

Facility DEC ID: 7312400575

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 7-3124-00575/00004
Effective Date:

Expiration Date:

Permit Issued To: MICRON NEW YORK SEMICONDUCTOR MANUFACTURING LLC
8000 S FEDERAL WAY
BOISE, ID 83716

Contact: Scott Gatzmeier
8000 S Federal Way
Boise, ID 83716
(203) 363-4026

Facility: MICRON NEW YORK SEMICONDUCTOR MANUFACTURING LLC
5171 RTE 31
Clay, NY 13041

Contact: Scott Gatzmeier
8000 S Federal Way
Boise, ID 83716
(203) 363-4026

Description:

Micron New York Semiconductor Manufacturing LLC (Micron), a Delaware limited liability company (LLC) and wholly owned subsidiary of Micron Technology, Inc., is proposing to construct a semiconductor manufacturing campus in the Town of Clay, New York, at the White Pine Commerce Park (WPCP), an approximately 1,400-acre industrial park.

The current facility will consist of two semiconductor fabrication units. Fab 1 and Fab 2 will manufacture semiconductors and other devices on silicon-based wafers. To remain competitive and meet market demands, Micron will constantly adapt to changing product mix, architecture, and functionality. Both Fab 1 and Fab 2 will generally consist of the following operations which allow independent operation of either fab:

- A main production cleanroom space of approximately 600,000 square feet (sq. ft.) that includes a mix of process tools;
- A sub-fab area that prepares and stores raw materials (e.g., process gases, chemical mixtures/slurries in the liquid state, etc.) used in the fab buildings;
- Support buildings storing bulk raw materials and preparing raw materials that are transferred to the fab or sub-fab;
- A central utilities building;
- Bulk gas storage yards;
- Ancillary support equipment including cooling towers and emergency generators; and,
- Wastewater treatment plant (WWTP) operations.

This permit is dedicated to the memory of Brian S. Noel, P.E.

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

Permit Administrator: KEVIN M BALDUZZI
 NYSDEC - REGION 7
 5786 Widewaters Pkwy
 SYRACUSE, NY 13214-1867

Authorized Signature: _____ Date: ____ / ____ / ____

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Notification of Other State Permittee Obligations**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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DEC GENERAL CONDITIONS****** General Provisions ******

**For the purpose of your Title V permit, the following section contains
state-only enforceable terms and conditions.**

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

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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: Project mitigation condition****Applicable State Requirement: ECL 75-0107 (1)****Item 5.1:**

Pursuant to Section 7(2) of the Climate Leadership and Community Protection Act, Chapter 106 of the laws of 2019 (CLCPA), the facility owner or operator shall complete the following to further mitigate greenhouse gas emissions from the project:

- i. Mitigation Project Funding. The facility owner or operator shall fund projects or programs to reduce greenhouse gas (GHG) emissions resulting from fabs 1 and 2 of the facility (Mitigation Projects). The facility owner or operator will allocate two million five hundred thousand dollars (\$2,500,000) for each fab under this permit to be used for Mitigation Projects.
- ii. Mitigation Plan. Within 365 days of the issuance of this permit, the facility owner or operator shall prepare, and submit to the Department for approval, a plan (Plan) describing the process that will be used to identify, evaluate, and select Mitigation Project(s) and the mechanism through which Mitigation Project funding will be allocated to Mitigation Project(s). The Plan shall include a discussion of the types of projects and programs that qualify for funding and the criteria that will be used to identify, evaluate, and select projects and programs to be funded, and an estimated proposed timeline for allocating Mitigation Project funding to such Mitigation Projects. The Plan should also provide details as to the proposed implementation timeline of any Mitigation Project(s), including details regarding the proposed timing of any construction necessary to achieve the Mitigation Project(s) (if relevant). The Department shall have final funding approval, including approval of the proposed implementation timeline, for all Mitigation Projects.
- iii. Mitigation Plan evaluation criteria. The facility owner or operator shall fund Mitigation Projects that have been evaluated as described in the approved Plan. To qualify for funding, all Mitigation Projects approved by the Department must result in a permanent, quantifiable GHG emissions reduction that is in addition to actions already required by law or regulation,

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including onsite Mitigation Projects to the extent feasible and otherwise offsite Mitigation Projects in the surrounding community.

iv. Payment Allocation Schedule. All mitigation funding for Fab 1 shall be allocated and associated Mitigation Projects implemented within two years of the start of full operations of Fab 1. Within sixty days of the start of construction of Fab 2, the facility owner or operator shall provide the Department with an updated plan to allocate an additional two million five hundred thousand dollars (\$2,500,000) for impacts associated with Fab 2. All mitigation funding for Fab 2 shall be allocated and associated Mitigation Projects implemented within two years of the start of full operations for Fab 2.

v. Plan Modifications. The facility owner or operator may apply to modify the approved Plan, and/or the proposed implementation schedule included in the approved Plan, at any point after initial approval and prior to the two-year deadline for full implementation of the associated Mitigation Project(s) as further described in Section iv.- All requests must include adequate justification for the proposed revision(s). Approval of any modification request is subject to the Department's discretion.

vi. Reporting. The facility owner or operator shall submit documentation to the Department, in a format to be determined acceptable by the Department, demonstrating the expenditures for Mitigation Projects in the facility's semiannual report until such funding obligation is met. Reports shall include, but not be limited to, project type, estimated GHG emission reductions, cost effectiveness, and timelines for completion.

vii. Violations. Failure to provide an approvable plan by the deadline, to implement the approved Plan (including meeting all timelines for Mitigation Projects described within the Plan), or allocate the required funding to achieve Mitigation Projects as discussed above pursuant to the Department approved plan shall be grounds for enforcement action and/or the suspension or revocation of this permit as described in 6 NYCRR Section 201-1.12 and 6 NYCRR Section 621.13.

Condition 6: Submission of application for permit modification or renewal-REGION 7**HEADQUARTERS****Applicable State Requirement: 6 NYCRR 621.6 (a)****Item 6.1:**

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 7 Headquarters
Division of Environmental Permits
5786 Widewaters Parkway
Syracuse, NY 13214-1867
(315) 426-7400

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DEC SPECIAL CONDITIONS

Condition 7: Future evaluation of fabs 3 and 4

Applicable State Requirement:

ECL 75-0107 (1)

Item 7.1:

The facility owner or operator must prepare and submit a CLCPA analysis as part of the Title V permit modification application addressing fabs 3 and 4. Such analysis shall discuss the feasibility of mitigation measures to reduce or eliminate GHG emissions from fabs 3 and 4. Any mitigation measures considered for fabs 3 and 4 must result in permanent, quantifiable GHG emissions reduction that is in addition to actions already required by law or regulation. The facility owner or operator may also propose additional mitigation measures at fabs 1 and 2 as part of the required analysis.

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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8000 S FEDERAL WAY
BOISE, ID 83716

Facility: MICRON NEW YORK SEMICONDUCTOR MANUFACTURING LLC
5171 RTE 31
Clay, NY 13041

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

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FEDERALLY ENFORCEABLE CONDITIONS

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**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)

Owners and/or operators of facilities having an issued Title V 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.

Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and

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reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V

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facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit

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is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

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)

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

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

**Condition 1: Acceptable Ambient Air Quality
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 200.6****Item 1.1:**

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

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contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c)

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (2)

Item 4.1:

The Compliance Certification activity will be performed for the Facility.

Item 4.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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The owner or operator of a Title V facility must keep all records used to determine compliance with any applicable limit(s) and/or monitoring requirement(s) at the facility (or other Department approved location) for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 5: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

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(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the

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monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 6: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;

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- whether compliance was continuous or intermittent;
- the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
- such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Air Compliance Branch
USEPA Region 2 DECA/ACB
290 Broadway, 21st Floor
New York, NY 10007

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 7 Headquarters

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5786 Widewaters Parkway
Syracuse, NY 13214-1867

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2026.
Subsequent reports are due on the same day each year

Condition 7: Recordkeeping requirements
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 7.1:

(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 8: Open Fires - Prohibitions
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 215.2

Item 8.1:

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

Item 8.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.

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- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

**Condition 9: Maintenance of Equipment
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 200.7

Item 9.1:

Any person who owns or operates an air contamination source which is equipped with an

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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.

Condition 10: Recycling and Salvage
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 10.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

**Condition 11: Prohibition of Reintroduction of Collected Contaminants to
the air**
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 11.1:

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.

Condition 12: Exempt Sources - Proof of Eligibility
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 12.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 13: Trivial Sources - Proof of Eligibility
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 13.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 14: Requirement to Provide Information
Effective for entire length of Permit

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Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (4)**Item 14.1:**

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 15: Right to Inspect
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (8)****Item 15.1:**

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 16: Required Emissions Tests
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 202-1.1****Item 16.1:**

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the Department may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 17: Accidental release provisions.

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Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 68

Item 17.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

Condition 18: Recycling and Emissions Reduction
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 82, Subpart F

Item 18.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 19: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 200.6

Item 19.1:

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

Emission Unit: 1-CMBOP
Process: EM1

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Emission Unit: 2-CMBOP
Process: EM2

Item 19.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

During each 24-hour period, thirty-eight (38) engines must be limited to no more than 4 hours of operation and, separately, thirty-four (34) engines must be limited to no more than 8 hours of operation. The remaining forty-six (46) engines are not subject to any operational hour limits. For each emergency engine subject to this condition, a record of the date and time of each hour of operation must be maintained for a minimum of five years.

The facility shall install a non-resettable hour-meter on each emergency engine to record the time operated and report the hours in each compliance report.

Operation consistent with this condition is necessary for compliance with the National Ambient Air Quality Standards.

Monitoring Frequency: Hourly when in use

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 20: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 200.6

Item 20.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

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Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-WWBIO
Process: WA2

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

Item 20.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must perform an initial commissioning test for total inorganic fluoride emissions from each exhaust type with the potential to emit inorganic fluorides.

Two representative sampling locations along each of the common exhaust headers must be tested from each of the following exhaust types:

1. Fab Acid
2. Fab CVD
3. HPM acid
4. WWT acid

Final sampling locations will be determined once final ductwork configurations have been provided. Testing must be conducted within 90 days of that fab reaching 90% of fab production utilization. DEC may require emissions testing at additional sampling locations should final ductwork configurations not meet the requirements of EPA Reference Test Methods 1-4 or additional locations tested to obtain a representative sample or emission rate from a given exhaust type.

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Subsequent testing for total inorganic fluorides shall be conducted within 180 days of implementation of any significant modification to the facility that increases the facility's potential to emit inorganic fluorides such that air dispersion modeling predicts offsite concentrations greater than 85% of any applicable standard in 6 NYCRR 257-4.

Reference Test Method: Method 13B or other DEC Approved Method
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 12 calendar month(s).

Condition 21: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 200.6

Item 21.1:

The Compliance Certification activity will be performed for the Facility.

Item 21.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

1. No later than one year after the effective date of permit issuance, the facility owner or operator must submit an updated dispersion modeling protocol for all perfluorinated compounds used as heat transfer fluids (HTF) at the facility to the Department for approval. The protocol must include proposed emission rates based on the facility's potential to emit that will be used for the modeling and outline all modeling procedures that will be followed.

2. Within 90 days of receiving the Department's approval of the modeling protocol, the facility owner or operator must submit a final dispersion modeling report comparing facility emissions to the annual guideline concentrations for perfluorinated compounds derived for this facility.

3. If maximum modeled offsite impacts of perfluorinated compounds exceed the annual guideline concentrations, the facility owner or operator must submit a plan to further mitigate such emissions (mitigation plan) to the Department for approval. For any proposed control

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technology, manufacturer design specification sheets and a schedule for installation must be provided within the plan. The plan must be submitted within 180 days of receiving approval of the final modeling report.

i. In addition, the facility owner or operator must apply for a permit modification to incorporate any additional controls identified in the mitigation plan into the Title V permit. The permit application must be submitted within 90 days of receiving final approval of the mitigation plan.

4. Any required control technologies must be installed and operational before the facility commences operations.

5. The facility owner or operator shall maintain records of actual emissions of perfluorinated compounds from HTF equipment leaks. The facility owner or operator shall submit, as part of each semiannual monitoring report, actual twelve-month rolling total emissions from perfluorinated compounds used as heat transfer fluids. These emissions must be calculated using HTF recharge rates or another method deemed acceptable to the Department. Emissions of perfluorinated compounds must remain below the emission rates used in the most recent compliant dispersion modeling demonstration. If actual perfluorinated compound emissions from heat transfer fluids exceed the modeled emission rates, the facility owner or operator must submit an updated modeling analysis within 30 days of the end of the current semiannual compliance reporting period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 22: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 200.6

Item 22.1:

The Compliance Certification activity will be performed for the Facility.

Item 22.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

This condition applies to engines that are permitted sources but will operate under the requirements applicable to exempt sources and the standard provisions for emergency engines. The combined rating of all emergency engines installed at the facility shall not exceed 199 MW as listed in manufacturer's specifications. The facility owner or operator shall maintain records necessary to demonstrate compliance with this limit and must provide such records to the Department upon request.

The facility must limit emergency engine operations to the following scenarios.

1. Loss of facility power
2. Emissions Testing (upon Department request)
3. Maintenance activities

In the event of a true emergency, the facility must use the emergency engines only to facilitate safe shutdown of the facility and protection of facility equipment.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 23: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 200.7

Item 23.1:

The Compliance Certification activity will be performed for the Facility.

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No later than 180 days after commencing operations, the owner or operator shall submit an Operation and Maintenance Plan to the Department for review and approval. The plan must be comprehensive and include each emissions control device type employed at the facility and the control device parameter monitoring requirements

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specified in various regulations throughout this permit.

The plan must be updated regularly as more process tools and control devices are brought online and upon Department request. A copy of the plan must be kept onsite and made available at the time of inspections.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 24: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-1.2 (a)

Item 24.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP Process: FA1	Emission Source: IMP01
Emission Unit: 1-FABOP Process: FA1	Emission Source: PLE01
Emission Unit: 1-FABOP Process: FA1	Emission Source: WET01
Emission Unit: 1-FABOP Process: FB1	Emission Source: CMP01
Emission Unit: 1-FABOP Process: FB1	Emission Source: PHO01
Emission Unit: 1-FABOP Process: FB1	Emission Source: WET01
Emission Unit: 1-FABOP Process: FC1	Emission Source: TFD01
Emission Unit: 1-FABOP Process: FS1	Emission Source: PHO01
Emission Unit: 1-FABOP Process: FS1	Emission Source: WET01

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Emission Unit: 2-FABOP
Process: FA2

Emission Source: IMP02

Emission Unit: 2-FABOP
Process: FA2

Emission Source: PLE02

Emission Unit: 2-FABOP
Process: FA2

Emission Source: WET02

Emission Unit: 2-FABOP
Process: FB2

Emission Source: CMP02

Emission Unit: 2-FABOP
Process: FB2

Emission Source: PHO02

Emission Unit: 2-FABOP
Process: FB2

Emission Source: WET02

Emission Unit: 2-FABOP
Process: FC2

Emission Source: TFD02

Emission Unit: 2-FABOP
Process: FS2

Emission Source: PHO02

Emission Unit: 2-FABOP
Process: FS2

Emission Source: WET02

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator employs several hundred process tools to facilitate the manufacturing of memory chips. To streamline permitting efforts, these tools have been assigned a single uniform emission source ID for each respective tool type in each Fab. Therefore, each permitting source ID with respect to process tools in emission units 1-FABOP and 2-FABOP represent potentially hundreds of tools.

To ensure that the operations at the facility remain consistent with the permit, the facility must maintain a logbook identifying each process tool represented by the respective permitting source ID. This logbook must specify a unique identifier for each process tool, the associated uniform source ID, the installation date, operation begin date, and removal date. Each process tool identifier must be unique to that process tool and not be reused in the event it is removed or replaced.

This logbook shall be updated each time a process tool is

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added or removed from the site. These records must be maintained at least five years and shall be made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 25: Emission Unit Definition
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 25.1:

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

Emission Unit: 1-ADMPR

Emission Unit Description:

Quality assurance laboratories in the administrative and "probe" buildings supporting Fab 1.

Building(s): ADMIN1
PROBE1

Item 25.2:

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

Emission Unit: 1-CMBOP

Emission Unit Description:

This emission unit consists of combustion equipment supporting Fab 1 operations. Equipment includes natural gas-fired water bath vaporizers, natural gas-fired boilers, diesel-fired emergency generators, and a diesel-fired fire pump.

Building(s): CUB1
MPH1
PROBE1

Item 25.3:

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

Emission Unit: 1-FABOP

Emission Unit Description:

Process operations associated with semiconductor manufacturing in Fab 1. Includes process tools, process equipment exhaust conditioners (PEECs), point-of-use (POU) control devices, general fab exhaust, and centralized control devices - acid gas scrubbers, regenerative catalytic systems for greenhouse gas abatement, ionizing wet scrubbers capable of scrubbing nitrogen dioxide, caustic gas scrubbers, and rotor-concentrator thermal oxidizers.

Building(s): FAB1

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Item 25.4:

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

Emission Unit: 1-FUGEM

Emission Unit Description:

Facility Fab 1 fugitive emissions including roadways and circuit breakers containing SF6.

Item 25.5:

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

Emission Unit: 1-HPMCU

Emission Unit Description:

Storage, waste treatment, and cooling towers in the hazardous process material (HPM) buildings and central utilities building (CUB1) supporting Fab 1

Building(s): CUB1
HPM1-N
HPM1-S

Item 25.6:

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

Emission Unit: 1-WWBIO

Emission Unit Description:

Wastewater treatment processes and material storage in the WWT and BIO buildings supporting Fab 1.

Building(s): BIO1
WWT1

Item 25.7:

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

Emission Unit: 2-ADMPR

Emission Unit Description:

Quality assurance laboratories in the administrative and "probe" buildings supporting Fab 2.

Building(s): ADMIN2
PROBE2

Item 25.8:

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

Emission Unit: 2-CMBOP

Emission Unit Description:

This emission unit consists of combustion equipment supporting Fab 2 operations. Equipment includes natural gas-fired boilers, natural gas-fired water bath vaporizers (WBV), and diesel-fired emergency generators.

Building(s): CUB2
PROBE2

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Item 25.9:

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

Emission Unit: 2-FABOP

Emission Unit Description:

Process operations associated with semiconductor manufacturing in Fab 2. Includes process tools, process equipment exhaust conditioners (PEECs), point-of-use (POU) control devices, general fab exhaust, and centralized control devices - acid gas scrubbers, regenerative catalytic systems for greenhouse gas abatement, ionizing wet scrubbers capable of scrubbing nitrogen dioxide, caustic gas scrubbers, and rotor-concentrator thermal oxidizers.

Building(s): FAB2

Item 25.10:

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

Emission Unit: 2-FUGEM

Emission Unit Description:

Facility Fab 2 fugitive emissions including roadways and circuit breakers containing SF6.

Item 25.11:

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

Emission Unit: 2-HPMCU

Emission Unit Description:

Storage, waste treatment, and cooling towers in the hazardous process material (HPM) buildings and central utilities building (CUB2) supporting Fab 2

Building(s): CUB2
HPM2-N
HPM2-S

Item 25.12:

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

Emission Unit: 2-WWBIO

Emission Unit Description:

Wastewater treatment processes and material storage in the WWT and BIO buildings supporting Fab 2.

Building(s): BIO2
WWT2

Condition 26: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 26.1:

The Compliance Certification activity will be performed for the facility:

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The Compliance Certification applies to:

Emission Unit: 1-CMBOP
Process: BL1

Emission Unit: 2-CMBOP
Process: BL2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The facility owner or operator shall restrict the operation of each of the natural gas-fired boilers on site to no more than 6000 hrs/yr.

The facility owner or operator must track each boiler's total hours of operation on a 12-month rolling total basis to demonstrate compliance with this limit. Reports shall be submitted semi-annually, in a format acceptable to the Department, which document that operation over any consecutive 12-month period was below 6000 hours.

Records for demonstration of compliance with this limit shall be maintained on site for five years. Operation consistent with this condition is necessary for compliance with several regulations including the National Ambient Air Quality Standards, NO_x LAER, VOC LAER, CO BACT, CO₂e BACT and PM BACT.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 6000 hours

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 27: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 27.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

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Emission Unit: 1-CMBOP
Process: WV1

Emission Unit: 2-CMBOP
Process: WV2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The facility owner or operator shall restrict the operation of all of water bath vaporizers (WBV) on site to no more than 8000 hrs/yr. The facility shall operate no more than four (4) WBV at any given time.

The facility owner or operator must track the total hours of operation of each WBV on a 12-month rolling total basis to demonstrate compliance with this limit. Reports shall be submitted semi-annually, in a format acceptable to the Department, which document that total operation over any consecutive 12-month period was below 8000 hours.

Records for demonstration of compliance with this limit shall be maintained on site for five years. Operation consistent with this condition is necessary for compliance with several regulations including the National Ambient Air Quality Standards, NO_x LAER, VOC LAER, CO BACT, CO₂e BACT and PM BACT.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 8000 hours

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 28: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 28.1:

The Compliance Certification activity will be performed for the Facility.

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Regulated Contaminant(s):

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

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility owner or operator shall restrict the operation of each emergency engine on site to no more than 100 hrs/yr.

The facility owner or operator must track the total hours of operation of each emergency engine on a 12-month rolling total basis to demonstrate compliance with this limit. Reports will be submitted semi-annually, in a format acceptable to the Department, which document that operation over any consecutive 12-month period was below 100 hours.

Records for demonstration of compliance with this limit shall be maintained on site for five years. Operation consistent with this condition is necessary for compliance with several regulations including the National Ambient Air Quality Standards, NOx LAER, VOC LAER, CO BACT, CO₂e BACT and PM BACT.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 100 hours

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 29: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 29.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: WV2

Regulated Contaminant(s):

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

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility owner or operator shall restrict the hours of operation of each water bath vaporizer (WBV) to no more than 2000 hrs/yr.

The facility owner or operator must track the total hours of operation of each WBV on a 12-month rolling total basis to demonstrate compliance with this limit. Reports shall be submitted semi-annually, in a format acceptable to the Department, which documents that total operation of each individual WBV over any consecutive 12-month period was below 2000 hours.

Records for demonstration of compliance with this limit shall be maintained on site for five years.

Operation consistent with this condition is necessary for compliance with several regulations including the National Ambient Air Quality Standards

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 2000 hours

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 30: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-ADMPR
Process: AA1

Emission Unit: 1-ADMPR
Process: AS1

Emission Unit: 1-FABOP
Process: FA1

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Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: CA1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 2-ADMPR
Process: AA2

Emission Unit: 2-ADMPR
Process: AS2

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: CA2

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Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility's Fab, HPM and CUB buildings operate acid, ammonia, chemical vapor deposition (CVD), and solvent exhaust headers which contain redundant units which exhaust in parallel. The facility's Probe buildings operate acid and solvent exhaust headers which contain redundant units which exhaust in parallel.

During normal operations each exhaust header is expected to contain redundant stacks which will be physically blocked, preventing air flow. The number of active and redundant stacks, per building, for each exhaust header upon full operation is as follows, except during periods of startup, shutdown, and maintenance:

Fab acid exhaust: 36 active, 4 redundant
Fab ammonia exhaust: 12 active, 4 redundant
Fab CVD exhaust: 12 active, 4 redundant
Fab solvent exhaust: 32 active, 4 redundant
CUB acid exhaust: 3 active, 1 redundant
HPM acid exhaust: 3 active, 1 redundant
HPM ammonia exhaust: 3 active, 1 redundant
HPM solvent exhaust: 6 active, 2 redundant
Probe acid exhaust: 1 active, 1 redundant
Probe solvent exhaust: 1 active, 1 redundant

The facility owner or operator must maintain a continuous record through a continuous monitor demonstrating the appropriate number of units are operated at any given time, in accordance with this permit condition. Until each

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fab is fully operational, the facility will report the number of currently operational and redundant stacks installed to date on each exhaust during each semiannual report. The facility must retain these records for a minimum of five years and make them available to the Department upon request.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 31: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility operates numerous Process Equipment Exhaust Conditioners (PEEC) units. PEECs are considered exhaust conditioners, not air pollution control devices, because they are installed to address the safety and facility integrity issues that occur when pyrophoric, flammable, and/or incompatible materials are present in a vent stream. With regards to permitting, these units are considered an integrated part of the process tool emission source rather than control devices.

Although PEEC units have been established as a part of the process, the facility has asserted up to 99% control of many contaminants being ducted through these units. Therefore, the facility must maintain the units 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.

The facility must maintain records consistent with demonstrating proper maintenance and operation of the PEEC units on site for a minimum of five years and must make them available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

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Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 32: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition provides terms and requirements for an environmental monitor(s) for the Micron Semiconductor facility located in Clay, NY. As authorized under ECL section 3-0301 and in accordance with Commissioner's Policy 64: Environmental Monitoring Services (CP-64) the Department reserves the right to implement an onsite environmental monitor at facilities, including but not limited to, where the compliance history or past practices of the regulated entity over the past period of five years reveals an inability or unwillingness to comply with environmental laws and regulations or has included a conviction of an environmental crime or other criminal environmental violation, execution of an order on consent or consent decree, or the issuance of a Commissioner's decision or judgment finding one or more violations.

Monitoring Frequency: UPON REQUEST OF REGULATORY AGENCY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 33: Progress Reports Due Semiannually
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 33.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

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(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 34: Operational Flexibility
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (f)

Item 34.1:

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

Condition 35: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (f) (2)

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility Protocol

I. Protocol Objective

The objective of this condition is to enable operational flexibility (OpFlex) at the facility by building the capability to make certain changes pursuant to this protocol into the Title V permit. As provided under 6 NYCRR Part 201-6.4(f), changes made under an approved protocol are not subject to the Title V permit modification provisions under 6 NYCRR Section 201-6.6 unless required by the Department pursuant to 201-6.4(f)(4).

II. Protocol

A. Criteria

Changes reviewed under this protocol shall be evaluated in accordance with the following criteria:

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1. All underlying federal and state requirements applicable to the new or changed operation or emission source must be included in the Title V permit. Existing permit conditions may be amended to reference or include the new or changed operation or emission source and any related information, and/or, subject to the Department's approval, new conditions proposed, to provide the appropriate monitoring parameters.
2. Any new or changed emission source shall not be part of a source project that results in a significant net emission increase that exceeds the New Source Review (NSR) thresholds identified in 6 NYCRR Part 231.
3. The facility owner or operator shall not use the protocol to make physical changes or changes in the method of operation of existing emissions sources that would require a new or modified federally enforceable emissions cap or other case-by-case determination. Such changes must be addressed via the significant permit modification provisions in 6 NYCRR Section 201-6.6.
4. Notification for contaminants subject to the air dispersion modeling requirements of 6 NYCRR Part 212 and not listed in the DAR-1 guidance document shall include requirements in Section II.B.4 below if any of the following conditions are met:
 - a. The contaminant's toxicity is determined to be high according to the criteria outlined in the DAR-1 guidance document or assigned high by default due to no available scientific information (default de minimis annual guideline concentration (AGC) of 2×10^{-5} ug/m³ is assigned); or
 - b. The contaminant's toxicity is determined to be low or moderate according to the criteria outlined in the DAR-1 guidance document and the predicted offsite concentration is above 0.03 µg/m³ (30% of the de minimis AGC of 0.1 µg/m³)
5. Notification for contaminants subject to the air dispersion modeling requirements of 6 NYCRR Part 212 listed in the DAR-1 guidance document shall include requirements in Section II.B.4 below if the predicted offsite concentrations are above 30% of the applicable AGC.
6. For contaminants where an AGC was derived for the Micron project, the interim AGC shall be used for the air dispersion modeling requirements of 6 NYCRR Part 212. Notification for contaminants shall include Section II.B.4 below if the predicted offsite concentrations are above 30% of the applicable AGC.

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7. Notifications for contaminants where the predicted offsite concentrations are above the short-term guideline concentration (SGC) either listed in the DAR-1 guidance document or derived for the project shall include requirements in Section II.B.4 below.

B. Procedure

1. All changes provided for under 6 NYCRR Part 201-6.4(f) require notification according to this protocol at least fifteen (15) calendar days prior to such change.

2. The facility owner or operator shall submit written notification of each change to the Department either electronically or by letter at least fifteen (15) calendar days in advance of making the proposed change. The facility owner or operator may include more than one proposed change in each notification submitted.

3. All notifications made in accordance with this protocol must include the following information:

a. Identification of the Title V permit emission unit, process(es), emission source(s) and emission point(s) affected by the proposed change with applicable revisions to the Emission Unit structure;

b. Description of the proposed change, including operating parameters affected;

c. Identification and description of emissions control device or technology that will be used; and

d. Documentation of the project's, or emission source's, compliance with respect to all applicable state and/or federal requirements, including the following:

i. Calculations demonstrating the emission rate potential and maximum projected annual actual emission rates for all contaminants affected by the change;

ii. Documentation demonstrating that the change is not subject to the New Source Review requirements described in 6 NYCRR Part 231;

iii. Identification and evaluation of all state and federal regulations applicable to the proposed change;

iv. A description of any additional

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operating and recordkeeping procedures necessary to ensure compliance with all applicable requirements; and

v. Any other relevant information used for the evaluation of the proposed change under this protocol.

4. The following additional information must be provided for changes subject to air dispersion modeling under 6 NYCRR Parts 212 or 257, unless the change is below the thresholds in II.A.4 through II.A.7 above:

i. Results of dispersion modeling conducted pursuant to the most recent approved modeling protocol and the DAR-10 guidance document that demonstrate the maximum predicted offsite concentrations are less than the applicable SGC, AGC, and/or meet the State Standards set forth in 6 NYCRR Part 257, for each air contaminant associated with the change. Modeling conducted pursuant to this provision shall include existing facility-wide emissions of each air contaminant associated with the change (including existing analogous air contaminants) plus the additional emissions resulting from the change.

ii. A proposed environmental rating for each contaminant associated with the change and a description of the methods that will be used to comply with the applicable portions of 6 NYCRR Part 212 for the environmental rating and emission rate potential of each contaminant.

iii. Any other relevant information used for the evaluation of the proposed project or emission source under the Protocol.

iv. Changes involving air contaminants without an SGC or AGC listed in the DAR-1 guidance document, or which did not have an AGC derived for the Micron project, shall be evaluated as follows:

1. The Chemical Name and Chemical Abstract Series Number (CAS Number) for each such compound and a request for the Department to develop appropriate guideline concentrations.

2. If the projected annual actual emissions are greater than 0.1 pounds per year (or the mass emission limit in Table 2 of Part 212-2.2) for high toxicity air contaminants or greater than 100 lb/yr for all other air contaminants, then the facility owner or operator shall perform dispersion modeling for that subset

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of contaminants pursuant to the most recent approved modeling protocol and the DAR-10 guidance document. The purpose of this modeling is to demonstrate that the maximum predicted offsite concentrations of each air contaminant associated with the change with annual emissions exceeding its respective mass emission limit are less than the de minimis AGC values of $2.0 \times 10^{-5} \mu\text{g}/\text{m}^3$ for high toxicity air contaminants and $0.1 \mu\text{g}/\text{m}^3$ for all other compounds, as specified in the DAR-1 guidance document.

3. The facility owner or operator may propose an interim SGC and/or AGC as part of the notification required by Item B.1 of this protocol and provide modeling results demonstrating compliance with that value for the Department's consideration and subsequent approval. Such SGC and/or AGC values shall be derived using the procedures outlined in the DAR-1 guidance document. In cases where the SGC and/or AGC for the proposed air contaminant were developed using analogous existing permitted air contaminant(s), facility-wide emissions of the analogous contaminant(s) plus the additional emissions resulting from the change shall be modeled. Unless the Department provides a revised SGC and/or AGC within 15 days of receipt of the notification, the proposed SGC and/or AGC (or default de minimis value, as applicable) is considered approved.

f. Any other relevant information used for the evaluation of the proposed project or emission source under the Protocol.

C. Review and Approval of Changes

1. The Department shall respond to the facility owner or operator in writing with a determination within 15 days of receipt of the notification required by Section II.B.1 of this protocol. The permittee is authorized to proceed with the proposed change if a written determination from the Department is not provided within 15 days of receipt of the notification.

2. The Department reserves the right to require a permit modification to impose applicable requirements or permit conditions if it determines that changes proposed do not meet the criteria described in Section II.A above, or that the changes may have a significant air quality impact. In such cases, the Department shall require that the facility owner or operator not undertake the proposed changes until a permit modification is issued. The Department's determination shall include a listing of any additional information necessary to complete its review

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and approval of the proposed changes.

**D. Additional Compliance Obligations for Changes Made
Under this Protocol**

1. Upon commencement of the change, the facility owner or operator shall comply with all applicable requirements and permit conditions, including any amended or proposed in accordance with II.A.1 above.

2. The facility owner or operator shall include each change made pursuant to this protocol in the next application for permit modification or renewal, whichever is first. Changes made pursuant to this protocol are not subject to the permit shield provisions described in 6 NYCRR 201-6.4(g) until they are incorporated into the Title V permit.

3. The facility owner or operator shall maintain a record of each change made pursuant to this protocol at the facility for a period of at least five years from the date of the record and shall make such records available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 36: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 202-1

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP

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Process: FG2

Emission Unit: 2-FABOP

Process: FS2

Regulated Contaminant(s):

CAS No: 0NY514-00-0 ORGANIC HAPS

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For each exhaust for which organic HAP emissions are expected, the facility owner or operator shall conduct initial compliance testing from two representative sampling locations along each of the common exhaust headers within a fab within 90 days of that fab reaching 90% of fab production utilization. Final location of sampling points to be tested will be determined once final ductwork configurations are provided. DEC may require emissions testing at additional sampling locations should final ductwork configurations not meet the requirements of EPA Reference Test Methods 1-4 or additional locations tested to obtain a representative sample or emission rate from a given exhaust type.

For each exhaust for which organic HAP were detected and inorganic HAP were not detected in the required initial performance test, a subsequent test must be completed on one representative sampling location along each of the common exhaust headers once per permit term unless DEC has required testing at additional locations. A testing protocol must be submitted to DEC for review and approval no later than 90 days before the initial emissions testing and 60 days before subsequent testing.

If future facility permit applications or emissions calculations indicate organic HAPs are predicted in detectable concentrations in additional exhaust types, the facility may be required to perform additional emissions testing at a timeframe agreeable to the Department.

Upper Permit Limit: 20 parts per million (by volume)

Reference Test Method: DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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Condition 37: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 202-1

Item 37.1:

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

Emission Unit: 1-FABOP
 Process: FB1

Emission Unit: 1-FABOP
 Process: FG1

Emission Unit: 1-FABOP
 Process: FS1

Emission Unit: 2-FABOP
 Process: FB2

Emission Unit: 2-FABOP
 Process: FG2

Emission Unit: 2-FABOP
 Process: FS2

Regulated Contaminant(s):
 CAS No: 0NY100-00-0 TOTAL HAP

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For each exhaust for which total HAP emissions are expected (i.e. exhausts for which both organic and inorganic HAP are present), the facility owner or operator shall conduct initial compliance testing from two representative sampling locations along each of the common exhaust headers within a fab within 90 days of that fab reaching 90% of fab production utilization. Final location of sampling points to be tested will be determined once final ductwork configurations are provided. DEC may require emissions testing at additional sampling locations should final ductwork configurations not meet the requirements of EPA Reference Test Methods 1-4 or additional locations tested to obtain a representative sample or emission rate from a given exhaust type.

For each exhaust type for which total HAP were detected

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during the required initial performance test, a subsequent test must be completed on one representative sampling location along each of the common exhaust headers once per permit term unless DEC has required testing at additional locations. A testing protocol must be submitted to the Department for review and approval no later than 90 days before the initial emissions testing and 60 days before subsequent testing.

If future facility permit applications or emissions calculations indicate total HAPs are predicted in detectable concentrations in additional exhaust types, the facility may be required to perform additional emissions testing at a timeframe agreeable to the Department.

Upper Permit Limit: 14.22 parts per million (by volume)

Reference Test Method: DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 38: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 202-1

Item 38.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU

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Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Regulated Contaminant(s):
CAS No: 0NY515-00-0 INORGANIC HAPS

Item 38.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For each exhaust for which inorganic HAP emissions are expected, the facility owner or operator shall conduct initial compliance testing from two representative sampling locations along each of the common exhaust headers within a fab within 90 days of that fab reaching 90% of fab production utilization. Final location of sampling points to be tested will be determined once final ductwork configurations are provided. DEC may require emissions testing at additional sampling locations should final ductwork configurations not meet the requirements of EPA Reference Test Methods 1-4 or additional locations tested to obtain a representative sample or emission rate from a given exhaust type.

For each exhaust type for which inorganic HAP were detected during the required initial performance test, a subsequent test must be completed on one representative sampling location along each of the common exhaust headers once per permit term unless DEC has required testing at additional locations. A testing protocol must be submitted to DEC for review and approval no later than 90 days before the initial emissions testing and 60 days before subsequent testing.

If future facility permit applications or emissions calculations indicate inorganic HAPs are predicted in detectable concentrations in additional exhaust types, the facility may be required to perform additional emissions testing at a timeframe agreeable to DEC.

Upper Permit Limit: 0.42 parts per million (by volume)

Reference Test Method: DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 39: Statement dates for emissions statements.
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 202-2.4 (a) (3)**Item 39.1:**

This facility is required to submit an annual emission statement electronically and these emissions statements must be submitted to the department as per the following schedule:

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- (i) March 15th of each year for facilities with three or fewer processes listed in their Title V permit:
- (ii) March 31st of each year for facilities with four to six processes listed in their Title V permit:
- (iii) April 15th of each year for facilities with 7 to 12 processes listed in their Title V permit:
- (iv) April 30th of each year for facilities with 13 or more processes listed in their Title V permit.

Condition 40: Visible Emissions Limited
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 211.2

Item 40.1:

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 41: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 212-1.5 (d)

Item 41.1:

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

Emission Unit: 1-FABOP
 Process: FC1

Emission Unit: 2-FABOP
 Process: FC2

Regulated Contaminant(s):
 CAS No: 010024-97-2 NITROUS OXIDE

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Process emissions from thin films process tools and PEECs (routed to the atmosphere through the CVD stacks) are 11.8 lbs/hr of nitrous oxide. Nitrous oxide has been assigned an Environmental Rating of “B”. For B-rated air contaminants with an ERP greater than or equal to 10

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lbs/hour and up to 25 lbs/hour, the facility would normally be expected to meet the 90 percent (%) air cleaning requirement as specified under 6 NYCRR 212-2.3(b), Table 4. The facility owner or operator has instead opted to complete a Toxic Best Available Control Technology (T-BACT) analysis.

The facility owner or operator has submitted a T-BACT analysis per the procedure under 6 NYCRR 212-1.5(d) demonstrating that meeting the required degree of air cleaning is technically infeasible. The Department has reviewed the T-BACT analysis and determined that based on the parameters under 212-1.2(b)(20), the facility owner or operator is implementing the best available control technology for the process.

To reduce nitrous oxide emissions and impacts and meet T-BACT requirements, the facility owner or operator must comply with the limits, monitoring, mitigation, maintenance, and recordkeeping requirements consistent with the analysis and the Department's determination.

The T-BACT determination must be reevaluated once per permit term or prior to any changes that could significantly affect the previously approved T-BACT determination.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

**Condition 42: Maintain all process emission sources, including the associated air pollution control and monitoring equipment
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 212-1.5 (g)

Item 42.1:

At all times, the facility owner or operator must operate and maintain all process emission sources, including the associated air pollution control and monitoring equipment, in a manner consistent with safety, good air pollution control practices, good engineering practices and manufacturers' recommendations for minimizing emissions.

**Condition 43: Compliance Certification
Effective for entire length of Permit**

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

Item 43.1:

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The Compliance Certification activity will be performed for the Facility.

Item 43.2:

Compliance Certification 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: EPA RM 9

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 44: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b) (5)

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FS2

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous monitors and data recorders are required to measure combustion and outlet temperatures and any other monitoring parameter required to ensure proper operation of each thermal or catalytic oxidizer. Continuous monitors

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must be operated at all times when the associated emission control equipment is operating except during any quality assurance (QA) and routine maintenance activities. Each monitor must be operated according to a quality assurance program approved by the Department. The facility shall maintain an up-to-date copy of the quality assurance program and make it available to the department upon request. Alternative monitoring methods may be employed subject to Department approval.

The facility shall keep record of the date, time and duration of all periods the control devices were not operating consistent with the QA plan including periods of startup/shutdown or malfunction. These records must be made available to the Department upon request and maintained for a minimum of five years.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 45: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-WWBIO
Process: WB2

Regulated Contaminant(s):
CAS No: 000074-86-2 ACETYLENE
CAS No: 003458-72-8 TRIAMMONIUM CITRATE
CAS No: 007664-41-7 AMMONIA

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

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Monitoring Description:

Processes FB1, FB2, WB1, and WB2 emit the following analogous compounds referred to herein as the ammonia group:

(CAS #: 007664-41-7) Ammonia

(CAS #: 000074-86-2) Acetylene

(CAS #: 003458-72-8) Triammonium Citrate

These contaminants have been assigned an Environmental Rating of “C” by the Department based on available information. The facility owner or operator is required to meet at least 75% control of the ammonia group under 212-2.3(b). To demonstrate compliance with this control requirement, the facility owner or operator shall install ammonia scrubbers, and shall perform initial stack tests for total ammonia group emissions from each exhaust with the potential to emit ammonia group compounds as follows.

1. Fab Ammonia – Test two representative locations along each common header within a fab within 90 days of the fab reaching 90% of fab production utilization. The locations of sampling points will be determined once final ductwork configurations are provided.

2. WWT Ammonia – Test two representative locations from each building of its corresponding fab, within 90 days of the corresponding fab reaching 90% of fab product utilization. The location of sampling points will be determined once final ductwork configurations are provided.

Subsequent testing for the ammonia group shall be conducted once per permit term at one representative location per exhaust type unless DEC has required sampling at additional locations.

At least 60 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Records of completed tests and results and the test protocols must be maintained for at least five years.

Parameter Monitored: AMMONIA

Lower Permit Limit: 75 percent degree of air cleaning or greater

Reference Test Method: EPA Reference Test Method or Equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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Averaging Method: Arithmetic average of stack test runs
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 46.1:

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

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: BG1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HS3

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Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: BG2

Emission Unit: 2-WWBIO
Process: WS2

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Processes FA1, FA2, FB1, FB2, FC1, FC2, FS1, FS2, HS1, HS2, HS3, HS4, WS1, WS2, BG1 and BG2 emit solid particulate contaminants subject to Part 212. At the time of this permit, the following contaminants that are classified as solid particulates have been found to be emitted from the processes:

(CAS #: 001344-28-1) Aluminum oxide
(CAS #: 001303-86-2) Boron Trioxide
(CAS #: 012055-23-1) Hafnium Dioxide
(CAS #: 007664-38-2) Phosphoric Acid
(CAS #: 001314-56-3) Phosphorus Pentoxide
(CAS #: 007631-86-9) Silicon Dioxide
(CAS #: 000373-68-2) Tetramethylammonium fluoride tetrahydrate
(CAS #: 000075-59-2) Tetramethylammonium Hydroxide
(CAS #: 013463-67-7) Titanium Dioxide
(CAS #: 001314-35-8) Tungsten Trioxide
(CAS #: 001314-23-4) Zirconium Oxide
(CAS #: 000078-66-0)
3,6-Dimethyloct-4-Yne-3,6-Diol
(CAS #: 000142-73-4) Glycine, N-(Carboxymethyl)
(CAS #: 007664-93-9) Sulfuric Acid
(CAS #: 003144-16-9) 2-Oxobornane-10-Sulphonic Acid

The solid particulates listed above have been assigned an Environmental Rating of “B” by the Department based on available information. The facility owner or operator is required to limit the emissions of all solid particulate contaminants to no more than 0.050 grains per dry standard cubic foot of exhaust gas on a dry basis.

To demonstrate compliance with this requirement, the facility owner or operator shall perform initial stack

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tests for particulate matter (PM) emissions from each exhaust with the potential to emit process PM subject to Part 212 as follows:

1. Fab Acid – Test two representative locations along each exhaust header within a fab within 90 days of that fab reaching 90% of fab product utilization. Final location of sampling points will be determined once final ductwork configurations are provided.
2. Fab Ammonia – Test two representative locations along each exhaust header within a fab within 90 days of that fab reaching 90% of fab product utilization. Final location of sampling points will be determined once final ductwork configurations are provided.
3. Fab CVD - Test two representative locations along each exhaust header within a fab within 90 days of that fab reaching 90% of fab product utilization. Final location of sampling points will be determined once final ductwork configurations are provided.
4. Fab Solvent - Test two representative locations along each exhaust header within a fab within 90 days of that fab reaching 90% of fab product utilization. Final location of sampling points will be determined once final ductwork configurations are provided.
5. HPM Solvent – Test two representative locations from each building within 90 days after all tanks containing inorganic fluorides have been initially filled. Final sampling locations will be determined once final ductwork configurations are provided.
6. Bio General - Test two representative locations from each building within 90 days of its corresponding fab reaching 90% of fab production utilization. Final sampling locations will be determined once final ductwork configurations are provided.
7. WWT Solvent - Test two representative locations from each building within 90 days of its corresponding fab reaching 90% of fab production utilization. Final sampling locations will be determined once final ductwork configurations are provided.

Subsequent testing for process particulates must be conducted once per permit term on one representative location for each of the above exhaust types.

At least 60 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s). Records of completed tests and results and the test protocols must be maintained for at least five years.

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Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: EPA Reference Test Method or Equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 47: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 225-1.2 (d)****Item 47.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: DFP

Emission Unit: 1-CMBOP

Process: EM1

Emission Unit: 2-CMBOP

Process: EM2

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

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

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 48: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 226-2.3 (a)

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a facility subject to this
Subpart shall not conduct any cleaning unless the
following control measures are used:

- (1) use closed, non-leaking containers to store or dispose
of cloth or other absorbent cleaning tools impregnated
with industrial cleaning solvents when not in use;
- (2) minimize air circulation around cleaning
operations;
- (3) properly dispose of used cleaning solvents and
tools;
- (4) implement equipment practices that minimize emissions,
such as maintaining of cleaning equipment and repair of
solvent leaks

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 49: Compliance Certification
Effective for entire length of Permit

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

Item 49.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Emission Unit: 2-CMBOP

Item 49.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation must perform an annual tune-up on each emission source subject to 6 NYCRR Subpart 227-1. Records of the tune-up shall be maintained at the facility or at a Department approved alternative location for a minimum of five years. The records shall, at a minimum, include the date the tune-up(s) occurred and the details of the tune-up procedures for each emission source.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 50: Compliance Certification
Effective for entire length of Permit

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

Item 50.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP
Process: BL1

Emission Unit: 1-CMBOP
Process: WV1

Emission Unit: 2-CMBOP
Process: BL2

Emission Unit: 2-CMBOP
Process: WV2

Item 50.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a stationary combustion installation at a Title V facility subject to this Subpart shall operate an emission source which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The owner or operator shall conduct a Method 9 test annually. A report of the results of the

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test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

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

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 51: VOL storage tanks from 10000 - 20000 gallons
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 229.3 (e) (2) (iv)

Item 51.1:

Volatile organic liquid tanks with a capacity greater than or equal to 10,000 gallons but less than 20,000 gallons must be equipped with submerged fill.

Condition 52: VOL storage tanks less than 10000 gallons
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 229.3 (e) (2) (v)

Item 52.1:

Volatile organic liquid tanks with a capacity of less than 10,000 gallons must be equipped with a conservation vent.

Condition 53: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-3.2

Item 53.1:

The Compliance Certification activity will be performed for the Facility.

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is a Prevention of Significant Deterioration (PSD) major source of Carbon Monoxide (CO), Greenhouse Gases (GHG), and Particulate Matter (PM). The facility is a Non-attainment New Source Review (NNSR) major source of Oxides of Nitrogen (NO_x), and Volatile Organic Compounds (VOC). The facility is also a major source of Individual

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Hazardous Air Pollutants (HAP).

This Title V permit covers fabs 1 (EU: 1-FABOP) and 2 (EU: 2-FABOP). The facility owner or operator anticipates separately pursuing and permitting fabs 3 and 4 in the future.

The permitting of fabs 3 and 4 will take place at a later date, and will be evaluated with respect to 6 NYCRR 231-6 and 231-8 as a modification to an existing major facility under Prevention of Significant Deterioration PSD and NNSR.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 54: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 231-5

Item 54.1:

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

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

Regulated Contaminant(s):

Permit ID: 7-3124-00575/00004

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

Item 54.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Oxides of Nitrogen (NO_x) are limited to 357.2 tons per year for the combined emissions from sources associated with Fabs 1 and 2.

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 357.2 tons. Each semiannual report must include information that documents the NO_x emissions from each emission unit, including exempt activities. Each semiannual report must include information that documents the NO_x emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the NO_x emission limit. Any relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the NO_x emission limit in this condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the NO_x emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 357.2 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 55: Compliance Certification
Effective for entire length of Permit

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Applicable Federal Requirement: 6 NYCRR Subpart 231-5**Item 55.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

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

Item 55.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Volatile Organic Compounds (VOC) are limited to 205.7 tons per year for the combined emissions from sources associated with Fabs 1 and 2.

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 205.7 tons. Each semiannual report must include information that documents the VOC emissions from each emission unit, including

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exempt activities. Each semiannual report must include information that documents the VOC emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the VOC emission limit. Any relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the VOC emission limit in this condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the VOC emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: VOC

Upper Permit Limit: 205.7 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 56: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 56.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP

Process: FS1

Emission Unit: 2-FABOP

Process: FS2

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To ensure proper operation of each operational Fab rotor concentrator thermal oxidizer (RCTO), the minimum operating temperature shall be established upon startup in accordance with the manufacturer's specifications. The facility owner or operator shall monitor the temperature of each operational RCTO with a continuous monitor. The monitor shall be operated and maintained according to manufacturer's specifications via a permit modification prior to operation.

If the operational RCTO temperature falls below the stated limit for more than a 1-hr period, the facility owner or operator must take corrective action(s). Any deviation, the reason, and/or corrective actions taken, must be recorded and kept at the facility for at least five years.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1400 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 57: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-5.4****Item 57.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: BL1

Emission Unit: 1-CMBOP

Process: DFP

Emission Unit: 1-CMBOP

Process: EM1

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: BL2

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 2-CMBOP
Process: EM2

Emission Unit: 2-CMBOP
Process: WV2

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must implement good combustion and maintenance practices according to the manufacturer's recommendations for the boilers, water bath vaporizers, emergency diesel engines and the fire pump engine. This includes a combination of the following:

- Minimizing engine idle time at startup;
- Optimizing the air-fuel ratio;
- Maintaining proper insulation;
- Establishing proper combustion zone temperature control;

- Conducting operator training;
- Conducting periodic maintenance.

The facility owner or operator shall record the date when periodic maintenance was performed on the boilers, water bath vaporizers, emergency diesel engines and the fire pump engine.

This constitutes as NO_x LAER, VOC LAER, CO BACT, PM BACT, and CO₂e BACT.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 58: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 58.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-ADMPPR
Process: AA1

Emission Unit: 1-ADMPPR
Process: AS1

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 1-WWBIO
Process: WA1

Emission Source: WLB01

Emission Unit: 1-WWBIO
Process: WB1

Emission Source: WLB01

Emission Unit: 1-WWBIO
Process: WS1

Emission Source: WLB01

Emission Unit: 2-ADMPR
Process: AA2

Emission Unit: 2-ADMPR
Process: AS2

Emission Unit: 2-WWBIO
Process: WA2

Emission Source: WLB02

Emission Unit: 2-WWBIO
Process: WB2

Emission Source: WLB02

Emission Unit: 2-WWBIO
Process: WS2

Emission Source: WLB02

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility operates acid gas scrubbers and thermal oxidizers at its probe and WWT labs. VOC LAER for these sources have been determined to be good operating practices and maintenance procedures according to manufacturer's specification.

The facility owner or operator shall maintain records confirming that the maintenance has been conducted on these sources as per manufacturer's specification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 59: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 59.1:

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Facility DEC ID: 7312400575

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

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

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

Item 59.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility operates ammonia scrubbers to control ammonia-containing exhaust from its Fab and HPM buildings.

To ensure proper operation, the operational ammonia scrubbers' pressure drop range shall be established upon startup in accordance with the manufacturer's specifications. The facility owner or operator shall monitor the pressure drop of the operational ammonia scrubbers with a continuous monitor. The monitors shall be maintained according the manufacturer's specifications via a permit modification prior to operation.

If the ammonia scrubber pressure drop falls outside of the pressure drop range for more than a 1-hr period, the facility owner or operator must take corrective action(s). Any deviation, the reason, and/or corrective actions taken, must be recorded and kept at the facility for at least five years.

Parameter Monitored: PRESSURE DROP
Lower Permit Limit: 1.5 inches of water

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Facility DEC ID: 7312400575

Upper Permit Limit: 3.5 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 60: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-5.4****Item 60.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP

Process: FA1

Emission Source: PLE01

Emission Unit: 1-FABOP

Process: FS1

Emission Source: PHO01

Emission Unit: 1-FABOP

Process: FS1

Emission Source: WET01

Emission Unit: 2-FABOP

Process: FA2

Emission Source: PLE02

Emission Unit: 2-FABOP

Process: FS2

Emission Source: PHO02

Emission Unit: 2-FABOP

Process: FS2

Emission Source: WET02

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility operates process equipment exhaust conditioners (PEECs) at fab 1 and fab 2. NO_x LAER for the PEECs have been determined to be good operating practices and maintenance procedures according to manufacturer's specification.

The facility owner or operator shall maintain records confirming that the maintenance has been conducted on these sources as per manufacturer's specifications.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 61: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-5.4****Item 61.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-HPMCU

Process: HS1

Emission Unit: 1-HPMCU

Process: HS2

Emission Unit: 2-HPMCU

Process: HS3

Emission Unit: 2-HPMCU

Process: HS4

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 61.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To ensure proper operation of each operational HPM rotor concentrator thermal oxidizer (RCTO), the minimum operating temperature shall be established upon startup in accordance with the manufacturer's specifications. The facility owner or operator shall monitor the temperature of each operational RCTO with a continuous monitor. The monitor shall be operated and maintained according to manufacturer's specifications via a permit modification prior to operation.

If the operational RCTO temperature falls below the stated limit for more than a 1-hour period, the facility owner or operator must take corrective action(s). Any deviation, the reason, and/or corrective actions taken, must be recorded and kept at the facility for at least five years.

Parameter Monitored: TEMPERATURE

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Facility DEC ID: 7312400575

Lower Permit Limit: 1400 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 62: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 62.1:

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

Emission Unit: 1-CMBOP
Process: BL1

Emission Unit: 2-CMBOP
Process: BL2

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

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates six (6) natural gas fired-boilers.
Each boiler must meet a VOC LAER emission limit of 0.0017
lb/MMBtu.

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each boiler. The facility owner or operator is required to perform a compliance test on one (1) boiler per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

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Facility DEC ID: 7312400575

Parameter Monitored: VOC

Upper Permit Limit: 0.0017 pounds per million Btus

Reference Test Method: Method 25A or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 63: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-5.4****Item 63.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: WV2

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates eight (8) natural gas-fired water bath vaporizers (WBVs). Four (4) WBVs shall be operational upon startup. Four (4) WBVs shall be on standby. Each WBV must meet a VOC LAER emission limit of 0.0054 lb/MMBtu.

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each WBV. The facility owner or operator is required to perform a compliance test on two (2) WBVs per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit an electronic copy of the emission test report to the

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Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: VOC

Upper Permit Limit: 0.0054 pounds per million Btus

Reference Test Method: Method 25A or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 64: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 64.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: EM1

Emission Unit: 2-CMBOP

Process: EM2

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one hundred eighteen (118) diesel-fired emergency engines. Each engine must meet a VOC LAER emission limit of 0.19 g/kW-hr (Tier 4 Final Emission Standards), as guaranteed by a vendor or EPA certificate of conformity and achieved through routine maintenance.

The facility owner or operator shall conduct a stack test to demonstrate compliance with the VOC emission limit upon request by the Department. At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Parameter Monitored: VOC

Upper Permit Limit: 0.19 grams per kilowatt hour

Reference Test Method: Method 25A or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 65: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-5.4****Item 65.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: DFP

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one (1) diesel-fired fire pump engine. The pump engine must meet a VOC LAER emission limit of 4.0 g/kW-hr (Tier 3 Emission Standards), as guaranteed by a vendor or EPA certificate of conformity and achieved through routine maintenance.

The facility owner or operator shall conduct a stack test to demonstrate compliance with the VOC emission limit upon request by the Department. At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: VOC

Upper Permit Limit: 4.0 grams per kilowatt hour

Reference Test Method: Method 25A or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 66: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 66.1:

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

Emission Unit: 1-CMBOP
Process: DFP

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one (1) diesel-fired fire pump engine. The pump engine must meet a NO_x LAER emission limit of 4.0 g/kW-hr (Tier 3 Emission Standards), as guaranteed by a vendor or EPA certificate of conformity and achieved through routine maintenance.

The facility owner or operator shall conduct a stack test to demonstrate compliance with the NO_x emission limit upon request by the Department. At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per kilowatt hour

Reference Test Method: Method 7E or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 67: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Item 67.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: WV2

Regulated Contaminant(s):

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

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates eight (8) natural gas-fired water bath vaporizers (WBVs). Four (4) WBVs shall be operational upon startup. Four (4) WBVs shall be on standby. Each WBV must meet a NO_x LAER emission limit of 0.011 lb/MMBtu.

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each WBV. The facility owner or operator is required to perform a compliance test on two (2) WBVs per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.011 pounds per million Btus

Reference Test Method: Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 68: Compliance Certification

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 68.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: EM1

Emission Unit: 2-CMBOP

Process: EM2

Regulated Contaminant(s):

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

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one hundred eighteen (118) diesel-fired emergency engines. Each engine must meet a NO_x LAER emission limit of 0.67 g/kW-hr, (Tier 4 Final Emission Standards), as guaranteed by a vendor or EPA certificate of conformity and achieved through routine maintenance.

The facility owner or operator shall conduct a stack test to demonstrate compliance with the NO_x emission limit upon request by the Department. At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.67 grams per kilowatt hour

Reference Test Method: Method 7E or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 69: Compliance Certification

Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Item 69.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: BL1

Emission Unit: 2-CMBOP

Process: BL2

Regulated Contaminant(s):

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

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates six (6) natural gas-fired boilers. Each boiler must meet a NO_x LAER emission limit of 9 parts per million by volume (dry, corrected to 3% oxygen).

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each boiler. The facility owner or operator is required to perform a compliance test on one (1) boiler per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9 parts per million by volume (dry, corrected to 3% oxygen)

Reference Test Method: Method 7E or Other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 70: Compliance Certification

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 70.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-HPMCU

Process: HS1

Emission Unit: 2-HPMCU

Process: HS2

Regulated Contaminant(s):

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

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall track the total hours of operation of the Spin On Dielectric (SOD) waste treatment process on a 24-hour rolling total basis. Reports will be submitted semi-annually, in a format acceptable to the Department.

Records for demonstration of compliance with this limit shall be maintained on site for five years. Operation consistent with this condition is necessary for compliance with several regulations including NO_x LAER, VOC LAER, CO₂e BACT and PM BACT.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 71: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.5

Item 71.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 71.2:

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The construction of fab 1, fab 2, and supporting equipment constitutes a new major facility with respect to Nonattainment New Source Review (NNSR). The project's potential to emit NO_x is 357.2 tons per year. NO_x emissions must be offset by a ratio of 1.15 to 1. Therefore, the permittee is using 411 tons of NO_x emission reduction credits in accordance with Part 231-5.2(d), obtained from the following facilities:

Cogentrix of PA
411 tons

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 72: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.5

Item 72.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The construction of fab 1, fab 2, and supporting equipment constitutes a new major facility with respect to Nonattainment New Source Review (NNSR). The project's potential to emit VOC is 205.7 tons per year. VOC emissions must be offset by a ratio of 1.15 to 1. Therefore, the permittee is using 237 tons of VOC emission reduction credits in accordance with Part 231-5.2(d), obtained from the following facilities:

Amcor Flexibles North America
West Hazleton, PA
48.33 tons

Norbord Industries
DEC ID# 4-1230-00019
15.56 tons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Bethlehem Steel Corp.
DEC ID# 9-1409-00003
68.37 tons

Glens Falls Lehigh Portland Cement Co
DEC ID# 4-1926-00001
104.74 tons

Monitoring Frequency: SINGLE OCCURRENCE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 73: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 231-7

Item 73.1:

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

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

Regulated Contaminant(s):
CAS No: 0NY075-02-5 PM-2.5

Item 73.2:

Compliance Certification shall include the following monitoring:

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

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Monitoring Description:

Emissions of Particulate matter that is 2.5 microns or less in diameter (PM_{2.5}) are limited to 55.9 tons per year for the combined emissions from sources associated with Fabs 1 and 2.

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 55.9 tons. The semiannual reports must include information that documents the PM_{2.5} emissions from each emission unit, including exempt activities. Each semiannual report must include information that documents the PM_{2.5} emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the PM_{2.5} emission limit. Any relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the PM_{2.5} emission limit in this condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the PM_{2.5} emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: PM-2.5

Upper Permit Limit: 55.9 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 74: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 231-7

Item 74.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

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

Item 74.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Particulates (PM) are limited to 77.6 tons per year for the combined emissions from sources associated with Fabs 1 and 2.

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 77.6 tons. The semiannual reports must include information that documents the PM emissions from each emission unit, including exempt activities. Each semiannual report must include information that documents the PM emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the PM emission limit. Any

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the PM emission limit in this condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the PM emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 77.6 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 75: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 231-7

Item 75.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 75.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Particulate matter that is 10 microns or less in diameter (PM10) are limited to 68.7 tons per year for the combined emissions from sources associated with Fabs 1 and 2.

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 68.7 tons. The semiannual reports must include information that documents the PM10 emissions from each emission unit, including exempt activities. Each semiannual report must include information that documents the PM10 emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the PM10 emission limit. Any relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the PM10 emission limit in this condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the PM10 emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: PM-10

Upper Permit Limit: 68.7 tons per year

Monitoring Frequency: MONTHLY

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 231-7

Item 76.1:

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

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 76.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Carbon Dioxide Equivalents (CO₂e) are limited to 1,090,018 tons per year on a GWP-100 basis for the combined emissions from sources associated with Fabs 1 and 2.

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 1,090,018 tons. The semiannual reports must include information that documents the CO₂e emissions from each emission unit, including exempt activities. Each semiannual report must include information that documents the CO₂e emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the CO₂e emission limit. Any relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the CO₂e emission limit in this condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the CO₂e emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS
Upper Permit Limit: 1090018 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 77: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 231-7

Item 77.1:

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

Emission Unit: 1-ADMPR

Emission Unit: 1-CMBOP

Emission Unit: 1-FABOP

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 1-FUGEM

Emission Unit: 1-HPMCU

Emission Unit: 1-WWBIO

Emission Unit: 2-ADMPR

Emission Unit: 2-CMBOP

Emission Unit: 2-FABOP

Emission Unit: 2-FUGEM

Emission Unit: 2-HPMCU

Emission Unit: 2-WWBIO

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 77.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Carbon Monoxide (CO) are limited to 1410 tons per year for the combined emissions from sources associated with Fabs 1 and 2.

The facility owner or operator shall track annual emissions on a 12-month rolling total basis to demonstrate compliance with this emission limit. Reports shall be submitted semiannually, in a format acceptable to the Department, which document that emissions over each consecutive 12-month period were below 1410 tons. The semiannual reports must include information that documents the CO emissions from each emission unit, including exempt activities. Each semiannual report must include information that documents the CO emissions from each emission unit, including exempt activities. The facility owner or operator shall use Department approved calculation methodologies to calculate emissions and determine compliance with the CO emission limit. Any relevant information necessary to validate the emissions, including but not limited to emission factors and other relevant data, shall be provided to the Department upon request.

Any noncompliance with the CO emission limit in this

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

condition must be reported by sending a copy of such record to the Department within 30 days of the end of the 12-month period for which there was an exceedance.

Records for demonstration of compliance with the CO emission limit shall be maintained on site for at least five years and be made available to the Department upon request.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 1410 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 78: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 78.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP

Process: FC1

Emission Source: TFD01

Emission Unit: 2-FABOP

Process: FC2

Emission Source: TFD02

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Chemical vapor deposition (CVD) tool chambers (emission sources TFD01 and TFD02) will be cleaned using the NF3 remote plasma clean process in lieu of in-situ cleaning using NF3 or carbon-based F-GHGs when technically feasible. The facility must maintain records describing applications where NF3 remote plasma clean is not used to justify the use of an alternative cleaning process. These records will be made available to the Department upon request and maintained on site for at least 5 years. The implementation of these procedures constitutes CO₂e BACT for these sources at the facility.

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 79: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 79.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FUGEM

Process: RF1

Emission Unit: 2-FUGEM

Process: RF2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

PM BACT for on-site roads has been determined to be surface improvements (e.g. paving) and the implementation of speed limits for on-site traffic. Where paving on-site roads is not feasible, the facility shall conduct periodic watering. The facility owner or operator shall maintain records of when watering of the unpaved roads occurs. These records will be made available to the Department upon request and maintained on site for at least 5 years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 80: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 80.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Process: FC1

Emission Unit: 2-FABOP

Process: FC2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 80.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility operates chemical vapor deposition (CVD) exhaust (processes FC1 and FC2) at fab 1 and fab 2. PM BACT for the CVD exhaust was determined to be the implementation of the ionizing wet scrubbers (IWS).

To ensure proper operation of the IWS, an appropriate voltage range across the wet electrostatic precipitator will be specified by the facility owner or operator prior to operation, based on manufacturer's specifications via a permit modification prior to operation. The facility owner or operator shall monitor the voltage range of each operational IWS with a continuous monitor. The monitors shall be maintained according to manufacturer's specifications.

If the operational IWS voltage falls outside the specified range for more than a 1-hr period, the facility owner or operator must take corrective action(s). Any deviation, the reason, and/or corrective actions taken, must be recorded and kept at the facility for at least five years.

Parameter Monitored: VOLTAGE

Lower Permit Limit: 0 volts

Upper Permit Limit: 10 volts

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE-NOT TO FALL OUTSIDE OF STATED
RANGE EXCEPT DURING STARTUP/SHUTDOWN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 81: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 81.1:

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

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

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 2-FABOP
Process: FB2

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

Item 81.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility operates ammonia exhaust (processes FB1 and FB2) at fab 1 and fab 2. PM BACT for the ammonia exhaust was determined to be the use of mist eliminators on the ammonia scrubbers.

To ensure proper operation of the ammonia scrubbers, an appropriate pressure drop range will be specified by the facility owner or operator prior to operation, based on manufacturer specifications via a permit modification prior to operation. The facility owner or operator shall monitor the pressure drop of each operational ammonia scrubber with a continuous monitor. The monitors shall be maintained according to manufacturer's specifications.

If the operational ammonia scrubber pressure drop falls outside the specified range for more than a 1-hr period, the facility owner or operator must take corrective action(s). Any deviation, the reason, and/or corrective actions taken, must be recorded and kept at the facility for at least five years.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 1.5 inches of water

Upper Permit Limit: 6 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE-NOT TO FALL OUTSIDE OF STATED
RANGE EXCEPT DURING STARTUP/SHUTDOWN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 82: Compliance Certification

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 82.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-WWBIO

Process: SL1

Emission Unit: 2-WWBIO

Process: SL2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 82.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility operates 4 bulk material storage silos. Particulates emissions from the storage silos shall be vented to a fabric filter. The facility owner or operator shall monitor the pressure drop of the fabric filter weekly to ensure proper operation. The pressure drop of the fabric filter shall be specified by the facility based on manufacturer's specifications via a permit modification prior to operation.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 0 inches of water

Upper Permit Limit: 100 inches of water

Monitoring Frequency: WEEKLY

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 83: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 83.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-WWBIO

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Process: SL1

Emission Unit: 2-WWBIO

Process: SL2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates four (4) bulk material storage silos. Particulates emissions from the storage silos will be vented to a fabric filter with a maximum outlet grain loading of 0.005 grains/dscf, per manufacturer specifications. Pressure drop of the fabric filter is monitored monthly to ensure proper operation.

The facility owner or operator shall conduct a stack test on the fabric filters to demonstrate compliance with the maximum outlet grain loading upon request by the Department. At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.005 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: UPON REQUEST OF REGULATORY AGENCY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 84: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 84.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP

Process: FA1

Emission Source: IMP01

Emission Unit: 1-FABOP

Process: FA1

Emission Source: PLE01

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Emission Unit: 1-FABOP
Process: FA1

Emission Source: WET01

Emission Unit: 1-FABOP
Process: FS1

Emission Source: PHO01

Emission Unit: 2-FABOP
Process: FA2

Emission Source: IMP02

Emission Unit: 2-FABOP
Process: FA2

Emission Source: PLE02

Emission Unit: 2-FABOP
Process: FA2

Emission Source: WET02

Emission Unit: 2-FABOP
Process: FS2

Emission Source: PHO02

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility operates semiconductor process equipment and process equipment exhaust conditioners (PEECs) that emit PM. PM BACT for these sources has been determined to be good combustion practices and maintenance procedures according to manufacturer's specifications.

The facility owner or operator shall maintain records confirming that maintenance has been conducted on these sources on an annual basis or at another frequency as specified by the manufacturer.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 85: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6**Item 85.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 1-FUGEM
Process: SF1

Emission Unit: 2-FUGEM
Process: SF2

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall install circuit breakers with a manufacturer-guaranteed SF6 leak rates less than 0.5%. The facility owner or operator shall also install leak detection systems (with alarms). The leak detection system will be monitored continuously. If a leak is detected, the facility owner or operator shall replace the affected circuit breaker. Instances when the alarm goes off and when the circuit breaker is replaced shall be recorded. These records shall be maintained on site for a period of at least five years. This constitutes CO2e BACT for the listed sources.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 86: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 86.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Source: PLE01

Emission Unit: 2-FABOP
Process: FA2

Emission Source: PLE02

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

CO2e BACT for the fab acid exhaust systems consist of

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operating point-of-use (POU) control devices or regenerative catalytic systems (RCS) that are certified to meet the standards listed in the Intergovernmental Panel on Climate Change's (IPCC) 2019 Refinement Table 6.17. The facility owner or operator shall maintain records of this certification consistent with the requirements of IPCC's 2019 Refinement.

This includes the following:

- Site maintenance plan that meets the POU control device and RCS supplier's installation, operation and maintenance requirements.
- Uptime of POU control devices and RCS when fab processes are running.
- Annual certification that each POU control device and RCS followed the site maintenance plan.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 87: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 87.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP

Process: FA1

Emission Unit: 2-FABOP

Process: FA2

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY750-00-0	CARBON DIOXIDE EQUIVALENTS
CAS No: 0NY075-00-0	PARTICULATES

Item 87.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility operates acid exhaust (processes FA1 and FA2) at fab 1 and fab 2. PM BACT for the acid exhaust was determined to be the use of mist eliminators on the acid

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scrubbers.

To ensure proper operation of the acid scrubbers, an appropriate pressure drop range will be specified by the facility owner or operator prior to operation, based on manufacturer specifications via a permit modification prior to operation. The facility owner or operator shall monitor the pressure drop of each operational acid scrubber with a continuous monitor. The monitors shall be maintained according to manufacturer's specifications.

If the operational acid scrubber pressure drop falls outside the specified range for more than a 1-hr period, the facility owner or operator must take corrective action(s). Any deviation, the reason, and/or corrective actions taken, must be recorded and kept at the facility for at least five years.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 1.5 inches of water

Upper Permit Limit: 6 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE-NOT TO FALL OUTSIDE OF STATED
RANGE EXCEPT DURING STARTUP/SHUTDOWN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 88: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 88.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-HPMCU

Process: CT1

Emission Unit: 2-HPMCU

Process: CT2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 88.2:

Compliance Certification shall include the following monitoring:

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

Permit ID: 7-3124-00575/00004

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Monitoring Description:

The facility operates 222 cooling towers. Each cooling tower must vent emissions to a drift eliminator with a maximum drift rate of 0.0005%. The drift eliminators shall be inspected and maintained according to manufacturer's specifications. The facility owner or operation shall maintain records indicating the date of each such maintenance, the condition of the drift eliminator, and any corrective actions taken. Records shall be kept at the facility for a minimum of five years and made available to the Department upon request.

Parameter Monitored: DRIFT RATE

Upper Permit Limit: 0.0005 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTIONAveraging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 89: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-7.6****Item 89.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: WV2

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates eight (8) natural gas-fired only water bath vaporizers. Each water bath vaporizer must meet a Carbon Dioxide Equivalent (CO₂e) BACT emission limit of 117 lb/MMBtu, which will be achieved through good combustion and maintenance practices and verified through vendor certification. The facility owner or operator shall conduct compliance testing to demonstrate compliance with

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the CO₂e emission limit upon request by the Department.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS

Upper Permit Limit: 117 pounds per million Btus

Reference Test Method: EPA Reference Test Method or Equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 90: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 90.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: BL1

Emission Unit: 2-CMBOP

Process: BL2

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates six (6) natural gas-fired only boilers. Each boiler must meet a Carbon Dioxide Equivalent (CO₂e) BACT emission limit of 117 lb/MMBtu, which will be achieved through good combustion and maintenance practices and verified through vendor certification. The facility owner or operator shall conduct compliance testing to demonstrate compliance with the CO₂e emission limit upon request by the Department.

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At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS
Upper Permit Limit: 117 pounds per million Btus
Reference Test Method: EPA Reference Test Method or Equivalent
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 91.1:

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

Emission Unit: 1-CMBOP
Process: EM1

Emission Unit: 2-CMBOP
Process: EM2

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one hundred eighteen (118) diesel-fired emergency engines. Each engine must meet a Carbon Dioxide Equivalent (CO₂e) BACT emission limit of 163 lb/MMBtu, which will be achieved through good combustion and maintenance practices and verified through vendor certification. The facility owner or operator shall conduct compliance testing to demonstrate compliance with the CO₂e emission limit upon request by the Department.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department

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approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS
Upper Permit Limit: 163 pounds per million Btus
Reference Test Method: EPA Reference Test Method or Equivalent
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 92: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 92.1:

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

Emission Unit: 1-CMBOP
Process: DFP

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one (1) diesel-fired fire pump engine. The fire pump engine must meet a Carbon Dioxide Equivalent (CO₂e) BACT emission limit of 163 lb/MMBtu, which will be achieved through good combustion and maintenance practices and verified through vendor certification. The facility owner or operator shall conduct compliance testing to demonstrate compliance with the CO₂e emission limit upon request by the Department.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

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Parameter Monitored: CARBON DIOXIDE EQUIVALENTS
 Upper Permit Limit: 163 pounds per million Btus
 Reference Test Method: EPA Reference Test Method or Equivalent
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 93: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 93.1:

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

Emission Unit: 1-CMBOP
 Process: EM1

Emission Unit: 2-CMBOP
 Process: EM2

Regulated Contaminant(s):
 CAS No: 000000-00-00 PM-2.5

Item 93.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one hundred eighteen (118) diesel-fired emergency engines. Each engine must meet a PM BACT emission limit of 0.008 g/kW-hr, which will be achieved through good combustion and maintenance practices and verified through vendor certification. The facility owner or operator shall conduct compliance testing to demonstrate compliance with the PM emission limit upon request by the Department.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: PARTICULATES

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Facility DEC ID: 7312400575

Upper Permit Limit: 0.008 grams per kilowatt hour

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 94: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-7.6****Item 94.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: EM1

Emission Unit: 2-CMBOP

Process: EM2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one hundred eighteen (118) diesel-fired emergency engines. Each engine must meet a CO BACT emission limit of 3.5 g/kW-hr, which will be achieved through good combustion and maintenance practices and verified through vendor certification. The facility owner or operator shall conduct compliance testing to demonstrate compliance with the CO emission limit upon request by the Department.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 3.5 grams per kilowatt hour

Reference Test Method: Method 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 95: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-7.6****Item 95.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: BL1

Emission Unit: 2-CMBOP

Process: BL2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates six (6) natural gas-fired boilers.
Each boiler must meet a CO BACT emission limit of 50 parts
per million by volume (dry, corrected to 3% oxygen).

To demonstrate compliance with this limit, the facility
owner or operator is required to conduct an initial
compliance test to confirm the vendor specified emission
rate guarantee. An initial compliance demonstration is
required within 180 days after the first firing of each
boiler. The facility owner or operator is required to
perform a compliance test on one (1) boiler per permit
term. Subsequent compliance tests shall be done on a
rotating basis.

At least 30 days prior to testing, the facility owner or
operator must submit a testing protocol to the Department
for approval. The facility owner or operator must submit
an electronic copy of the emission test report to the
Department for approval within 60 calendar days after the
completion of the test(s).

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 50 parts per million by volume (dry,

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corrected to 3% oxygen)

Reference Test Method: Method 10 or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 96: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-7.6****Item 96.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: WV2

Regulated Contaminant(s):

CAS No: 000000-00-00 PARTICULATES

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates eight (8) natural gas-fired water bath vaporizers (WBVs). Four (4) WBVs shall be operational upon startup. Four (4) WBVs shall be on standby. Each WBV must meet a PM BACT emission limit of 7.6 lb/MMscf.

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each WBV. The facility owner or operator is required to perform a compliance test on two (2) WBVs per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the

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completion of the test(s).

Parameter Monitored: PARTICULATES

Upper Permit Limit: 7.6 pounds per million cubic feet

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 97: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 97.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: BL1

Emission Unit: 2-CMBOP

Process: BL2

Regulated Contaminant(s):

CAS No: 000000-00-00 PARTICULATES

Item 97.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates six (6) natural gas-fired boilers.

Each boiler must meet a PM BACT emission limit of 7.6
lb/MMscf.

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each boiler. The facility owner or operator is required to perform a compliance test on one (1) boiler per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit

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an electronic copy of the emission test report to the
Department for approval within 60 calendar days after the
completion of the test(s).

Parameter Monitored: PARTICULATES

Upper Permit Limit: 7.6 pounds per million cubic feet

Reference Test Method: Method 5 or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 98: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6**Item 98.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: DFP

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one (1) diesel-fired fire pump
engine. The pump must meet a PM BACT emission limit of
0.20 g/kW-hr, achieved through good combustion and
maintenance practices.

The facility owner or operator shall conduct a stack test
to demonstrate compliance with the PM emission limit upon
request by the Department. At least 30 days prior to
testing, the facility owner or operator must submit a
testing protocol for Department approval. The facility
owner or operator must submit an electronic copy of the
emission test report to the Department for approval within
60 calendar days after the completion of the test(s).

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.20 grams per kilowatt hour

Reference Test Method: Method 5 or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 99: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 231-7.6****Item 99.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: DFP

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 99.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates one (1) diesel-fired fire pump engine. The pump must meet a CO BACT emission limit of 3.5 g/kW-hr, achieved through good combustion and maintenance practices.

The facility owner or operator shall conduct a stack test to demonstrate compliance with the CO emission limit upon request by the Department. At least 30 days prior to testing, the facility owner or operator must submit a testing protocol for Department approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 3.5 grams per kilowatt hour

Reference Test Method: Method 10 or other DEC Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 100: Compliance Certification
Effective for entire length of Permit

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Facility DEC ID: 7312400575

Applicable Federal Requirement: 6 NYCRR 231-7.6**Item 100.1:**

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

Emission Unit: 1-CMBOP
Process: WV1

Emission Unit: 2-CMBOP
Process: WV2

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility operates eight (8) natural gas-fired water bath vaporizers (WBVs). Four (4) WBVs shall be operational upon startup. Four (4) WBVs shall be on standby. Each WBV must meet a CO BACT emission limit of 0.037 lb/MMBtu.

To demonstrate compliance with this limit, the facility owner or operator is required to conduct an initial compliance test to confirm the vendor specified emission rate guarantee. An initial compliance demonstration is required within 180 days after the first firing of each WBV. The facility owner or operator is required to perform a compliance test on two (2) WBVs per permit term. Subsequent compliance tests shall be done on a rotating basis.

At least 30 days prior to testing, the facility owner or operator must submit a testing protocol to the Department for approval. The facility owner or operator must submit an electronic copy of the emission test report to the Department for approval within 60 calendar days after the completion of the test(s).

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 0.037 pounds per million Btus

Reference Test Method: Method 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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Condition 101: Applicability
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60, NSPS Subpart IIII

Item 101.1:

This Condition applies to:

Emission Unit: 1CMBOP
 Process: DFP

Emission Unit: 1CMBOP
 Process: EM1

Emission Unit: 2CMBOP
 Process: EM2

Item 101.2:

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

Condition 102: Operations during startup, shutdown, and malfunction
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.6(e)(1), Subpart A

Item 102.1:

At all times, including during periods of startup, shutdown, and malfunction, the owner/operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner/operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner/operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner/operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the NYSDEC which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in 40 CFR 63.6(e)(3)), review of operation and maintenance records, and inspection of the source.

Malfunctions must be corrected as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner/operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.

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Operation and maintenance requirements established pursuant to section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standards.

Condition 103: Startup, Shutdown and Malfunction
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.6(e)(3), Subpart A

Item 103.1:

The owner or operator of an applicable source shall develop and implement a written startup, shutdown and malfunction (SSM) plan that describes in detail procedures for operating and maintaining the source during periods of SSM and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Consult 40 CFR 63.6(e)(3) (i through viii) for specific requirements regarding SSM plans.

Condition 104: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.8(c), Subpart A

Item 104.1:

The Compliance Certification activity will be performed for the Facility.

Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation and maintenance of continuous monitoring systems.

(1) The owner or operator of an affected source shall maintain and operate each CMS as specified in this section, or in a relevant standard, and in a manner consistent with good air pollution control practices.

(i) The owner or operator of an affected source must maintain and operate each CMS as specified in § 63.6(e)(1)

(ii) The owner or operator must keep the necessary parts for routine repairs of the affected CMS equipment readily available

(iii) The owner or operator of an affected source must develop a written startup, shutdown, and malfunction plan for CMS as specified in § 63.6(e)(3)

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(2)

(i) All CMS must be installed such that representative measures of emissions or process parameters from the affected source are obtained. In addition, CEMS must be located according to procedures contained in the applicable performance specification(s)

(ii) Unless the individual subpart states otherwise, the owner or operator must ensure the read out (that portion of the CMS that provides a visual display or record), or other indication of operation, from any CMS required for compliance with the emission standard is readily accessible on site for operational control or inspection by the operator of the equipment

(3) All CMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under § 63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system

(4) Except for system breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level calibration drift adjustments, all CMS, including COMS and CEMS, shall be in continuous operation and shall meet minimum frequency of operation requirements as follows

(i) All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period

(ii) All CEMS for measuring emissions other than opacity shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period

(5) Unless otherwise approved by the Administrator, minimum procedures for COMS shall include a method for producing a simulated zero opacity condition and an upscale (high-level) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of all the analyzer's internal optical surfaces and all electronic circuitry, including the lamp and photodetector assembly

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normally used in the measurement of opacity

(6) The owner or operator of a CMS that is not a CPMS, which is installed in accordance with the provisions of this part and the applicable CMS performance specification(s), must check the zero (low-level) and high-level calibration drifts at least once daily in accordance with the written procedure specified in the performance evaluation plan developed under paragraphs (e)(3)(i) and (ii) of this section. The zero (low-level) and high-level calibration drifts must be adjusted, at a minimum, whenever the 24-hour zero (low-level) drift exceeds two times the limits of the applicable performance specification(s) specified in the relevant standard. The system shall allow the amount of excess zero (low-level) and high-level drift measured at the 24-hour interval checks to be recorded and quantified whenever specified. For COMS, all optical and instrumental surfaces exposed to the effluent gases must be cleaned prior to performing the zero (low-level) and high-level drift adjustments; the optical surfaces and instrumental surfaces must be cleaned when the cumulative automatic zero compensation, if applicable, exceeds 4 percent opacity. The CPMS must be calibrated prior to use for the purposes of complying with this section. The CPMS must be checked daily for indication that the system is responding. If the CPMS system includes an internal system check, results must be recorded and checked daily for proper operation

(7)

(i) A CMS is out of control if

(A) The zero (low-level), mid-level (if applicable), or high-level calibration drift (CD) exceeds two times the applicable CD specification in the applicable performance specification or in the relevant standard; o

(B) The CMS fails a performance test audit (e.g., cylinder gas audit), relative accuracy audit, relative accuracy test audit, or linearity test audit; o

(C) The COMS CD exceeds two times the limit in the applicable performance specification in the relevant standard

(ii) When the CMS is out of control, the owner or operator of the affected source shall take the necessary corrective action and shall repeat all necessary tests which indicate that the system is out of control. The owner or operator shall take corrective action and conduct retesting until the performance requirements are below the applicable

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limits. The beginning of the out-of-control period is the hour the owner or operator conducts a performance check (e.g., calibration drift) that indicates an exceedance of the performance requirements established under this part. The end of the out-of-control period is the hour following the completion of corrective action and successful demonstration that the system is within the allowable limits. During the period the CMS is out of control, recorded data shall not be used in data averages and calculations, or to meet any data availability requirement established under this part

(8) The owner or operator of a CMS that is out of control as defined in paragraph (c)(7) of this section shall submit all information concerning out-of-control periods, including start and end dates and hours and descriptions of corrective actions taken, in the excess emissions and continuous monitoring system performance report required in § 63.10(e)(3).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 105: General Recordkeeping Requirements
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.10(b), Subpart A

Item 105.1:

The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record. At a minimum the most recent 2 years of data shall be retained on site. The owner or operator of an affected source subject to the provisions of this part shall maintain relevant records for such source as described in 40 CFR 63.10 (b)(2) and (3).

Condition 106: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.983(a), Subpart SS

Item 106.1:

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

Emission Unit: 1-FABOP
Process: FA1

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Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP

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Process: FS2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Item 106.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Unless operated under negative pressure, each closed vent system shall:

- 1) Be designed and operated to collect the regulated material vapors from the emission point and to route the collected vapors to a control device.
- 2) Be operated at all times when emissions are routed to, or collected by, them.
- 3) For each closed vent system that contains bypass lines that could divert a vent stream to the atmosphere, the owner/operator shall comply with one of the following provisions. [This does not apply to equipment needed for safety purposes (pressure relief devices, low leg drains, etc.)]:
 - 3a) Properly install, maintain, and operate a flow indicator that takes a reading at least once every 15 minutes. Records shall be generated as specified in §63.998(d)(1)(ii)(A). The flow indicator shall be

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installed at the entrance to any bypass line, or
3b) Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once per month to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Records shall be generated as specified in §63.998(d)(1)(ii)(B).

4) Each transfer rack shall be designed and operated so that regulated material vapors collected at one loading arm will not pass through another loading arm in the rack to the atmosphere.

5) Each transfer rack shall ensure that no pressure relief device in the transfer rack's closed vent system shall open to the atmosphere during loading. Pressure relief devices needed for safety purposes are not subject to this paragraph.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 107: Halogen scrubber and other halogen reduction device - equipment and operating requirements
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.994(a), Subpart SS

Item 107.1:

(1) An owner or operator of a halogen scrubber or other halogen reduction device subject to 40 CFR Part 63 Subpart SS shall reduce the overall emissions of hydrogen halides and halogens by the control device performance level specified in a referencing subpart.

(2) Halogen scrubbers and other halogen reduction devices used to comply with the provisions of a referencing subpart and 40 CFR Part 63 Subpart SS shall be operated at all times when emissions are vented to them.

Condition 108: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.994(b), Subpart SS

Item 108.1:

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

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-WWBIO
Process: WA2

Item 108.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a combustion device followed by a halogen scrubber or other halogen reduction device to control halogenated vent streams in accordance with a referencing subpart and 40 CFR Part 63 Subpart SS shall conduct an initial performance test to determine compliance with the control efficiency or emission limits for hydrogen halides and halogens according to the procedures in § 63.997. Performance test records shall be kept as specified in § 63.998(a)(2) and a performance test report shall be submitted as specified in § 63.999(a)(2)

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 109: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.994(b), Subpart SS

Item 109.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-WWBIO
Process: WA2

Item 109.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a halogen scrubber or other
halogen reduction technique used to reduce the vent stream

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halogen atom mass emission rate prior to a combustion device to comply with a performance level specified in a referencing subpart shall determine the halogen atom mass emission rate prior to the combustion device according to the procedures specified in the referencing subpart. Records of the halogen concentration in the vent stream shall be generated as specified in § 63.998(a)(4).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 110: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.994(c), Subpart SS

Item 110.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-WWBIO
Process: WA2

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Item 110.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Where a halogen scrubber is used, the monitoring equipment specified in paragraphs (i) and (ii) below is required for the scrubber. Monitoring results shall be recorded as specified in § 63.998(b) and § 63.998(c), as applicable. General requirements for monitoring and continuous parameter monitoring systems are contained in a referencing subpart and § 63.996

(i) A pH monitoring device capable of providing a continuous record shall be installed to monitor the pH of the scrubber effluent.

(ii) A flow meter capable of providing a continuous record shall be located at the scrubber influent for liquid flow. Gas stream flow shall be determined using one of the procedures specified in paragraphs (A) through (D) which are listed below.

(A) The owner or operator may determine gas stream flow using the design blower capacity, with appropriate adjustments for pressure drop

(B) The owner or operator may measure the gas stream flow at the scrubber inlet

(C) If the scrubber is subject to regulations in 40 CFR Parts 264 through 266 that have required a determination of the liquid to gas (L/G) ratio prior to the applicable compliance date for the process unit of which it is part as specified in a referencing subpart, the owner or operator may determine gas stream flow by the method that had been utilized to comply with those regulations. A determination that was conducted prior to that compliance date may be utilized to comply with this subpart if it is still representative

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(D) The owner or operator may prepare and implement a gas stream flow determination plan that documents an appropriate method that will be used to determine the gas stream flow. The plan shall require determination of gas stream flow by a method that will at least provide a value for either a representative or the highest gas stream flow anticipated in the scrubber during representative operating conditions other than start-ups, shutdowns, or malfunctions. The plan shall include a description of the methodology to be followed and an explanation of how the selected methodology will reliably determine the gas stream flow, and a description of the records that will be maintained to document the determination of gas stream flow. The owner or operator shall maintain the plan as specified in a referencing subpart.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 111: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.994(c), Subpart SS

Item 111.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP

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Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-WWBIO
Process: WA2

Item 111.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Where a halogen reduction device other than a scrubber is used, the owner or operator shall follow the procedures specified in a referencing subpart in order to establish monitoring parameters.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 112: Equipment and Operating Requirements - Other control devices

Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.995(a), Subpart SS

Item 112.1:

(1) Owners or operators using a control device other than one listed in §§ 63.985 through 63.990 to meet a weight-percent emission reduction or parts per million by volume outlet concentration requirement specified in a referencing subpart shall meet the requirements of § 63.995.

(2) Other control devices used to comply with the provisions of a referencing subpart and 40 CFR Part 63 Subpart SS shall be operated at all times when emissions are vented to them.

Condition 113: Compliance Certification

Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.995(b), Subpart SS

Item 113.1:

The Compliance Certification activity will be performed for the Facility.

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Item 113.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator using a control device other than those specified in §§ 63.987 through 63.990 to comply with a performance level specified in a referencing subpart, shall perform an initial performance test according to the procedures in § 63.997. Performance test records shall be kept as specified in § 63.998(a)(2) and a performance test report shall be submitted as specified in § 63.999(a)(2).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 114: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.995(c), Subpart SS

Item 114.1:

The Compliance Certification activity will be performed for the Facility.

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If an owner or operator uses a control device other than those listed in 40 CFR Part 63 Subpart SS, the owner or operator shall submit a description of planned monitoring, recordkeeping and reporting procedures as specified in a referencing subpart. The Administrator will approve, deny, or modify based on the reasonableness of the proposed monitoring, reporting and recordkeeping requirements as part of the review of the submission or permit application or by other appropriate means.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 115: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.998, Subpart SS

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Item 115.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Flare Compliance Assessment Records: When using a flare to comply with the requirements of Subpart SS, the owner/operator shall keep records of the flare design, all visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the flare compliance assessment, all periods during the flare compliance assessment when all pilot flames are absent or, if only the flare flame is monitored, all periods when the flare flame is absent.

Flare Compliance Monitoring Records: The owner/operator shall keep up to date and readily accessible hourly records of whether the monitor is continuously operating and whether the flare flame or at least one pilot flame is continuously present. For transfer racks, hourly records are required only while the transfer rack vent stream is being vented.

Flare Compliance Records: The owner/operator shall keep records of the times and duration of all periods during which the flare flame or all the pilot flames are absent. This record shall be submitted in the periodic reports required in §63.999(c)(8). Records of the times and durations which the monitor is not operating shall also be kept.

Nonflare Control Device Performance Test Records: Upon request, the owner/operator shall make available such records as may be necessary to determine the conditions of performance tests performed pursuant to §§63.988(b), 63.990(b), 63.994(b), or 63.995(b).

Nonflare Control Device and Halogen Reduction Device Performance Test Records: The owner/operator shall keep up-to-date, readily accessible continuous records of the data specified in §63.998(a)(2)(ii)(B)-(D), as applicable, measured during each performance test performed pursuant to §§63.988(b), 63.990(b), 63.994(b), or 63.995(b). The data in the Notification of Compliance Status shall also

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be included as required in §63.999(b).

Halogen Concentration Records: The owner/operator shall record the halogen concentration in the vent stream determined according to the procedures specified in a referencing subpart. This record shall be submitted in the Notification of Compliance Status, as specified in §63.999(b)(4).

Continuous records shall be kept as provided in §63.998(b)(1). Monitoring data recorded during monitoring system breakdowns, repairs, preventive maintenance, non-operation of the process unit, and startups/shutdowns/malfunctions shall not be included in any average computed to determine compliance with an emission limit in a referencing subpart. Daily averages shall also be recorded as required in §63.998(b)(3).

Nonflare control and recovery device regulated source monitoring records: For process vents and high throughput transfer racks, the owner/operator shall keep the records specified in §63.998(c)(1). If a combustion control or halogen reduction device is used to comply with this subpart, the following records shall be kept up-to-date and readily accessible - continuous records of the equipment operating parameters specified to be monitored in §63.988(c), 63.994(c), and 63.995(c), the daily average value of each continuously monitored parameter for each operating day, and periods of operation during which the parameter boundaries are exceeded.

Monitoring Records for Recovery Devices, Absorbers, Condensers, Carbon Adsorbers, or Other Noncombustion Systems Used As Control Devices: If a recovery device is used to achieve and maintain a TRE index value greater than the control applicability level specified in the referencing subpart but less than 4.0, or if a recovery device, absorber, condenser, carbon adsorber, or other non-combustion system is used as a control device, readily accessible, up-to-date records shall be kept of the equipment operating parameters specified to be monitored under §§63.990(c), §63.993(c), or §63.995(c), daily averages of each continuously monitored parameter and periods of when the parameters boundaries were exceeded shall also be kept.

Closed Vent System Records: The owner/operator shall keep records of the identification of all parts of the closed vent system that are designated as unsafe- or difficult-to-monitor, an explanation of why the equipment is unsafe or difficult to inspect, the plan for inspecting

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the equipment required by §63.983(b)(2)(ii) or (iii), if there are bypass lines that could divert emissions from the control device, hourly records of whether the flow indicator specified under §63.983(a)(3)(i) was operating and whether a diversion was detected at any time during the hour, records of the times of all periods when the vent stream is diverted from the control device or the flow indicator is not operating. When a leak is detected as specified in §63.983(d)(2), the information specified in §63.998(d)(1)(iii)(A)-(F) shall be recorded and kept for five years.

Storage Vessel and Transfer Rack Records: The owner/operator shall keep readily accessible records of the measured values of the parameters monitored in accordance with §63.985(c) or §63.987(c) and a record of the planned routine maintenance performed on the control system during which the control system does not meet the applicable specifications of §§63.983(a), 63.985(a), or 63.987(a), as applicable, due to the planned routine maintenance. This record shall include all information listed in §63.998(d)(2)(ii)(A)-(C).

Startup/Shutdown/Malfunction Records: The owner/operator shall keep records of the occurrence and duration of each startup, shutdown, and malfunction of operation of process equipment or of air pollution control equipment used to comply with this part during which excess emissions occur. These records shall include whether the procedures in the startup/shutdown/malfunction plan were followed, and documentation of actions taken that are not consistent with the plan.

Equipment Leak Records: The owner/operator shall keep the following records for closed vent systems and control devices if specified by the equipment leak provisions in a referencing subpart: The design specifications and performance demonstrations specified in §63.998(d)(4)(i)(A)-(C) shall be kept for the life of the equipment, records of operation of closed vent system and control devices including dates and durations when the closed vent systems and control devices required are not operated as designed as indicated by the monitored parameters, dates and durations during which the monitoring system or monitoring device is inoperative, and dates and durations of start-ups and shutdowns of control devices required in this subpart shall be retained for five years.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

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

Condition 116: Reporting requirements
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.999, Subpart SS

Item 116.1:

Performance test and flare compliance assessment notifications and reports:

General requirements:

- The owner/operator shall give 30 days notice before conducting a performance test or flare compliance assessment in order to allow NYSDEC the opportunity to have an observer present. If a delay occurs in conducting the scheduled compliance demonstration, the owner/operator shall notify NYSDEC as soon as possible and provide at least 7 days prior notice of the rescheduled date. Performance test reports that are not submitted with the Notification of Compliance Status report shall be submitted within 60 days.

Performance test and flare compliance assessment report submittal and content requirements:

- The Notification of Compliance Status or performance test report shall include one complete test report for each test method used for a particular kind of emission point. If additional tests are performed for the same kind of emissions point using the same method, only the results and any other information required in applicable sections of this subpart shall be submitted.
- A complete test report shall include a brief description of the process, the sampling site, sampling and analysis procedures, modifications to standard procedures, quality assurance procedures, records of operating conditions during the test, records of preparation of standards, records of calibrations, raw data sheets for field sampling, raw data sheets for field and lab analyses, documentation of calculations, and any other information required by the test method.
- The performance test report shall also include the records specified in §63.998(a)(1)(i) for flare compliance assessments, the records specified in §63.998(a)(2)(ii) for nonflare control devices and halogen reduction device performance tests, and the records specified in §63.998(a)(3) for recovery devices.

Notification of Compliance Status Report:

- The following information shall be included in the Notification of Compliance Status report, as applicable:
 - If storage vessel emissions are routed to a process, the owner/operator shall submit the information listed in §63.984(b)(2) and (b)(3).
 - If storage vessel emissions are routed to a fuel gas system, a statement that the emission stream is connected to the fuel gas system and whether the conveyance system is subject to the requirements of §63.983 shall be submitted.
 - As specified in §63.984(c), report that the transfer rack emission stream is being routed to a fuel gas system or process, when complying with a referencing subpart.
 - If storage vessel or low throughput transfer rack emissions are routed to a nonflare control device, the information listed in §63.999(b)(2)(i)-(vi) shall be submitted.
- The operating range for each monitoring parameter identified for each control, recovery, or halogen reduction device as determined pursuant to §63.996(c)(6) shall be submitted with the Notification of Compliance Status report. This range shall represent the conditions for which

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the control, recovery, or halogen reduction device is being properly operated and maintained. This report shall include the specific range of the monitored parameter for each emission point, the rationale for the specific range for each parameter for each emission point, including any data and calculations used to develop the range and a description of why the range indicates proper operation of the control, recovery, or halogen reduction device, as specified in §63.999(b)(3)(ii)(A)-(C), as applicable. A definition of the source's operating day for purposes of determining daily average values of monitored parameters shall also be submitted. The definition shall specify the times at which an operating day begins and ends.

- For halogen reduction devices, the information recorded pursuant to §63.998(a)(4) shall be submitted.

Periodic Reports:

- Periodic reports shall include the reporting period dates, the total source operating time for the reporting period, and, as applicable, the following information:

- reports of periods when monitored parameters are outside their established ranges,

- all periods when the pilot flame on a flare was absent,

- For closed vent systems, the information recorded in §63.998(d)(1)(iii)(B)-(E), reports of the times of all periods when the vent stream is diverted from the control device through a bypass line, and reports of all times recorded when maintenance is performed in car-sealed valves, when the seal is broken, when the bypass line valve position is changed, or the key for a lock-and-key type configuration has been checked out.

- For storage vessels, the information recorded in §63.998(d)(2)(ii)(A)-(C), the total number of hours that the control system did not meet the requirements of §§63.983(a), 63.985(a), or 63.987(a) due to planned routine maintenance for the previous 12 months, and a description of the planned routine maintenance during the next 6-month period that is anticipated to be performed for the control system when it is not expected to meet the required control efficiency. This description shall include the type of maintenance necessary, the planned frequency of the maintenance, and expected lengths of maintenance periods.

- For nonflare control devices used to control emissions from storage vessels and low throughput transfer racks, each occurrence when the monitored parameters were outside of the parameter ranges documented in the Notification of Compliance Status report, the identification of the control device for which the measured parameters were outside of the established ranges, and the cause for the measured parameters to be outside of the established ranges.

- For process vents and transfer racks that are not low-throughput,

--- The daily average values of monitored parameters shall be included for any days when: 1) the daily average value is outside the range as defined in §63.998(c)(2)(iii) or (c)(3)(iii), 2) the period of control or recovery device operation is 4 hours or greater in an operating day and monitoring data are insufficient to constitute a valid hour of data for at least 75% of the operating hours [monitoring data is insufficient for the hour if measured values are unavailable for any of the 15-minute periods within the hour], 3) the period of control or recovery device operation is less than 4 hours in an operating day and more than one of the hours during the period of operation does not constitute a valid hour of data due to insufficient monitoring data.

Condition 117: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63, Subpart BBBBB

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Item 117.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 117.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1. The owner or operator must conduct an initial performance test for total HAP using test methods specified by Table 1 to Subpart BBBBB. The performance test must be completed for each combined HAP process vent as specified in § 63.982(a)(2). Performance tests must be conducted under maximum operating conditions or HAP emissions potential (§ 63.7187(a)). Each performance test shall consist of three separate runs, each run shall be conducted for at least 1 hour.
2. Testing notifications must be submitted according to § 63.7189.
3. The results of emissions testing for process vents containing organic and inorganic HAP must demonstrate compliance with the emissions limitations of § 63.7184(f). These control requirements shall be compared to the arithmetic mean of three test runs, utilizing a test plan approved by the department. If no inorganic HAP are detected during the initial performance test for total HAP on the fab ammonia, solvent, and general exhausts, the

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facility shall compare test results to the organic HAP limits in §63.7184(b) for the relevant exhaust(s).

4. Performance tests must be completed by the date specified by § 63.7186, unless sufficient justification for a later test date is provided to the Department and Administrator in writing. The facility must keep records of testing according to § 63.7192.

Parameter Monitored: TOTAL HAP

Upper Permit Limit: 14.22 parts per million (by volume)

Reference Test Method: See Table 1 to Subpart BBBBB

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 118: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63, Subpart BBBBB

Item 118.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Regulated Contaminant(s):
CAS No: 0NY514-00-0 ORGANIC HAPS

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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1. The owner or operator must conduct an initial performance test for organic HAP using test methods specified by Table 1 to Subpart BBBBBB. The performance test must be completed for each organic HAP process vent as specified in § 63.982(a)(2). Performance tests must be conducted under maximum operating conditions or HAP emissions potential (§ 63.7187(a)). Each performance test shall consist of three separate runs, each run shall be conducted for at least 1 hour.
2. Notifications must be submitted according to § 63.7189.
3. The results of emissions testing must demonstrate compliance with the control requirements of either § 63.7184(b)(1) or § 63.7184(b)(2). These control requirements shall be compared to the arithmetic mean of three test runs, utilizing a test plan approved by the department.
4. Performance tests must be completed by the date specified by § 63.7186, unless sufficient justification for a later test date is provided to the Department and Administrator in writing. The facility must keep records of testing according to § 63.7192.
5. Process vents associated with the processes FG1, FG2, FS1, FS2, FB1, and FB2 must conduct a performance test which demonstrates quantities of inorganic HAP are below the method detection limit before using this condition to demonstrate compliance with 40 CFR 63 Subpart BBBBBB. Otherwise, these process vents must comply with the limits in § 63.7184 (f).
6. If the facility intends to demonstrate compliance with the organic HAP reduction limits under § 63.7184(b)(1), sampling ports representative of total inlet and outlet flow across each control device must be installed.

Parameter Monitored: ORGANIC HAPS

Upper Permit Limit: 20 parts per million (by volume)

Reference Test Method: See Table 1 to Subpart BBBBBB

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 119: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63, Subpart BBBBBB**Item 119.1:**

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

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU

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Process: HB4

Emission Unit: 2-HPMCU
Process: HS3Emission Unit: 2-HPMCU
Process: HS4Emission Unit: 2-WWBIO
Process: WA2Emission Unit: 2-WWBIO
Process: WB2Emission Unit: 2-WWBIO
Process: WS2Regulated Contaminant(s):
CAS No: 0NY515-00-0 INORGANIC HAPS**Item 119.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1. The owner or operator must conduct an initial performance test for inorganic HAP using test methods specified by Table 1 to Subpart BBBBBB. The performance test must be completed for each affected source as specified for process vents in § 63.982(a)(2) and storage tanks in § 63.982(a)(1). Performance tests must be conducted under maximum operating conditions or HAP emissions potential (§ 63.7187(a)). Each performance test shall consist of three separate runs, each run shall be conducted for at least 1 hour.
2. Testing notifications must be submitted according to § 63.7189.
3. The results of emissions testing for process vents must demonstrate compliance with the control requirements of either § 63.7184(c)(1) or § 63.7184(c)(2). These control requirements shall be compared to the arithmetic mean of three test runs, utilizing a test plan approved by the department.
4. The results of emissions testing for storage tanks must demonstrate compliance with the control requirements of either § 63.7184(d)(1) or § 63.7184(d)(2). These control requirements shall be compared to the arithmetic mean of three test runs.

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5. Performance tests must be completed by the date specified by § 63.7186, unless sufficient justification for a later test date is provided to the Department and Administrator in writing. The facility must keep records of testing according to § 63.7192.

6. If the facility intends to demonstrate compliance with the inorganic HAP reduction limits under § 63.7184(c)(1), or § 63.7184(d)(1) sampling ports representative of total inlet and outlet flow across each control device must be installed.

Parameter Monitored: INORGANIC HAPS

Upper Permit Limit: 0.42 parts per million (by volume)

Reference Test Method: See Table 1 to Subpart BBBBBB

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 120: Compliance date for new sources
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7183(a)(2), Subpart BBBBBB

Item 120.1:

The owner or operator of a new or reconstructed affected source must comply with the emission standards in 40 CFR 63 Subpart BBBBBB upon startup of the affected source.

Condition 121: Emission limitations, operating limits, and work practice standards
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184, Subpart BBBBBB

Item 121.1:

This Condition applies to:

Emission Unit: 1FABOP
Process: FA1

Emission Unit: 1FABOP
Process: FB1

Emission Unit: 1FABOP
Process: FC1

Emission Unit: 1FABOP
Process: FG1

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Emission Unit: 1FABOP
Process: FS1

Emission Unit: 1HPMCU
Process: HA1

Emission Unit: 1HPMCU
Process: HA2

Emission Unit: 1HPMCU
Process: HB1

Emission Unit: 1HPMCU
Process: HB2

Emission Unit: 1HPMCU
Process: HS1

Emission Unit: 1HPMCU
Process: HS2

Emission Unit: 1WWBIO
Process: WA1

Emission Unit: 1WWBIO
Process: WB1

Emission Unit: 1WWBIO
Process: WS1

Emission Unit: 2FABOP
Process: FA2

Emission Unit: 2FABOP
Process: FB2

Emission Unit: 2FABOP
Process: FC2

Emission Unit: 2FABOP
Process: FG2

Emission Unit: 2FABOP
Process: FS2

Emission Unit: 2HPMCU
Process: HA3

Emission Unit: 2HPMCU
Process: HA4

Emission Unit: 2HPMCU

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Process: HB3

Emission Unit: 2HPMCU
Process: HB4

Emission Unit: 2HPMCU
Process: HS3

Emission Unit: 2HPMCU
Process: HS4

Emission Unit: 2WWBIO
Process: WA2

Emission Unit: 2WWBIO
Process: WB2

Emission Unit: 2WWBIO
Process: WS2

Item 121.2:

40 CFR 63.7184(b), 63.7184(c), and 63.7184(d) provide multiple compliance options for process vents and storage tanks subject to 40 CFR 63 Subpart BBBBBB. The facility owner or operator may demonstrate compliance using either methodology specified in the applicable section.

The facility owner or operator must specify which compliance option is being selected for each emission source as part of each testing protocol submitted to the Department as required elsewhere in this permit.

Condition 122: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184(b), Subpart BBBBBB

Item 122.1:

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

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 2-FABOP
Process: FB2

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Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Item 122.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For each organic HAP process vent, other than process vents from storage tanks, the owner or operator must limit organic HAP emissions to the level specified in paragraph (1) below. These limitations can be met by venting emissions from the process vent through a closed vent system to any combination of control devices meeting the requirements of § 63.982(a)(2)

(1) Reduce the emissions of organic HAP from the process vent stream by 98 percent by weight.

Parameter Monitored: ORGANIC HAPS

Lower Permit Limit: 98 percent reduction by weight

Reference Test Method: See Table 1 to Subpart BBBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 123: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184(b), Subpart BBBBBB

Item 123.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

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Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Item 123.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For each organic HAP process vent, other than process vents from storage tanks, the owner or operator must limit organic HAP emissions to the level specified in paragraph (2) below. These limitations can be met by venting emissions from the process vent through a closed vent system to any combination of control devices meeting the requirements of § 63.982(a)(2).

(2) Reduce or maintain the concentration of emitted organic HAP from the process vent to less than or equal to 20 parts per million by volume (ppmv).

Parameter Monitored: ORGANIC HAPS

Upper Permit Limit: 20 parts per million (by volume)

Reference Test Method: See Table 1 to Subpart BBBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 124: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184(c), Subpart BBBBBB

Item 124.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 2-FABOP
Process: FA2

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Emission Unit: 2-FABOP
Process: FC2

Item 124.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For each inorganic HAP process vent, other than process vents from storage tanks, the owner or operator must limit inorganic HAP emissions to the level specified in paragraph (1) below. These limitations can be met by venting emissions from the process vent through a closed vent system to a halogen scrubber meeting the requirements of §§ 63.983 (closed vent system requirements) and § 63.994 (halogen scrubber requirements); the applicable general monitoring requirements of § 63.996; the applicable performance test requirements; and the monitoring, recordkeeping and reporting requirements referenced therein

(1) Reduce the emissions of inorganic HAP from the process vent stream by 95 percent by weight.

Parameter Monitored: INORGANIC HAPS

Lower Permit Limit: 95 percent reduction by weight

Reference Test Method: See Table 1 to Subpart BBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 125: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184(c), Subpart BBBBB

Item 125.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 2-FABOP

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Process: FA2

Emission Unit: 2-FABOP

Process: FC2

Item 125.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For each inorganic HAP process vent, other than process vents from storage tanks, the owner or operator must limit inorganic HAP emissions to the level specified in paragraph (2) below. These limitations can be met by venting emissions from the process vent through a closed vent system to a halogen scrubber meeting the requirements of §§ 63.983 (closed vent system requirements) and § 63.994 (halogen scrubber requirements); the applicable general monitoring requirements of § 63.996; the applicable performance test requirements; and the monitoring, recordkeeping and reporting requirements referenced therein.

(2) Reduce or maintain the concentration of emitted inorganic HAP from the process vent to less than or equal to 0.42 ppmv.

Parameter Monitored: INORGANIC HAPS

Upper Permit Limit: 0.42 parts per million (by volume)

Reference Test Method: See Table 1 to Subpart BBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 126: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 40CFR 63.7184(d), Subpart BBBBB****Item 126.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-HPMCU

Process: HA1

Emission Unit: 1-HPMCU

Process: HA2

Emission Unit: 1-HPMCU

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Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Item 126.2:

Compliance Certification shall include the following monitoring:

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

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Monitoring Description:

For each storage tank, 1,500 gallons or larger, the owner or operator must limit total HAP emissions to the level specified in paragraph (1) below if the emissions from the storage tank vent contains greater than 0.42 ppmv inorganic HAP. These limitations can be met by venting emissions from the storage tank through a closed vent system to a halogen scrubber meeting the requirements of §§ 63.983 (closed vent system requirements) and 63.994 (halogen scrubber requirements); the applicable general monitoring requirements of § 63.996; the applicable performance test requirements; and the monitoring, recordkeeping and reporting requirements referenced therein

(1) Reduce the emissions of inorganic HAP from each storage tank by 95 percent by weight.

Parameter Monitored: INORGANIC HAPS

Lower Permit Limit: 95 percent reduction by weight

Reference Test Method: See Table 1 to Subpart BBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 127: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 40CFR 63.7184(d), Subpart BBBBB****Item 127.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-HPMCU

Process: HA1

Emission Unit: 1-HPMCU

Process: HA2

Emission Unit: 1-HPMCU

Process: HB1

Emission Unit: 1-HPMCU

Process: HB2

Emission Unit: 1-HPMCU

Process: HS1

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Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Item 127.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For each storage tank, 1,500 gallons or larger, the owner or operator must limit total HAP emissions to the level specified in paragraph (2) below if the emissions from the storage tank vent contains greater than 0.42 ppmv inorganic HAP. These limitations can be met by venting emissions from the storage tank through a closed vent system to a halogen scrubber meeting the requirements of

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§§ 63.983 (closed vent system requirements) and 63.994 (halogen scrubber requirements); the applicable general monitoring requirements of § 63.996; the applicable performance test requirements; and the monitoring, recordkeeping and reporting requirements referenced therein.

(2) Reduce or maintain the concentration of emitted inorganic HAP from the process vent to less than or equal to 0.42 ppmv.

Parameter Monitored: INORGANIC HAPS

Upper Permit Limit: 0.42 parts per million (by volume)

Reference Test Method: See Table 1 to Subpart BBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 128: Work practice standards and operating limits
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184(e), Subpart BBBBB

Item 128.1:

The owner or operator must comply with the applicable work practice standards and operating limits contained in § 63.982(a)(1) and (2). The closed vent system inspection requirements of § 63.983(c), as referenced by § 63.982(a)(1) and (2), do not apply.

Condition 129: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7184(f), Subpart BBBBB

Item 129.1:

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

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 2-FABOP
Process: FB2

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Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 129.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For each combined HAP process vent, other than process vents from storage tanks, the owner or operator must reduce or maintain the concentration of emitted HAP from the process vent to less than or equal to 14.22 ppmv. These limitations can be met by venting emissions from the process vent through a closed vent system to any combination of control devices meeting the requirements of § 63.982(a)(2).

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 14.22 parts per million (by volume)

Reference Test Method: See Table 1 to 40 CFR 63 Subpart BBBBBB

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 130: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7185(c), Subpart BBBBBB

Item 130.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

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Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

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Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Item 130.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source must develop a written startup, shutdown, and malfunction plan that is prepared in accordance with the provisions in § 63.6(e)(3).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 131: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7185(d), Subpart BBBBB

Item 131.1:

The Compliance Certification activity will be performed for the Facility.

Item 131.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source must perform the following items

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(1) Submit the necessary notifications in accordance with
§ 63.7189.

(2) Submit the necessary reports in accordance with §
63.7190

(3) Maintain all necessary records used to demonstrate
compliance with 40 CFR 63 Subpart BBBBBB in accordance with
§ 63.7191.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 132: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7186, Subpart BBBBBB

Item 132.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

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Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU

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Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Item 132.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each process vent or storage tank vent emission limitation in § 63.7184 for which initial compliance is demonstrated by meeting a percent by weight HAP emissions reduction, or a HAP concentration limitation, the owner or operator of the affected source must conduct performance tests or an initial compliance demonstration within 180 days after the compliance date that is specified for the source in § 63.7183 and according to the provisions in § 63.7(a)(2) unless sufficient justification for a later test date is provided to the Department and Administrator in writing.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 133: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 63.7187(a), Subpart BBBBB

Item 133.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

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Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

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Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 133.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must conduct each performance test in Table 1 to this subpart that is applicable to the affected source as specified for process vents in § 63.982(a)(2) and storage tanks in § 63.982(a)(1). Performance tests must be conducted under maximum operating conditions or HAP emissions potential. Section 63.982(a)(1) and (2) only includes methods to measure the total organic regulated material or total organic carbon (TOC) concentration. The EPA Methods 26 and 26A are included in Table 1 to this subpart in addition to the test methods contained within § 63.982(a)(1) and (2). The EPA Method 26 or 26A must be used for testing regulated material containing inorganic HAP. Method 320 of 40 CFR part 63, appendix A, must be used to measure total vapor phase organic and inorganic HAP concentrations.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 134: Compliance Certification
Effective for entire length of Permit

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Applicable Federal Requirement: 40 CFR 63.7187(e), Subpart BBBBB

Item 134.1:

The Compliance Certification activity will be performed for the Facility.

Item 134.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each monitoring system required in this section, the owner or operator must develop and submit for approval a site-specific monitoring plan that addresses the criteria specified in paragraphs (1) through (3) below and the information required by 40 CFR 63.7187(f)

(1) Installation of the continuous monitoring system (CMS) sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device)

(2) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

(3) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 135: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40 CFR 63.7187(g), Subpart BBBBB

Item 135.1:

The Compliance Certification activity will be performed for the Facility.

Item 135.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 136: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7187(i)(4), Subpart BBBBB

Item 136.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY515-00-0 INORGANIC HAPS

Item 136.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To demonstrate that a control device meets the required percent by weight inorganic HAP emission reduction limitation in § 63.7184(c)(1) or § 63.7184(d)(1), a design evaluation must address the composition of the inorganic HAP concentration of the vent stream entering the control device. A design evaluation also must address other vent stream characteristics and control device operating parameters as specified below. If the vent stream is not the only inlet to the control device, the efficiency demonstration must also consider all other vapors, gases, and liquids, other than fuels, received by the control device.

For a scrubber, the design evaluation shall consider the vent stream composition, constituent concentrations, liquid-to-vapor ratio, scrubbing liquid flow rate and concentration, temperature, and the reaction kinetics of the constituents with the scrubbing liquid. The design evaluation shall establish the design exhaust vent stream organic compound concentration level and will include the additional information in paragraphs (i) and (ii) below

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for trays and a packed column scrubber.

(i) Type and total number of theoretical and actual trays

(ii) Type and total surface area of packing for entire column, and for individual packed sections if column contains more than one packed section.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 137: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7188(b), Subpart BBBBB

Item 137.1:

The Compliance Certification activity will be performed for the Facility.

Item 137.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator of an affected source complies with the emission limitations of § 63.7184 by venting the emissions of a semiconductor process vent through a closed vent system to a control device, the owner or operator must meet the monitoring, installation, operation, and maintenance requirements specified for closed vent systems and applicable control devices in §§ 63.983 through 63.995. If the design evaluation procedure in § 63.7187(i) is used to demonstrate compliance, the information from the design evaluation must be used to establish the operating parameter level for monitoring of the control device.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 138: Compliance Certification

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Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7189(c), Subpart BBBBB

Item 138.1:

The Compliance Certification activity will be performed for the Facility.

Item 138.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As specified in § 63.9(b)(3), if an owner or operator starts up a new or reconstructed affected source on or after May 22, 2003, an Initial Notification must be submitted not later than 120 calendar days after they become subject to 40 CFR 63 Subpart BBBBB.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 139: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7189(d), Subpart BBBBB

Item 139.1:

The Compliance Certification activity will be performed for the Facility.

Item 139.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator is required to conduct a performance test, a notification of intent to conduct a performance test must be submitted at least 60 calendar days before the performance test is scheduled to begin as required in § 63.7(b)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 140: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7190(a)(1), Subpart BBBBB

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Item 140.1:

The Compliance Certification activity will be performed for the Facility.

Item 140.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source must submit a periodic compliance report that contains the information required under paragraphs § 63.7190(c) through § 63.7190(e), and any requirements specified to be reported for process vents in § 63.982(a)(2) and storage tanks in § 63.982(a)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 141: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7190(a)(2), Subpart BBBBB

Item 141.1:

The Compliance Certification activity will be performed for the Facility.

Item 141.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source must submit an Immediate Startup, Shutdown, and Malfunction Report if there was a startup, shutdown, or malfunction during the reporting period that is not consistent with the Startup, Shutdown, and Malfunction Plan (SSMP). This report must contain actions taken during the event. This report must be submitted by e-mail or telephone within 2 working days after starting actions inconsistent with the SSMP. The owner or operator of an affected source is required to follow up this report with a report specifying the information in § 63.10(d)(5)(ii) by letter within 7 working days after the end of the event unless you have made alternative arrangements with the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 142: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7190(b), Subpart BBBBB

Item 142.1:

The Compliance Certification activity will be performed for the Facility.

Item 142.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Unless the Department has approved a different schedule for submission of reports under § 63.10(a), the owner or operator must submit each report by the date according to paragraphs (1) through (5) of this section

(1) The first periodic compliance report must cover the period beginning on the compliance date that is specified for the affected source in § 63.7183 and ending on June 30 or December 31, whichever date is the first date following the end of the first 12 calendar months after the compliance date that is specified for your source in § 63.7183

(2) The first periodic compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first 12 calendar months after the compliance date that is specified for the affected source in § 63.7183

(3) Each subsequent periodic compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent periodic compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period

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(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the Department has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), the first and subsequent periodic compliance reports may be submitted according to the dates the Department has established instead of according to the dates in paragraphs (1) through (4) of this section.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 143: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7190(c), Subpart BBBBB

Item 143.1:

The Compliance Certification activity will be performed for the Facility.

Item 143.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The periodic compliance report must contain the information specified in paragraphs (1) through (5) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period

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(4) If there are no deviations from any emission limitations that apply, a statement that there were no deviations from the emission limitations during the reporting period and that no CMS was inoperative, inactive, malfunctioning, out-of-control, repaired, or adjusted

(5) If there was a startup, shutdown, or malfunction during the reporting period and actions were taken consistent with the startup, shutdown, and malfunction plan, the periodic compliance report must include the information in § 63.10(d)(5) for each startup, shutdown, and malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 144: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7190(d), Subpart BBBBB

Item 144.1:

The Compliance Certification activity will be performed for the Facility.

Item 144.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each deviation from an emission limitation that occurs at an affected source where a CMS is not used to comply with the emission limitations, the periodic compliance report must contain the information in paragraphs (1) and (2) below.

(1) The total operating time of each affected source during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause), if applicable.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 145: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7190(e), Subpart BBBBB

Item 145.1:

The Compliance Certification activity will be performed for the Facility.

Item 145.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each deviation from an emission limitation occurring at an affected source where a CMS is used to demonstrate compliance with the emission limitation, the information in paragraphs (1) through (8) below must be included.

(1) The date and time that each malfunction started and stopped, and the reason it was inoperative

(2) The date and time that each CMS was inoperative, except for calibration checks

(3) The date and time that each CMS was out-of-control, including the information in § 63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period, and the cause of the deviation.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

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(6) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total source operating time during the reporting period.

(7) An identification of each HAP that was monitored at the affected source.

(8) The date of the latest CMS certification or audit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 146: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7191(b), Subpart BBBBB

Item 146.1:

The Compliance Certification activity will be performed for the Facility.

Item 146.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each CMS, the owner or operator must keep the records listed in paragraphs (1) through (5) of this section.

(1) Records described in § 63.10(b)(2)(vi) through § 63.10(b)(2)(xi)

(2) All required measurements needed to demonstrate compliance with a relevant standard (e.g., 30-minute averages of CMS data, raw performance testing measurements, raw performance evaluation measurements).

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(3) All required CMS measurements (including monitoring data recorded during unavoidable CMS breakdowns and out-of-control periods).

(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period

(5) Records for process vents according to the requirements specified in § 63.982(a)(2) and storage tank vents according to the requirements specified in § 63.982(a)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 147: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7192(b), Subpart BBBBB

Item 147.1:

The Compliance Certification activity will be performed for the Facility.

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As specified in § 63.10(b)(1), the owner or operator of an affected source must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 148: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7192(c), Subpart BBBBB

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Item 148.1:

The Compliance Certification activity will be performed for the Facility.

Item 148.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1). These records can be kept offsite for the remaining 3 years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 149: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 63.7515(d), Subpart DDDDD

Item 149.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP
Process: BL1

Emission Unit: 1-CMBOP
Process: WV1

Emission Unit: 2-CMBOP
Process: BL2

Emission Unit: 2-CMBOP
Process: WV2

Item 149.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility owners or operators required to meet an applicable tune-up work practice standard must conduct an annual, biennial, or 5-year performance tune-up according to 40 CFR §63.7540(a)(10), (11), or (12), respectively.

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Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up.

Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up.

Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up.

For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial start-up of the new or reconstructed affected source, whichever is later.

The owner or operator of an affected source must report the date of completion of the prescribed tune-up within 30 days of the occurrence.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 150: Notification Requirements
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7545(a), Subpart DDDDD

Item 150.1:

This Condition applies to:

Emission Unit: 1CMBOP
Process: BL1

Emission Unit: 1CMBOP
Process: WV1

Emission Unit: 2CMBOP
Process: BL2

Emission Unit: 2CMBOP
Process: WV2

Item 150.2:

The facility owner or operator must submit all of the notifications required by 40 CFR 63 Sections 63.7(b), 63.7(c), 63.8(e), 63.8(f)(4), 63.8(f)(6), and 63.9(b) - (h), as applicable, by the

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dates specified in those sections.

Condition 151: Use of alternative fuel notification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7545(f), Subpart DDDDD

Item 151.1:

This Condition applies to:

Emission Unit: 1CMBOP
Process: BL1

Emission Unit: 1CMBOP
Process: WV1

Emission Unit: 2CMBOP
Process: BL2

Emission Unit: 2CMBOP
Process: WV2

Item 151.2:

Owners and operators that operate a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to subpart DDDDD, and intend to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of part 60, 61, 63, or 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575 must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (1) through (5).

- (1) Company name and address.
- (2) Identification of the affected unit.
- (3) Reason unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.
- (4) Type of alternative fuel that he/she intends to use.
- (5) Dates when the alternative fuel use is expected to begin and end.

Condition 152: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.7550(b), Subpart DDDDD

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Item 152.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CMBOP

Process: BL1

Emission Unit: 1-CMBOP

Process: WV1

Emission Unit: 2-CMBOP

Process: BL2

Emission Unit: 2-CMBOP

Process: WV2

Item 152.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the owner or operator must submit each report, according to 40 CFR 63.7550(h), by the date in Table 9 to subpart DDDDD and according to the requirements in paragraphs (1) through (4). For units that are subject only to a requirement to conduct subsequent annual, biennial, or 5-year tune-up according to 40 CFR 63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or Table 4 operating limits, the owner or operator may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (1) through (4), instead of a semi-annual compliance report.

(1) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for the owner or operator's source in 40 CFR 63.7495. If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date that is specified for the owner or operator's source in 40 CFR 63.7495.

(2) The first semi-annual compliance report must be

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postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.

(3) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

(4) Each subsequent semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

(5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), the owner or operator may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in paragraphs (1) through (4).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 153: Applicability
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63, Subpart ZZZZ

Item 153.1:

This Condition applies to:

Emission Unit: 1CMBOP
Process: DFP

Emission Unit: 1CMBOP
Process: EM1

Emission Unit: 2CMBOP

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Process: EM2

Item 153.2:

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

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

Condition 154: Emission Point Definition By Emission Unit
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6**Item 154.1:**

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

Emission Unit: 1-ADMPR

Emission Point: 1A001

Height (ft.): 114

Diameter (in.): 20

NYTMN (km.): 4782.59

NYTME (km.): 405.522

Building: PROBE1

Emission Point: 1A002

Height (ft.): 114

Diameter (in.): 20

NYTMN (km.): 4782.586

NYTME (km.): 405.519

Building: PROBE1

Emission Point: 1A003

Height (ft.): 114

Diameter (in.): 12

NYTMN (km.): 4782.581

NYTME (km.): 405.515

Building: PROBE1

Emission Point: 1A004

Height (ft.): 114

Diameter (in.): 12

NYTMN (km.): 4782.58

NYTME (km.): 405.514

Building: PROBE1

Item 154.2:

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

Emission Unit: 1-CMBOP

Emission Point: 1FP01

Height (ft.): 26

Diameter (in.): 8

NYTMN (km.): 4783.338

NYTME (km.): 405.756

Building: MPH1

Emission Point: 1U001

Height (ft.): 71

Diameter (in.): 24

NYTMN (km.): 4782.84

NYTME (km.): 405.548

Building: CUB1

Emission Point: 1U002

Height (ft.): 71

Diameter (in.): 24

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NYTMN (km.): 4782.831	NYTME (km.): 405.541	Building: CUB1
Emission Point: 1U003		
Height (ft.): 71	Diameter (in.): 24	
NYTMN (km.): 4782.824	NYTME (km.): 405.536	Building: CUB1
Emission Point: 1U004		
Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.278	NYTME (km.): 406.129	
Emission Point: 1U005		
Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.273	NYTME (km.): 406.137	
Emission Point: 1U006		
Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.244	NYTME (km.): 406.176	
Emission Point: 1U007		
Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.241	NYTME (km.): 406.18	
Emission Point: 1U008		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.951	NYTME (km.): 405.509	Building: CUB1
Emission Point: 1U009		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.95	NYTME (km.): 405.508	Building: CUB1
Emission Point: 1U010		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.948	NYTME (km.): 405.507	Building: CUB1
Emission Point: 1U011		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.942	NYTME (km.): 405.503	Building: CUB1
Emission Point: 1U012		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.941	NYTME (km.): 405.502	Building: CUB1
Emission Point: 1U013		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.94	NYTME (km.): 405.501	Building: CUB1
Emission Point: 1U014		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.925	NYTME (km.): 405.49	Building: CUB1
Emission Point: 1U015		
Height (ft.): 69	Diameter (in.): 35	

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NYTMN (km.): 4782.923	NYTME (km.): 405.489	Building: CUB1
Emission Point: 1U016		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.922	NYTME (km.): 405.488	Building: CUB1
Emission Point: 1U017		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.91	NYTME (km.): 405.479	Building: CUB1
Emission Point: 1U018		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.908	NYTME (km.): 405.478	Building: CUB1
Emission Point: 1U019		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.907	NYTME (km.): 405.477	Building: CUB1
Emission Point: 1U020		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.897	NYTME (km.): 405.47	Building: CUB1
Emission Point: 1U021		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.896	NYTME (km.): 405.469	Building: CUB1
Emission Point: 1U022		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.894	NYTME (km.): 405.468	Building: CUB1
Emission Point: 1U023		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4782.881	NYTME (km.): 405.459	Building: CUB1
Emission Point: 1U024		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4782.88	NYTME (km.): 405.458	Building: CUB1
Emission Point: 1U025		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4782.87	NYTME (km.): 405.45	Building: CUB1
Emission Point: 1U026		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4782.868	NYTME (km.): 405.449	Building: CUB1
Emission Point: 1U027		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4782.861	NYTME (km.): 405.444	Building: CUB1
Emission Point: 1U028		
Height (ft.): 69	Diameter (in.): 28	

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NYTMN (km.): 4782.859	NYTME (km.): 405.443	Building: CUB1
Emission Point: 1U029		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.852	NYTME (km.): 405.437	Building: CUB1
Emission Point: 1U030		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.85	NYTME (km.): 405.436	Building: CUB1
Emission Point: 1U031		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.849	NYTME (km.): 405.436	Building: CUB1
Emission Point: 1U032		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4783.115	NYTME (km.): 405.627	Building: CUB1
Emission Point: 1U033		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4783.114	NYTME (km.): 405.626	Building: CUB1
Emission Point: 1U034		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4783.108	NYTME (km.): 405.621	Building: CUB1
Emission Point: 1U035		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4783.106	NYTME (km.): 405.62	Building: CUB1
Emission Point: 1U036		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.094	NYTME (km.): 405.612	Building: CUB1
Emission Point: 1U037		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.093	NYTME (km.): 405.611	Building: CUB1
Emission Point: 1U038		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.092	NYTME (km.): 405.61	Building: CUB1
Emission Point: 1U039		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.08	NYTME (km.): 405.601	Building: CUB1
Emission Point: 1U040		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.079	NYTME (km.): 405.601	Building: CUB1
Emission Point: 1U041		
Height (ft.): 69	Diameter (in.): 35	

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NYTMN (km.): 4783.077	NYTME (km.): 405.599	Building: CUB1
Emission Point: 1U042		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.068	NYTME (km.): 405.593	Building: CUB1
Emission Point: 1U043		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.066	NYTME (km.): 405.592	Building: CUB1
Emission Point: 1U044		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.065	NYTME (km.): 405.591	Building: CUB1
Emission Point: 1U045		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.053	NYTME (km.): 405.582	Building: CUB1
Emission Point: 1U046		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.052	NYTME (km.): 405.581	Building: CUB1
Emission Point: 1U047		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.05	NYTME (km.): 405.58	Building: CUB1
Emission Point: 1U048		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.041	NYTME (km.): 405.573	Building: CUB1
Emission Point: 1U049		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.039	NYTME (km.): 405.572	Building: CUB1
Emission Point: 1U050		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.038	NYTME (km.): 405.571	Building: CUB1
Emission Point: 1U051		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.026	NYTME (km.): 405.563	Building: CUB1
Emission Point: 1U052		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.025	NYTME (km.): 405.562	Building: CUB1
Emission Point: 1U053		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4783.023	NYTME (km.): 405.561	Building: CUB1
Emission Point: 1U054		
Height (ft.): 69	Diameter (in.): 28	

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NYTMN (km.): 4783.016	NYTME (km.): 405.555	Building: CUB1
Emission Point: 1U055		
Height (ft.): 69	Diameter (in.): 28	
NYTMN (km.): 4783.014	NYTME (km.): 405.554	Building: CUB1
Emission Point: 1U056		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.691	NYTME (km.): 405.851	
Emission Point: 1U057		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.687	NYTME (km.): 405.856	
Emission Point: 1U058		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.784	NYTME (km.): 405.918	
Emission Point: 1U059		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.781	NYTME (km.): 405.923	
Emission Point: 1U060		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4783.688	NYTME (km.): 405.444	
Emission Point: 1U061		
Height (ft.): 11	Diameter (in.): 8	
NYTMN (km.): 4783.128	NYTME (km.): 406.049	
Emission Point: 1U062		
Height (ft.): 11	Diameter (in.): 8	
NYTMN (km.): 4783.211	NYTME (km.): 406.107	
Emission Point: 1U063		
Height (ft.): 124	Diameter (in.): 24	
NYTMN (km.): 4782.532	NYTME (km.): 405.643	Building: PROBE1
Emission Point: 1U064		
Height (ft.): 124	Diameter (in.): 24	
NYTMN (km.): 4782.539	NYTME (km.): 405.634	Building: PROBE1
Emission Point: 1U065		
Height (ft.): 124	Diameter (in.): 24	
NYTMN (km.): 4782.545	NYTME (km.): 405.625	Building: PROBE1
Emission Point: 1U066		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4783.723	NYTME (km.): 405.517	
Emission Point: 1U067		
Height (ft.): 28	Diameter (in.): 20	

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NYTMN (km.): 4783.779 NYTME (km.): 405.514

Item 154.3:

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

Emission Unit: 1-FABOP

Emission Point: 1F001

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.844

NYTME (km.): 405.65

Building: FAB1

Emission Point: 1F002

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.829

NYTME (km.): 405.634

Building: FAB1

Emission Point: 1F003

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.819

NYTME (km.): 405.633

Building: FAB1

Emission Point: 1F004

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.807

NYTME (km.): 405.624

Building: FAB1

Emission Point: 1F005

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.796

NYTME (km.): 405.616

Building: FAB1

Emission Point: 1F006

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.712

NYTME (km.): 405.556

Building: FAB1

Emission Point: 1F007

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.694

NYTME (km.): 405.543

Building: FAB1

Emission Point: 1F008

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.689

NYTME (km.): 405.539

Building: FAB1

Emission Point: 1F009

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.677

NYTME (km.): 405.53

Building: FAB1

Emission Point: 1F010

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.659

NYTME (km.): 405.517

Building: FAB1

Emission Point: 1F011

Height (ft.): 154

Diameter (in.): 50

NYTMN (km.): 4782.766

NYTME (km.): 405.759

Building: FAB1

Emission Point: 1F012

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Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.751	NYTME (km.): 405.748	Building: FAB1
Emission Point: 1F013		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.741	NYTME (km.): 405.741	Building: FAB1
Emission Point: 1F014		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.73	NYTME (km.): 405.733	Building: FAB1
Emission Point: 1F015		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.718	NYTME (km.): 405.724	Building: FAB1
Emission Point: 1F016		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.635	NYTME (km.): 405.664	Building: FAB1
Emission Point: 1F017		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.617	NYTME (km.): 405.652	Building: FAB1
Emission Point: 1F018		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.611	NYTME (km.): 405.647	Building: FAB1
Emission Point: 1F019		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.599	NYTME (km.): 405.639	Building: FAB1
Emission Point: 1F020		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.581	NYTME (km.): 405.626	Building: FAB1
Emission Point: 1F021		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.112	NYTME (km.): 405.843	Building: FAB1
Emission Point: 1F022		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.095	NYTME (km.): 405.83	Building: FAB1
Emission Point: 1F023		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.082	NYTME (km.): 405.822	Building: FAB1
Emission Point: 1F024		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.077	NYTME (km.): 405.818	Building: FAB1
Emission Point: 1F025		

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Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.059	NYTME (km.): 405.805	Building: FAB1
Emission Point: 1F026		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.976	NYTME (km.): 405.746	Building: FAB1
Emission Point: 1F027		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.97	NYTME (km.): 405.741	Building: FAB1
Emission Point: 1F028		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.952	NYTME (km.): 405.728	Building: FAB1
Emission Point: 1F029		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.939	NYTME (km.): 405.719	Building: FAB1
Emission Point: 1F030		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.921	NYTME (km.): 405.706	Building: FAB1
Emission Point: 1F031		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.034	NYTME (km.): 405.952	Building: FAB1
Emission Point: 1F032		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.017	NYTME (km.): 405.939	Building: FAB1
Emission Point: 1F033		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4783.005	NYTME (km.): 405.931	Building: FAB1
Emission Point: 1F034		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.999	NYTME (km.): 405.926	Building: FAB1
Emission Point: 1F035		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.981	NYTME (km.): 405.914	Building: FAB1
Emission Point: 1F036		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.898	NYTME (km.): 405.854	Building: FAB1
Emission Point: 1F037		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.892	NYTME (km.): 405.849	Building: FAB1
Emission Point: 1F038		

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Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.875	NYTME (km.): 405.836	Building: FAB1
Emission Point: 1F039		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.861	NYTME (km.): 405.827	Building: FAB1
Emission Point: 1F040		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.844	NYTME (km.): 405.814	Building: FAB1
Emission Point: 1F041		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.707	NYTME (km.): 405.548	Building: FAB1
Emission Point: 1F042		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.705	NYTME (km.): 405.547	Building: FAB1
Emission Point: 1F043		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.671	NYTME (km.): 405.522	Building: FAB1
Emission Point: 1F044		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.67	NYTME (km.): 405.521	Building: FAB1
Emission Point: 1F045		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.626	NYTME (km.): 405.661	Building: FAB1
Emission Point: 1F046		
Height (ft.): 170	Diameter (in.): 23	
NYTMN (km.): 4782.624	NYTME (km.): 405.66	Building: FAB1
Emission Point: 1F047		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.59	NYTME (km.): 405.636	Building: FAB1
Emission Point: 1F048		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.588	NYTME (km.): 405.635	Building: FAB1
Emission Point: 1F049		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.964	NYTME (km.): 405.733	Building: FAB1
Emission Point: 1F050		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.963	NYTME (km.): 405.732	Building: FAB1
Emission Point: 1F051		

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Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.934	NYTME (km.): 405.711	Building: FAB1
Emission Point: 1F052		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.932	NYTME (km.): 405.71	Building: FAB1
Emission Point: 1F053		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.883	NYTME (km.): 405.846	Building: FAB1
Emission Point: 1F054		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.881	NYTME (km.): 405.845	Building: FAB1
Emission Point: 1F055		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.852	NYTME (km.): 405.825	Building: FAB1
Emission Point: 1F056		
Height (ft.): 170	Diameter (in.): 37	
NYTMN (km.): 4782.851	NYTME (km.): 405.824	Building: FAB1
Emission Point: 1F057		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.841	NYTME (km.): 405.645	Building: FAB1
Emission Point: 1F058		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.835	NYTME (km.): 405.64	Building: FAB1
Emission Point: 1F059		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.816	NYTME (km.): 405.625	Building: FAB1
Emission Point: 1F060		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.803	NYTME (km.): 405.617	Building: FAB1
Emission Point: 1F061		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.759	NYTME (km.): 405.758	Building: FAB1
Emission Point: 1F062		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.753	NYTME (km.): 405.754	Building: FAB1
Emission Point: 1F063		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.734	NYTME (km.): 405.74	Building: FAB1
Emission Point: 1F064		

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Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.721	NYTME (km.): 405.731	Building: FAB1
Emission Point: 1F065		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4783.108	NYTME (km.): 405.836	Building: FAB1
Emission Point: 1F066		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4783.103	NYTME (km.): 405.832	Building: FAB1
Emission Point: 1F067		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4783.075	NYTME (km.): 405.813	Building: FAB1
Emission Point: 1F068		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4783.066	NYTME (km.): 405.806	Building: FAB1
Emission Point: 1F069		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4783.026	NYTME (km.): 405.95	Building: FAB1
Emission Point: 1F070		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4783.021	NYTME (km.): 405.946	Building: FAB1
Emission Point: 1F071		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.994	NYTME (km.): 405.926	Building: FAB1
Emission Point: 1F072		
Height (ft.): 154	Diameter (in.): 36	
NYTMN (km.): 4782.985	NYTME (km.): 405.92	Building: FAB1
Emission Point: 1F073		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.792	NYTME (km.): 405.59	Building: FAB1
Emission Point: 1F074		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.776	NYTME (km.): 405.601	Building: FAB1
Emission Point: 1F075		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.785	NYTME (km.): 405.585	Building: FAB1
Emission Point: 1F076		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.77	NYTME (km.): 405.596	Building: FAB1
Emission Point: 1F077		

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Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.779	NYTME (km.): 405.581	Building: FAB1
Emission Point: 1F078		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.763	NYTME (km.): 405.592	Building: FAB1
Emission Point: 1F079		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.772	NYTME (km.): 405.576	Building: FAB1
Emission Point: 1F080		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.757	NYTME (km.): 405.587	Building: FAB1
Emission Point: 1F081		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.766	NYTME (km.): 405.571	Building: FAB1
Emission Point: 1F082		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.75	NYTME (km.): 405.582	Building: FAB1
Emission Point: 1F083		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.759	NYTME (km.): 405.567	Building: FAB1
Emission Point: 1F084		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.744	NYTME (km.): 405.578	Building: FAB1
Emission Point: 1F085		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.753	NYTME (km.): 405.562	Building: FAB1
Emission Point: 1F086		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.737	NYTME (km.): 405.573	Building: FAB1
Emission Point: 1F087		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.747	NYTME (km.): 405.557	Building: FAB1
Emission Point: 1F088		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.73	NYTME (km.): 405.569	Building: FAB1
Emission Point: 1F089		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.74	NYTME (km.): 405.553	Building: FAB1
Emission Point: 1F090		

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Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.724	NYTME (km.): 405.564	Building: FAB1
Emission Point: 1F091		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.691	NYTME (km.): 405.729	Building: FAB1
Emission Point: 1F092		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.698	NYTME (km.): 405.71	Building: FAB1
Emission Point: 1F093		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.685	NYTME (km.): 405.724	Building: FAB1
Emission Point: 1F094		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.691	NYTME (km.): 405.705	Building: FAB1
Emission Point: 1F095		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.678	NYTME (km.): 405.72	Building: FAB1
Emission Point: 1F096		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.685	NYTME (km.): 405.701	Building: FAB1
Emission Point: 1F097		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.672	NYTME (km.): 405.715	Building: FAB1
Emission Point: 1F098		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.678	NYTME (km.): 405.696	Building: FAB1
Emission Point: 1F099		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.666	NYTME (km.): 405.71	Building: FAB1
Emission Point: 1F100		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.672	NYTME (km.): 405.691	Building: FAB1
Emission Point: 1F101		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.659	NYTME (km.): 405.705	Building: FAB1
Emission Point: 1F102		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.665	NYTME (km.): 405.687	Building: FAB1
Emission Point: 1F103		

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Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.653	NYTME (km.): 405.701	Building: FAB1
Emission Point: 1F104		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.659	NYTME (km.): 405.682	Building: FAB1
Emission Point: 1F105		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.646	NYTME (km.): 405.696	Building: FAB1
Emission Point: 1F106		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.652	NYTME (km.): 405.678	Building: FAB1
Emission Point: 1F107		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.64	NYTME (km.): 405.692	Building: FAB1
Emission Point: 1F108		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.646	NYTME (km.): 405.673	Building: FAB1
Emission Point: 1F109		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.055	NYTME (km.): 405.781	Building: FAB1
Emission Point: 1F110		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.047	NYTME (km.): 405.792	Building: FAB1
Emission Point: 1F111		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.049	NYTME (km.): 405.776	Building: FAB1
Emission Point: 1F112		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.04	NYTME (km.): 405.787	Building: FAB1
Emission Point: 1F113		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.043	NYTME (km.): 405.771	Building: FAB1
Emission Point: 1F114		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.034	NYTME (km.): 405.783	Building: FAB1
Emission Point: 1F115		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.037	NYTME (km.): 405.767	Building: FAB1
Emission Point: 1F116		

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Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.028	NYTME (km.): 405.778	Building: FAB1
Emission Point: 1F117		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.03	NYTME (km.): 405.762	Building: FAB1
Emission Point: 1F118		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.021	NYTME (km.): 405.774	Building: FAB1
Emission Point: 1F119		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.024	NYTME (km.): 405.757	Building: FAB1
Emission Point: 1F120		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.015	NYTME (km.): 405.769	Building: FAB1
Emission Point: 1F121		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.018	NYTME (km.): 405.753	Building: FAB1
Emission Point: 1F122		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.008	NYTME (km.): 405.764	Building: FAB1
Emission Point: 1F123		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.011	NYTME (km.): 405.748	Building: FAB1
Emission Point: 1F124		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4783.002	NYTME (km.): 405.76	Building: FAB1
Emission Point: 1F125		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4783.005	NYTME (km.): 405.743	Building: FAB1
Emission Point: 1F126		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.995	NYTME (km.): 405.755	Building: FAB1
Emission Point: 1F127		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.957	NYTME (km.): 405.918	Building: FAB1
Emission Point: 1F128		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.965	NYTME (km.): 405.906	Building: FAB1
Emission Point: 1F129		

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Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.951	NYTME (km.): 405.914	Building: FAB1
Emission Point: 1F130		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.958	NYTME (km.): 405.901	Building: FAB1
Emission Point: 1F131		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.944	NYTME (km.): 405.909	Building: FAB1
Emission Point: 1F132		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.952	NYTME (km.): 405.896	Building: FAB1
Emission Point: 1F133		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.938	NYTME (km.): 405.904	Building: FAB1
Emission Point: 1F134		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.946	NYTME (km.): 405.892	Building: FAB1
Emission Point: 1F135		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.931	NYTME (km.): 405.9	Building: FAB1
Emission Point: 1F136		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.939	NYTME (km.): 405.888	Building: FAB1
Emission Point: 1F137		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.925	NYTME (km.): 405.895	Building: FAB1
Emission Point: 1F138		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.933	NYTME (km.): 405.883	Building: FAB1
Emission Point: 1F139		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.918	NYTME (km.): 405.89	Building: FAB1
Emission Point: 1F140		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.927	NYTME (km.): 405.878	Building: FAB1
Emission Point: 1F141		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.912	NYTME (km.): 405.886	Building: FAB1
Emission Point: 1F142		

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Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.92	NYTME (km.): 405.874	Building: FAB1
Emission Point: 1F143		
Height (ft.): 154	Diameter (in.): 40	
NYTMN (km.): 4782.906	NYTME (km.): 405.881	Building: FAB1
Emission Point: 1F144		
Height (ft.): 154	Diameter (in.): 10	
NYTMN (km.): 4782.913	NYTME (km.): 405.869	Building: FAB1
Emission Point: 1F145		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.846	NYTME (km.): 405.66	Building: FAB1
Emission Point: 1F146		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.834	NYTME (km.): 405.652	Building: FAB1
Emission Point: 1F147		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.821	NYTME (km.): 405.642	Building: FAB1
Emission Point: 1F148		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.81	NYTME (km.): 405.634	Building: FAB1
Emission Point: 1F149		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.798	NYTME (km.): 405.625	Building: FAB1
Emission Point: 1F150		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.785	NYTME (km.): 405.617	Building: FAB1
Emission Point: 1F151		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.714	NYTME (km.): 405.565	Building: FAB1
Emission Point: 1F152		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.702	NYTME (km.): 405.557	Building: FAB1
Emission Point: 1F153		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.679	NYTME (km.): 405.54	Building: FAB1
Emission Point: 1F154		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.667	NYTME (km.): 405.531	Building: FAB1
Emission Point: 1F155		

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Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.776	NYTME (km.): 405.758	Building: FAB1
Emission Point: 1F156		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.764	NYTME (km.): 405.749	Building: FAB1
Emission Point: 1F157		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.751	NYTME (km.): 405.74	Building: FAB1
Emission Point: 1F158		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.739	NYTME (km.): 405.731	Building: FAB1
Emission Point: 1F159		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.727	NYTME (km.): 405.723	Building: FAB1
Emission Point: 1F160		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.715	NYTME (km.): 405.714	Building: FAB1
Emission Point: 1F161		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.644	NYTME (km.): 405.663	Building: FAB1
Emission Point: 1F162		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.632	NYTME (km.): 405.654	Building: FAB1
Emission Point: 1F163		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.608	NYTME (km.): 405.637	Building: FAB1
Emission Point: 1F164		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.597	NYTME (km.): 405.629	Building: FAB1
Emission Point: 1F165		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4783.096	NYTME (km.): 405.84	Building: FAB1
Emission Point: 1F166		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4783.084	NYTME (km.): 405.831	Building: FAB1
Emission Point: 1F167		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4783.061	NYTME (km.): 405.814	Building: FAB1
Emission Point: 1F168		

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Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4783.049	NYTME (km.): 405.806	Building: FAB1
Emission Point: 1F169		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.965	NYTME (km.): 405.746	Building: FAB1
Emission Point: 1F170		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.953	NYTME (km.): 405.738	Building: FAB1
Emission Point: 1F171		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.941	NYTME (km.): 405.728	Building: FAB1
Emission Point: 1F172		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.929	NYTME (km.): 405.72	Building: FAB1
Emission Point: 1F173		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.922	NYTME (km.): 405.715	Building: FAB1
Emission Point: 1F174		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.915	NYTME (km.): 405.709	Building: FAB1
Emission Point: 1F175		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4783.026	NYTME (km.): 405.938	Building: FAB1
Emission Point: 1F176		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4783.014	NYTME (km.): 405.929	Building: FAB1
Emission Point: 1F177		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.99	NYTME (km.): 405.912	Building: FAB1
Emission Point: 1F178		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.979	NYTME (km.): 405.903	Building: FAB1
Emission Point: 1F179		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.895	NYTME (km.): 405.844	Building: FAB1
Emission Point: 1F180		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.883	NYTME (km.): 405.836	Building: FAB1
Emission Point: 1F181		

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Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.871	NYTME (km.): 405.825	Building: FAB1
Emission Point: 1F182		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.859	NYTME (km.): 405.817	Building: FAB1
Emission Point: 1F183		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.853	NYTME (km.): 405.813	Building: FAB1
Emission Point: 1F184		
Height (ft.): 154	Diameter (in.): 42	
NYTMN (km.): 4782.845	NYTME (km.): 405.807	Building: FAB1

Item 154.4:

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

Emission Unit: 1-HPMCU		
Emission Point: 1C001		
Height (ft.): 81	Diameter (in.): 20	
NYTMN (km.): 4783.022	NYTME (km.): 405.566	Building: CUB1
Emission Point: 1C002		
Height (ft.): 81	Diameter (in.): 20	
NYTMN (km.): 4783.017	NYTME (km.): 405.562	Building: CUB1
Emission Point: 1C003		
Height (ft.): 81	Diameter (in.): 20	
NYTMN (km.): 4782.978	NYTME (km.): 405.534	Building: CUB1
Emission Point: 1C004		
Height (ft.): 81	Diameter (in.): 20	
NYTMN (km.): 4782.973	NYTME (km.): 405.53	Building: CUB1
Emission Point: 1C005		
Height (ft.): 101	Diameter (in.): 230	
NYTMN (km.): 4782.859	NYTME (km.): 405.482	Building: CUB1
Emission Point: 1C006		
Height (ft.): 101	Diameter (in.): 230	
NYTMN (km.): 4782.866	NYTME (km.): 405.488	Building: CUB1
Emission Point: 1C007		
Height (ft.): 101	Diameter (in.): 230	
NYTMN (km.): 4782.872	NYTME (km.): 405.492	Building: CUB1
Emission Point: 1C008		
Height (ft.): 101	Diameter (in.): 230	
NYTMN (km.): 4782.878	NYTME (km.): 405.496	Building: CUB1

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Emission Point: 1C009			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.885	NYTME (km.): 405.501	Building: CUB1	
Emission Point: 1C010			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.89	NYTME (km.): 405.506	Building: CUB1	
Emission Point: 1C011			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.897	NYTME (km.): 405.51	Building: CUB1	
Emission Point: 1C012			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.921	NYTME (km.): 405.527	Building: CUB1	
Emission Point: 1C013			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.928	NYTME (km.): 405.531	Building: CUB1	
Emission Point: 1C014			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.933	NYTME (km.): 405.536	Building: CUB1	
Emission Point: 1C015			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.94	NYTME (km.): 405.541	Building: CUB1	
Emission Point: 1C016			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.946	NYTME (km.): 405.545	Building: CUB1	
Emission Point: 1C017			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.952	NYTME (km.): 405.549	Building: CUB1	
Emission Point: 1C018			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.96	NYTME (km.): 405.553	Building: CUB1	
Emission Point: 1C019			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.965	NYTME (km.): 405.557	Building: CUB1	
Emission Point: 1C020			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.848	NYTME (km.): 405.497	Building: CUB1	
Emission Point: 1C021			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.855	NYTME (km.): 405.502	Building: CUB1	

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Emission Point: 1C022			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.861	NYTME (km.): 405.507	Building: CUB1	
Emission Point: 1C023			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.866	NYTME (km.): 405.511	Building: CUB1	
Emission Point: 1C024			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.874	NYTME (km.): 405.516	Building: CUB1	
Emission Point: 1C025			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.879	NYTME (km.): 405.52	Building: CUB1	
Emission Point: 1C026			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.885	NYTME (km.): 405.524	Building: CUB1	
Emission Point: 1C027			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.914	NYTME (km.): 405.522	Building: CUB1	
Emission Point: 1C028			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.897	NYTME (km.): 405.534	Building: CUB1	
Emission Point: 1C029			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.903	NYTME (km.): 405.538	Building: CUB1	
Emission Point: 1C030			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.911	NYTME (km.): 405.542	Building: CUB1	
Emission Point: 1C031			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.917	NYTME (km.): 405.546	Building: CUB1	
Emission Point: 1C032			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.922	NYTME (km.): 405.55	Building: CUB1	
Emission Point: 1C033			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.93	NYTME (km.): 405.555	Building: CUB1	
Emission Point: 1C034			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.935	NYTME (km.): 405.56	Building: CUB1	

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Emission Point: 1C035			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.941	NYTME (km.): 405.564	Building: CUB1	
Emission Point: 1C036			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.949	NYTME (km.): 405.568	Building: CUB1	
Emission Point: 1C037			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.955	NYTME (km.): 405.572	Building: CUB1	
Emission Point: 1C038			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.837	NYTME (km.): 405.512	Building: CUB1	
Emission Point: 1C039			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.844	NYTME (km.): 405.517	Building: CUB1	
Emission Point: 1C040			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.85	NYTME (km.): 405.521	Building: CUB1	
Emission Point: 1C041			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.856	NYTME (km.): 405.525	Building: CUB1	
Emission Point: 1C042			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.863	NYTME (km.): 405.531	Building: CUB1	
Emission Point: 1C043			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.868	NYTME (km.): 405.535	Building: CUB1	
Emission Point: 1C044			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.874	NYTME (km.): 405.539	Building: CUB1	
Emission Point: 1C045			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.908	NYTME (km.): 405.518	Building: CUB1	
Emission Point: 1C046			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.887	NYTME (km.): 405.548	Building: CUB1	
Emission Point: 1C047			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.892	NYTME (km.): 405.553	Building: CUB1	

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Emission Point: 1C048			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.9	NYTME (km.): 405.556	Building: CUB1	
Emission Point: 1C049			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.906	NYTME (km.): 405.561	Building: CUB1	
Emission Point: 1C050			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.911	NYTME (km.): 405.565	Building: CUB1	
Emission Point: 1C051			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.919	NYTME (km.): 405.57	Building: CUB1	
Emission Point: 1C052			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.924	NYTME (km.): 405.574	Building: CUB1	
Emission Point: 1C053			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.93	NYTME (km.): 405.579	Building: CUB1	
Emission Point: 1C054			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.938	NYTME (km.): 405.582	Building: CUB1	
Emission Point: 1C055			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.943	NYTME (km.): 405.586	Building: CUB1	
Emission Point: 1C056			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.971	NYTME (km.): 405.561	Building: CUB1	
Emission Point: 1C057			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.978	NYTME (km.): 405.567	Building: CUB1	
Emission Point: 1C058			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.983	NYTME (km.): 405.571	Building: CUB1	
Emission Point: 1C059			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.989	NYTME (km.): 405.575	Building: CUB1	
Emission Point: 1C060			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.014	NYTME (km.): 405.594	Building: CUB1	

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Emission Point: 1C061			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.02	NYTME (km.): 405.598	Building: CUB1	
Emission Point: 1C062			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.026	NYTME (km.): 405.602	Building: CUB1	
Emission Point: 1C063			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.033	NYTME (km.): 405.608	Building: CUB1	
Emission Point: 1C064			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.039	NYTME (km.): 405.612	Building: CUB1	
Emission Point: 1C065			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.044	NYTME (km.): 405.616	Building: CUB1	
Emission Point: 1C066			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.051	NYTME (km.): 405.621	Building: CUB1	
Emission Point: 1C067			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.057	NYTME (km.): 405.626	Building: CUB1	
Emission Point: 1C068			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.062	NYTME (km.): 405.63	Building: CUB1	
Emission Point: 1C069			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.069	NYTME (km.): 405.635	Building: CUB1	
Emission Point: 1C070			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.075	NYTME (km.): 405.639	Building: CUB1	
Emission Point: 1C071			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.081	NYTME (km.): 405.643	Building: CUB1	
Emission Point: 1C072			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.96	NYTME (km.): 405.576	Building: CUB1	
Emission Point: 1C073			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.967	NYTME (km.): 405.581	Building: CUB1	

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Emission Point: 1C074			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.973	NYTME (km.): 405.585	Building: CUB1	
Emission Point: 1C075			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.979	NYTME (km.): 405.59	Building: CUB1	
Emission Point: 1C076			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.985	NYTME (km.): 405.595	Building: CUB1	
Emission Point: 1C077			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.991	NYTME (km.): 405.599	Building: CUB1	
Emission Point: 1C078			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.995	NYTME (km.): 405.581	Building: CUB1	
Emission Point: 1C079			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.004	NYTME (km.): 405.609	Building: CUB1	
Emission Point: 1C080			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.009	NYTME (km.): 405.613	Building: CUB1	
Emission Point: 1C081			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.015	NYTME (km.): 405.617	Building: CUB1	
Emission Point: 1C082			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.022	NYTME (km.): 405.622	Building: CUB1	
Emission Point: 1C083			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.028	NYTME (km.): 405.627	Building: CUB1	
Emission Point: 1C084			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.033	NYTME (km.): 405.631	Building: CUB1	
Emission Point: 1C085			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.04	NYTME (km.): 405.636	Building: CUB1	
Emission Point: 1C086			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.046	NYTME (km.): 405.64	Building: CUB1	

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Emission Point: 1C087			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.051	NYTME (km.): 405.644	Building: CUB1	
Emission Point: 1C088			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.059	NYTME (km.): 405.65	Building: CUB1	
Emission Point: 1C089			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.064	NYTME (km.): 405.654	Building: CUB1	
Emission Point: 1C090			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.07	NYTME (km.): 405.658	Building: CUB1	
Emission Point: 1C091			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.949	NYTME (km.): 405.591	Building: CUB1	
Emission Point: 1C092			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.956	NYTME (km.): 405.598	Building: CUB1	
Emission Point: 1C093			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.962	NYTME (km.): 405.6	Building: CUB1	
Emission Point: 1C094			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.968	NYTME (km.): 405.604	Building: CUB1	
Emission Point: 1C095			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.974	NYTME (km.): 405.61	Building: CUB1	
Emission Point: 1C096			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.98	NYTME (km.): 405.614	Building: CUB1	
Emission Point: 1C097			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.001	NYTME (km.): 405.585	Building: CUB1	
Emission Point: 1C098			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.993	NYTME (km.): 405.623	Building: CUB1	
Emission Point: 1C099			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.998	NYTME (km.): 405.628	Building: CUB1	

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Emission Point: 1C100			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.004	NYTME (km.): 405.632	Building: CUB1	
Emission Point: 1C101			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.011	NYTME (km.): 405.637	Building: CUB1	
Emission Point: 1C102			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.017	NYTME (km.): 405.641	Building: CUB1	
Emission Point: 1C103			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.022	NYTME (km.): 405.645	Building: CUB1	
Emission Point: 1C104			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.029	NYTME (km.): 405.651	Building: CUB1	
Emission Point: 1C105			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.035	NYTME (km.): 405.655	Building: CUB1	
Emission Point: 1C106			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.04	NYTME (km.): 405.659	Building: CUB1	
Emission Point: 1C107			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.047	NYTME (km.): 405.664	Building: CUB1	
Emission Point: 1C108			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.053	NYTME (km.): 405.668	Building: CUB1	
Emission Point: 1C109			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4783.059	NYTME (km.): 405.673	Building: CUB1	
Emission Point: 1D001			
Height (ft.): 30	Diameter (in.): 3		
NYTMN (km.): 4782.573	NYTME (km.): 405.903		
Emission Point: 1D002			
Height (ft.): 30	Diameter (in.): 3		
NYTMN (km.): 4782.573	NYTME (km.): 405.903		
Emission Point: 1D003			
Height (ft.): 30	Diameter (in.): 3		
NYTMN (km.): 4782.573	NYTME (km.): 405.903		

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Emission Point:	1D004		
Height (ft.):	30	Diameter (in.):	3
NYTMN (km.):	4782.573	NYTME (km.):	405.903
Emission Point:	1G001		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4783.256	NYTME (km.):	406.126
Emission Point:	1G002		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4783.246	NYTME (km.):	406.118
Emission Point:	1G003		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4783.246	NYTME (km.):	406.118
Emission Point:	1G004		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4783.181	NYTME (km.):	406.069
Emission Point:	1G005		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4783.171	NYTME (km.):	406.062
Emission Point:	1G006		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4783.161	NYTME (km.):	406.056
Emission Point:	1H001		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.672	NYTME (km.):	405.784 Building: HPM1-S
Emission Point:	1H002		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.668	NYTME (km.):	405.781 Building: HPM1-S
Emission Point:	1H003		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.664	NYTME (km.):	405.778 Building: HPM1-S
Emission Point:	1H004		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.66	NYTME (km.):	405.775 Building: HPM1-S
Emission Point:	1H005		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.866	NYTME (km.):	405.923 Building: HPM1-N
Emission Point:	1H006		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.862	NYTME (km.):	405.92 Building: HPM1-N

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Emission Point: 1H007			
Height (ft.): 101	Diameter (in.): 42		
NYTMN (km.): 4782.857	NYTME (km.): 405.917	Building: HPM1-N	
Emission Point: 1H008			
Height (ft.): 101	Diameter (in.): 42		
NYTMN (km.): 4782.854	NYTME (km.): 405.914	Building: HPM1-N	
Emission Point: 1H009			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.618	NYTME (km.): 405.741	Building: HPM1-S	
Emission Point: 1H010			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.614	NYTME (km.): 405.738	Building: HPM1-S	
Emission Point: 1H011			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.61	NYTME (km.): 405.736	Building: HPM1-S	
Emission Point: 1H012			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.606	NYTME (km.): 405.733	Building: HPM1-S	
Emission Point: 1H013			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.923	NYTME (km.): 405.96	Building: HPM1-N	
Emission Point: 1H014			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.919	NYTME (km.): 405.958	Building: HPM1-N	
Emission Point: 1H015			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.915	NYTME (km.): 405.955	Building: HPM1-N	
Emission Point: 1H016			
Height (ft.): 101	Diameter (in.): 30		
NYTMN (km.): 4782.911	NYTME (km.): 405.952	Building: HPM1-N	
Emission Point: 1H017			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.696	NYTME (km.): 405.839	Building: HPM1-S	
Emission Point: 1H018			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.708	NYTME (km.): 405.809	Building: HPM1-S	
Emission Point: 1H019			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.693	NYTME (km.): 405.838	Building: HPM1-S	

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Emission Point: 1H020			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.701	NYTME (km.): 405.804	Building: HPM1-S	
Emission Point: 1H021			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.68	NYTME (km.): 405.827	Building: HPM1-S	
Emission Point: 1H022			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.694	NYTME (km.): 405.799	Building: HPM1-S	
Emission Point: 1H023			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.678	NYTME (km.): 405.827	Building: HPM1-S	
Emission Point: 1H024			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.686	NYTME (km.): 405.794	Building: HPM1-S	
Emission Point: 1H025			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.811	NYTME (km.): 405.922	Building: HPM1-N	
Emission Point: 1H026			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.84	NYTME (km.): 405.904	Building: HPM1-N	
Emission Point: 1H027			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.81	NYTME (km.): 405.921	Building: HPM1-N	
Emission Point: 1H028			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.833	NYTME (km.): 405.899	Building: HPM1-N	
Emission Point: 1H029			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.795	NYTME (km.): 405.911	Building: HPM1-N	
Emission Point: 1H030			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.825	NYTME (km.): 405.894	Building: HPM1-N	
Emission Point: 1H031			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.794	NYTME (km.): 405.91	Building: HPM1-N	
Emission Point: 1H032			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.818	NYTME (km.): 405.888	Building: HPM1-N	

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Item 154.5:

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

Emission Unit: 1-WWBIO

Emission Point: 1B001

Height (ft.): 71

Diameter (in.): 52

NYTMN (km.): 4783.683

NYTME (km.): 405.408

Building: BIO1

Emission Point: 1B002

Height (ft.): 71

Diameter (in.): 52

NYTMN (km.): 4783.682

NYTME (km.): 405.398

Building: BIO1

Emission Point: 1W001

Height (ft.): 144

Diameter (in.): 26

NYTMN (km.): 4783.07

NYTME (km.): 405.374

Building: WWT1

Emission Point: 1W002

Height (ft.): 144

Diameter (in.): 26

NYTMN (km.): 4783.067

NYTME (km.): 405.378

Building: WWT1

Emission Point: 1W003

Height (ft.): 144

Diameter (in.): 26

NYTMN (km.): 4783.06

NYTME (km.): 405.387

Building: WWT1

Emission Point: 1W004

Height (ft.): 144

Diameter (in.): 26

NYTMN (km.): 4783.057

NYTME (km.): 405.391

Building: WWT1

Emission Point: 1W005

Height (ft.): 144

Diameter (in.): 10

NYTMN (km.): 4783.083

NYTME (km.): 405.356

Building: WWT1

Emission Point: 1W006

Height (ft.): 144

Diameter (in.): 10

NYTMN (km.): 4783.08

NYTME (km.): 405.361

Building: WWT1

Emission Point: 1W007

Height (ft.): 144

Diameter (in.): 10

NYTMN (km.): 4783.076

NYTME (km.): 405.366

Building: WWT1

Emission Point: 1W008

Height (ft.): 144

Diameter (in.): 6

NYTMN (km.): 4783.096

NYTME (km.): 405.339

Building: WWT1

Emission Point: 1W009

Height (ft.): 144

Diameter (in.): 6

NYTMN (km.): 4783.092

NYTME (km.): 405.344

Building: WWT1

Emission Point: 1W010

Height (ft.): 144

Diameter (in.): 6

NYTMN (km.): 4783.089

NYTME (km.): 405.348

Building: WWT1

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Emission Point: 1W011
Height (ft.): 46 Diameter (in.): 906
NYTMN (km.): 4782.946 NYTME (km.): 405.438

Emission Point: 1W012
Height (ft.): 46 Diameter (in.): 906
NYTMN (km.): 4783.125 NYTME (km.): 406.225

Item 154.6:

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

Emission Unit: 2-ADMPR

Emission Point: 2A001
Height (ft.): 114 Diameter (in.): 20
NYTMN (km.): 4782.277 NYTME (km.): 405.958 Building: PROBE2

Emission Point: 2A002
Height (ft.): 114 Diameter (in.): 20
NYTMN (km.): 4782.273 NYTME (km.): 405.955 Building: PROBE2

Emission Point: 2A003
Height (ft.): 114 Diameter (in.): 12
NYTMN (km.): 4782.268 NYTME (km.): 405.952 Building: PROBE2

Emission Point: 2A004
Height (ft.): 114 Diameter (in.): 12
NYTMN (km.): 4782.266 NYTME (km.): 405.95 Building: PROBE2

Item 154.7:

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

Emission Unit: 2-CMBOP

Emission Point: 2U001
Height (ft.): 71 Diameter (in.): 24
NYTMN (km.): 4782.375 NYTME (km.): 406.195 Building: CUB2

Emission Point: 2U002
Height (ft.): 71 Diameter (in.): 24
NYTMN (km.): 4782.366 NYTME (km.): 406.188 Building: CUB2

Emission Point: 2U003
Height (ft.): 71 Diameter (in.): 24
NYTMN (km.): 4782.359 NYTME (km.): 406.183 Building: CUB2

Emission Point: 2U004
Height (ft.): 17 Diameter (in.): 38
NYTMN (km.): 4783.114 NYTME (km.): 406.812

Emission Point: 2U005

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Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.11	NYTME (km.): 406.819	
Emission Point: 2U006		
Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.081	NYTME (km.): 406.858	
Emission Point: 2U007		
Height (ft.): 17	Diameter (in.): 38	
NYTMN (km.): 4783.078	NYTME (km.): 406.862	
Emission Point: 2U008		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.374	NYTME (km.): 406.312	Building: CUB2
Emission Point: 2U009		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.373	NYTME (km.): 406.311	Building: CUB2
Emission Point: 2U010		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.371	NYTME (km.): 406.31	Building: CUB2
Emission Point: 2U011		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.365	NYTME (km.): 406.306	Building: CUB2
Emission Point: 2U012		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.364	NYTME (km.): 406.305	Building: CUB2
Emission Point: 2U013		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.362	NYTME (km.): 406.304	Building: CUB2
Emission Point: 2U014		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.347	NYTME (km.): 406.293	Building: CUB2
Emission Point: 2U015		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.346	NYTME (km.): 406.292	Building: CUB2
Emission Point: 2U016		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.344	NYTME (km.): 406.291	Building: CUB2
Emission Point: 2U017		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.333	NYTME (km.): 406.282	Building: CUB2
Emission Point: 2U018		

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Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.331	NYTME (km.): 406.281	Building: CUB2
Emission Point: 2U019		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.33	NYTME (km.): 406.28	Building: CUB2
Emission Point: 2U020		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.32	NYTME (km.): 406.273	Building: CUB2
Emission Point: 2U021		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.319	NYTME (km.): 406.272	Building: CUB2
Emission Point: 2U022		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.317	NYTME (km.): 406.271	Building: CUB2
Emission Point: 2U023		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.304	NYTME (km.): 406.262	Building: CUB2
Emission Point: 2U024		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.303	NYTME (km.): 406.261	Building: CUB2
Emission Point: 2U025		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.301	NYTME (km.): 406.26	Building: CUB2
Emission Point: 2U026		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.287	NYTME (km.): 406.25	Building: CUB2
Emission Point: 2U027		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.285	NYTME (km.): 406.249	Building: CUB2
Emission Point: 2U028		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.284	NYTME (km.): 406.248	Building: CUB2
Emission Point: 2U029		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.274	NYTME (km.): 406.241	Building: CUB2
Emission Point: 2U030		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.273	NYTME (km.): 406.24	Building: CUB2
Emission Point: 2U031		

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Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.272	NYTME (km.): 406.239	Building: CUB2
Emission Point: 2U032		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.538	NYTME (km.): 406.43	Building: CUB2
Emission Point: 2U033		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.537	NYTME (km.): 406.429	Building: CUB2
Emission Point: 2U034		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.526	NYTME (km.): 406.421	Building: CUB2
Emission Point: 2U035		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.525	NYTME (km.): 406.42	Building: CUB2
Emission Point: 2U036		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.519	NYTME (km.): 406.416	Building: CUB2
Emission Point: 2U037		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.518	NYTME (km.): 406.415	Building: CUB2
Emission Point: 2U038		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.508	NYTME (km.): 406.409	Building: CUB2
Emission Point: 2U039		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.507	NYTME (km.): 406.408	Building: CUB2
Emission Point: 2U040		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.505	NYTME (km.): 406.407	Building: CUB2
Emission Point: 2U041		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.494	NYTME (km.): 406.398	Building: CUB2
Emission Point: 2U042		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.492	NYTME (km.): 406.397	Building: CUB2
Emission Point: 2U043		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.491	NYTME (km.): 406.396	Building: CUB2
Emission Point: 2U044		

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Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.481	NYTME (km.): 406.389	Building: CUB2
Emission Point: 2U045		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.48	NYTME (km.): 406.388	Building: CUB2
Emission Point: 2U046		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.479	NYTME (km.): 406.387	Building: CUB2
Emission Point: 2U047		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.467	NYTME (km.): 406.379	Building: CUB2
Emission Point: 2U048		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.466	NYTME (km.): 406.378	Building: CUB2
Emission Point: 2U049		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.464	NYTME (km.): 406.377	Building: CUB2
Emission Point: 2U050		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.454	NYTME (km.): 406.37	Building: CUB2
Emission Point: 2U051		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.453	NYTME (km.): 406.369	Building: CUB2
Emission Point: 2U052		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.451	NYTME (km.): 406.368	Building: CUB2
Emission Point: 2U053		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.44	NYTME (km.): 406.36	Building: CUB2
Emission Point: 2U054		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.438	NYTME (km.): 406.359	Building: CUB2
Emission Point: 2U055		
Height (ft.): 69	Diameter (in.): 35	
NYTMN (km.): 4782.437	NYTME (km.): 406.358	Building: CUB2
Emission Point: 2U056		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.615	NYTME (km.): 405.956	
Emission Point: 2U057		

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Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.618	NYTME (km.): 405.951	
Emission Point: 2U058		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.708	NYTME (km.): 406.024	
Emission Point: 2U059		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4782.712	NYTME (km.): 406.019	
Emission Point: 2U060		
Height (ft.): 28	Diameter (in.): 20	
NYTMN (km.): 4783.69	NYTME (km.): 405.674	
Emission Point: 2U061		
Height (ft.): 11	Diameter (in.): 8	
NYTMN (km.): 4782.965	NYTME (km.): 406.731	
Emission Point: 2U062		
Height (ft.): 11	Diameter (in.): 8	
NYTMN (km.): 4783.047	NYTME (km.): 406.789	
Emission Point: 2U063		
Height (ft.): 124	Diameter (in.): 24	
NYTMN (km.): 4782.373	NYTME (km.): 405.865	Building: PROBE2
Emission Point: 2U064		
Height (ft.): 124	Diameter (in.): 24	
NYTMN (km.): 4782.367	NYTME (km.): 405.873	Building: PROBE2
Emission Point: 2U065		
Height (ft.): 124	Diameter (in.): 24	
NYTMN (km.): 4782.36	NYTME (km.): 405.882	Building: PROBE2

Item 154.8:

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

Emission Unit: 2-FABOP		
Emission Point: 2F001		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.474	NYTME (km.): 406.165	Building: FAB2
Emission Point: 2F002		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.459	NYTME (km.): 406.15	Building: FAB2
Emission Point: 2F003		
Height (ft.): 154	Diameter (in.): 50	
NYTMN (km.): 4782.449	NYTME (km.): 406.14	Building: FAB2

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Emission Point: 2F004			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.437	NYTME (km.): 406.139	Building: FAB2	
Emission Point: 2F005			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.425	NYTME (km.): 406.13	Building: FAB2	
Emission Point: 2F006			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.342	NYTME (km.): 406.07	Building: FAB2	
Emission Point: 2F007			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.325	NYTME (km.): 406.058	Building: FAB2	
Emission Point: 2F008			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.318	NYTME (km.): 406.053	Building: FAB2	
Emission Point: 2F009			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.306	NYTME (km.): 406.045	Building: FAB2	
Emission Point: 2F010			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.288	NYTME (km.): 406.032	Building: FAB2	
Emission Point: 2F011			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.552	NYTME (km.): 406.057	Building: FAB2	
Emission Point: 2F012			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.537	NYTME (km.): 406.046	Building: FAB2	
Emission Point: 2F013			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.526	NYTME (km.): 406.039	Building: FAB2	
Emission Point: 2F014			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.515	NYTME (km.): 406.03	Building: FAB2	
Emission Point: 2F015			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.503	NYTME (km.): 406.022	Building: FAB2	
Emission Point: 2F016			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.42	NYTME (km.): 405.962	Building: FAB2	

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Emission Point: 2F017			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.42	NYTME (km.): 405.962	Building: FAB2	
Emission Point: 2F018			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.396	NYTME (km.): 405.945	Building: FAB2	
Emission Point: 2F019			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.384	NYTME (km.): 405.937	Building: FAB2	
Emission Point: 2F020			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.366	NYTME (km.): 405.923	Building: FAB2	
Emission Point: 2F021			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.742	NYTME (km.): 406.358	Building: FAB2	
Emission Point: 2F022			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.724	NYTME (km.): 406.345	Building: FAB2	
Emission Point: 2F023			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.713	NYTME (km.): 406.336	Building: FAB2	
Emission Point: 2F024			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.706	NYTME (km.): 406.332	Building: FAB2	
Emission Point: 2F025			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.688	NYTME (km.): 406.32	Building: FAB2	
Emission Point: 2F026			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.606	NYTME (km.): 406.259	Building: FAB2	
Emission Point: 2F027			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.6	NYTME (km.): 406.255	Building: FAB2	
Emission Point: 2F028			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.582	NYTME (km.): 406.242	Building: FAB2	
Emission Point: 2F029			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.569	NYTME (km.): 406.233	Building: FAB2	

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Emission Point: 2F030			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.569	NYTME (km.): 406.233	Building: FAB2	
Emission Point: 2F031			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.82	NYTME (km.): 406.249	Building: FAB2	
Emission Point: 2F032			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.802	NYTME (km.): 406.236	Building: FAB2	
Emission Point: 2F033			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.791	NYTME (km.): 406.227	Building: FAB2	
Emission Point: 2F034			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.784	NYTME (km.): 406.224	Building: FAB2	
Emission Point: 2F035			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.767	NYTME (km.): 406.211	Building: FAB2	
Emission Point: 2F036			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.683	NYTME (km.): 406.152	Building: FAB2	
Emission Point: 2F037			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.677	NYTME (km.): 406.147	Building: FAB2	
Emission Point: 2F038			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.66	NYTME (km.): 406.134	Building: FAB2	
Emission Point: 2F039			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.647	NYTME (km.): 406.125	Building: FAB2	
Emission Point: 2F040			
Height (ft.): 154	Diameter (in.): 50		
NYTMN (km.): 4782.629	NYTME (km.): 406.112	Building: FAB2	
Emission Point: 2F041			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.333	NYTME (km.): 406.068	Building: FAB2	
Emission Point: 2F042			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.331	NYTME (km.): 406.067	Building: FAB2	

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Emission Point: 2F043			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.297	NYTME (km.): 406.042	Building: FAB2	
Emission Point: 2F044			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.296	NYTME (km.): 406.041	Building: FAB2	
Emission Point: 2F045			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.414	NYTME (km.): 405.954	Building: FAB2	
Emission Point: 2F046			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.413	NYTME (km.): 405.953	Building: FAB2	
Emission Point: 2F047			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.379	NYTME (km.): 405.928	Building: FAB2	
Emission Point: 2F048			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.377	NYTME (km.): 405.927	Building: FAB2	
Emission Point: 2F049			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.59	NYTME (km.): 406.252	Building: FAB2	
Emission Point: 2F050			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.589	NYTME (km.): 406.252	Building: FAB2	
Emission Point: 2F051			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.56	NYTME (km.): 406.231	Building: FAB2	
Emission Point: 2F052			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.558	NYTME (km.): 406.23	Building: FAB2	
Emission Point: 2F053			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.672	NYTME (km.): 406.139	Building: FAB2	
Emission Point: 2F054			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.67	NYTME (km.): 406.137	Building: FAB2	
Emission Point: 2F055			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.642	NYTME (km.): 406.116	Building: FAB2	

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Emission Point: 2F056			
Height (ft.): 170	Diameter (in.): 3		
NYTMN (km.): 4782.64	NYTME (km.): 406.116	Building: FAB2	
Emission Point: 2F057			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.467	NYTME (km.): 406.163	Building: FAB2	
Emission Point: 2F058			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.461	NYTME (km.): 406.159	Building: FAB2	
Emission Point: 2F059			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.441	NYTME (km.): 406.145	Building: FAB2	
Emission Point: 2F060			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.429	NYTME (km.): 406.137	Building: FAB2	
Emission Point: 2F061			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.548	NYTME (km.): 406.05	Building: FAB2	
Emission Point: 2F062			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.542	NYTME (km.): 406.045	Building: FAB2	
Emission Point: 2F063			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.523	NYTME (km.): 406.032	Building: FAB2	
Emission Point: 2F064			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.511	NYTME (km.): 406.023	Building: FAB2	
Emission Point: 2F065			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.734	NYTME (km.): 406.356	Building: FAB2	
Emission Point: 2F066			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.729	NYTME (km.): 406.352	Building: FAB2	
Emission Point: 2F067			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.701	NYTME (km.): 406.332	Building: FAB2	
Emission Point: 2F068			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.692	NYTME (km.): 406.326	Building: FAB2	

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Emission Point: 2F069			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.815	NYTME (km.): 406.242	Building: FAB2	
Emission Point: 2F070			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.81	NYTME (km.): 406.238	Building: FAB2	
Emission Point: 2F071			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.783	NYTME (km.): 406.219	Building: FAB2	
Emission Point: 2F072			
Height (ft.): 154	Diameter (in.): 36		
NYTMN (km.): 4782.774	NYTME (km.): 406.212	Building: FAB2	
Emission Point: 2F073			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.399	NYTME (km.): 406.135	Building: FAB2	
Emission Point: 2F074			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.405	NYTME (km.): 406.116	Building: FAB2	
Emission Point: 2F075			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.393	NYTME (km.): 406.13	Building: FAB2	
Emission Point: 2F076			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.399	NYTME (km.): 406.111	Building: FAB2	
Emission Point: 2F077			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.386	NYTME (km.): 406.125	Building: FAB2	
Emission Point: 2F078			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.392	NYTME (km.): 406.107	Building: FAB2	
Emission Point: 2F079			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.38	NYTME (km.): 406.121	Building: FAB2	
Emission Point: 2F080			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.386	NYTME (km.): 406.102	Building: FAB2	
Emission Point: 2F081			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.373	NYTME (km.): 406.116	Building: FAB2	

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Emission Point: 2F082			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.379	NYTME (km.): 406.097	Building: FAB2	
Emission Point: 2F083			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.367	NYTME (km.): 406.112	Building: FAB2	
Emission Point: 2F084			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.372	NYTME (km.): 406.093	Building: FAB2	
Emission Point: 2F085			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.36	NYTME (km.): 406.107	Building: FAB2	
Emission Point: 2F086			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.366	NYTME (km.): 406.088	Building: FAB2	
Emission Point: 2F087			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.354	NYTME (km.): 406.102	Building: FAB2	
Emission Point: 2F088			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.36	NYTME (km.): 406.084	Building: FAB2	
Emission Point: 2F089			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.348	NYTME (km.): 406.097	Building: FAB2	
Emission Point: 2F090			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.353	NYTME (km.): 406.079	Building: FAB2	
Emission Point: 2F091			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.499	NYTME (km.): 405.996	Building: FAB2	
Emission Point: 2F092			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.483	NYTME (km.): 406.007	Building: FAB2	
Emission Point: 2F093			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.493	NYTME (km.): 405.991	Building: FAB2	
Emission Point: 2F094			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.477	NYTME (km.): 406.002	Building: FAB2	

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Emission Point: 2F095			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.486	NYTME (km.): 405.986	Building: FAB2	
Emission Point: 2F096			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.47	NYTME (km.): 405.997	Building: FAB2	
Emission Point: 2F097			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.48	NYTME (km.): 405.981	Building: FAB2	
Emission Point: 2F098			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.464	NYTME (km.): 405.993	Building: FAB2	
Emission Point: 2F099			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.474	NYTME (km.): 405.977	Building: FAB2	
Emission Point: 2F100			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.458	NYTME (km.): 405.988	Building: FAB2	
Emission Point: 2F101			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.467	NYTME (km.): 405.973	Building: FAB2	
Emission Point: 2F102			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.451	NYTME (km.): 405.984	Building: FAB2	
Emission Point: 2F103			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.46	NYTME (km.): 405.968	Building: FAB2	
Emission Point: 2F104			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.445	NYTME (km.): 405.979	Building: FAB2	
Emission Point: 2F105			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.454	NYTME (km.): 405.963	Building: FAB2	
Emission Point: 2F106			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.438	NYTME (km.): 405.975	Building: FAB2	
Emission Point: 2F107			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.448	NYTME (km.): 405.958	Building: FAB2	

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Emission Point:	2F108			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.432	NYTME (km.):	405.97	Building: FAB2
Emission Point:	2F109			
Height (ft.):	154	Diameter (in.):	40	
NYTMN (km.):	4782.664	NYTME (km.):	406.324	Building: FAB2
Emission Point:	2F110			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.672	NYTME (km.):	406.312	Building: FAB2
Emission Point:	2F111			
Height (ft.):	154	Diameter (in.):	40	
NYTMN (km.):	4782.658	NYTME (km.):	406.32	Building: FAB2
Emission Point:	2F112			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.667	NYTME (km.):	406.308	Building: FAB2
Emission Point:	2F113			
Height (ft.):	154	Diameter (in.):	40	
NYTMN (km.):	4782.652	NYTME (km.):	406.315	Building: FAB2
Emission Point:	2F114			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.66	NYTME (km.):	406.303	Building: FAB2
Emission Point:	2F115			
Height (ft.):	154	Diameter (in.):	40	
NYTMN (km.):	4782.646	NYTME (km.):	406.311	Building: FAB2
Emission Point:	2F116			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.654	NYTME (km.):	406.298	Building: FAB2
Emission Point:	2F117			
Height (ft.):	154	Diameter (in.):	40	
NYTMN (km.):	4782.639	NYTME (km.):	406.307	Building: FAB2
Emission Point:	2F118			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.647	NYTME (km.):	406.294	Building: FAB2
Emission Point:	2F119			
Height (ft.):	154	Diameter (in.):	40	
NYTMN (km.):	4782.633	NYTME (km.):	406.302	Building: FAB2
Emission Point:	2F120			
Height (ft.):	154	Diameter (in.):	10	
NYTMN (km.):	4782.641	NYTME (km.):	406.289	Building: FAB2

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Emission Point: 2F121			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.626	NYTME (km.): 406.297	Building: FAB2	
Emission Point: 2F122			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.634	NYTME (km.): 406.285	Building: FAB2	
Emission Point: 2F123			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.62	NYTME (km.): 406.292	Building: FAB2	
Emission Point: 2F124			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.628	NYTME (km.): 406.28	Building: FAB2	
Emission Point: 2F125			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.614	NYTME (km.): 406.288	Building: FAB2	
Emission Point: 2F126			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.621	NYTME (km.): 406.275	Building: FAB2	
Emission Point: 2F127			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.764	NYTME (km.): 406.187	Building: FAB2	
Emission Point: 2F128			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.755	NYTME (km.): 406.198	Building: FAB2	
Emission Point: 2F129			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.757	NYTME (km.): 406.182	Building: FAB2	
Emission Point: 2F130			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.748	NYTME (km.): 406.194	Building: FAB2	
Emission Point: 2F131			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.751	NYTME (km.): 406.178	Building: FAB2	
Emission Point: 2F132			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.742	NYTME (km.): 406.189	Building: FAB2	
Emission Point: 2F133			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.744	NYTME (km.): 406.173	Building: FAB2	

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Emission Point: 2F134			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.735	NYTME (km.): 406.185	Building: FAB2	
Emission Point: 2F135			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.738	NYTME (km.): 406.169	Building: FAB2	
Emission Point: 2F136			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.729	NYTME (km.): 406.18	Building: FAB2	
Emission Point: 2F137			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.732	NYTME (km.): 406.164	Building: FAB2	
Emission Point: 2F138			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.723	NYTME (km.): 406.175	Building: FAB2	
Emission Point: 2F139			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.725	NYTME (km.): 406.16	Building: FAB2	
Emission Point: 2F140			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.716	NYTME (km.): 406.171	Building: FAB2	
Emission Point: 2F141			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.719	NYTME (km.): 406.155	Building: FAB2	
Emission Point: 2F142			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.71	NYTME (km.): 406.166	Building: FAB2	
Emission Point: 2F143			
Height (ft.): 154	Diameter (in.): 40		
NYTMN (km.): 4782.712	NYTME (km.): 406.15	Building: FAB2	
Emission Point: 2F144			
Height (ft.): 154	Diameter (in.): 10		
NYTMN (km.): 4782.703	NYTME (km.): 406.161	Building: FAB2	
Emission Point: 2F145			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.484	NYTME (km.): 406.164	Building: FAB2	
Emission Point: 2F146			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.472	NYTME (km.): 406.156	Building: FAB2	

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Emission Point: 2F147			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.459	NYTME (km.): 406.147	Building: FAB2	
Emission Point: 2F148			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.447	NYTME (km.): 406.138	Building: FAB2	
Emission Point: 2F149			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.435	NYTME (km.): 406.129	Building: FAB2	
Emission Point: 2F150			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.423	NYTME (km.): 406.121	Building: FAB2	
Emission Point: 2F151			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.352	NYTME (km.): 406.07	Building: FAB2	
Emission Point: 2F152			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.34	NYTME (km.): 406.061	Building: FAB2	
Emission Point: 2F153			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.317	NYTME (km.): 406.044	Building: FAB2	
Emission Point: 2F154			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.305	NYTME (km.): 406.035	Building: FAB2	
Emission Point: 2F155			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.554	NYTME (km.): 406.066	Building: FAB2	
Emission Point: 2F156			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.542	NYTME (km.): 406.058	Building: FAB2	
Emission Point: 2F157			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.529	NYTME (km.): 406.048	Building: FAB2	
Emission Point: 2F158			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.518	NYTME (km.): 406.04	Building: FAB2	
Emission Point: 2F159			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.506	NYTME (km.): 406.031	Building: FAB2	

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Emission Point: 2F160			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.493	NYTME (km.): 406.023	Building: FAB2	
Emission Point: 2F161			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.422	NYTME (km.): 405.972	Building: FAB2	
Emission Point: 2F162			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.41	NYTME (km.): 405.963	Building: FAB2	
Emission Point: 2F163			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.386	NYTME (km.): 405.946	Building: FAB2	
Emission Point: 2F164			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.375	NYTME (km.): 405.938	Building: FAB2	
Emission Point: 2F165			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.733	NYTME (km.): 406.344	Building: FAB2	
Emission Point: 2F166			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.722	NYTME (km.): 406.335	Building: FAB2	
Emission Point: 2F167			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.699	NYTME (km.): 406.318	Building: FAB2	
Emission Point: 2F168			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.686	NYTME (km.): 406.31	Building: FAB2	
Emission Point: 2F169			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.603	NYTME (km.): 406.25	Building: FAB2	
Emission Point: 2F170			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.591	NYTME (km.): 406.242	Building: FAB2	
Emission Point: 2F171			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.578	NYTME (km.): 406.232	Building: FAB2	
Emission Point: 2F172			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.567	NYTME (km.): 406.224	Building: FAB2	

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Emission Point: 2F173			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.561	NYTME (km.): 406.219	Building: FAB2	
Emission Point: 2F174			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.553	NYTME (km.): 406.214	Building: FAB2	
Emission Point: 2F175			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.804	NYTME (km.): 406.246	Building: FAB2	
Emission Point: 2F176			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.792	NYTME (km.): 406.238	Building: FAB2	
Emission Point: 2F177			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.769	NYTME (km.): 406.221	Building: FAB2	
Emission Point: 2F178			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.756	NYTME (km.): 406.212	Building: FAB2	
Emission Point: 2F179			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.673	NYTME (km.): 406.152	Building: FAB2	
Emission Point: 2F180			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.661	NYTME (km.): 406.144	Building: FAB2	
Emission Point: 2F181			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.649	NYTME (km.): 406.134	Building: FAB2	
Emission Point: 2F182			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.637	NYTME (km.): 406.126	Building: FAB2	
Emission Point: 2F183			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.63	NYTME (km.): 406.121	Building: FAB2	
Emission Point: 2F184			
Height (ft.): 154	Diameter (in.): 42		
NYTMN (km.): 4782.623	NYTME (km.): 406.116	Building: FAB2	

Item 154.9:

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

Emission Unit: 2-HPMCU

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Emission Point: 2C001			
Height (ft.): 81	Diameter (in.): 20		
NYTMN (km.): 4782.449	NYTME (km.): 406.36	Building: CUB2	
Emission Point: 2C002			
Height (ft.): 81	Diameter (in.): 20		
NYTMN (km.): 4782.444	NYTME (km.): 406.356	Building: CUB2	
Emission Point: 2C003			
Height (ft.): 81	Diameter (in.): 20		
NYTMN (km.): 4782.405	NYTME (km.): 406.329	Building: CUB2	
Emission Point: 2C004			
Height (ft.): 81	Diameter (in.): 20		
NYTMN (km.): 4782.399	NYTME (km.): 406.325	Building: CUB2	
Emission Point: 2C005			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.319	NYTME (km.): 406.233	Building: CUB2	
Emission Point: 2C006			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.326	NYTME (km.): 406.238	Building: CUB2	
Emission Point: 2C007			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.332	NYTME (km.): 406.243	Building: CUB2	
Emission Point: 2C008			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.337	NYTME (km.): 406.247	Building: CUB2	
Emission Point: 2C009			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.345	NYTME (km.): 406.252	Building: CUB2	
Emission Point: 2C010			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.35	NYTME (km.): 406.256	Building: CUB2	
Emission Point: 2C011			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.356	NYTME (km.): 406.26	Building: CUB2	
Emission Point: 2C012			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.381	NYTME (km.): 406.279	Building: CUB2	
Emission Point: 2C013			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.388	NYTME (km.): 406.283	Building: CUB2	

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Emission Point: 2C014			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.394	NYTME (km.): 406.287	Building: CUB2	
Emission Point: 2C015			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.401	NYTME (km.): 406.292	Building: CUB2	
Emission Point: 2C016			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.406	NYTME (km.): 406.296	Building: CUB2	
Emission Point: 2C017			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.412	NYTME (km.): 406.3	Building: CUB2	
Emission Point: 2C018			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.419	NYTME (km.): 406.306	Building: CUB2	
Emission Point: 2C019			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.425	NYTME (km.): 406.31	Building: CUB2	
Emission Point: 2C020			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.33	NYTME (km.): 406.219	Building: CUB2	
Emission Point: 2C021			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.337	NYTME (km.): 406.224	Building: CUB2	
Emission Point: 2C022			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.343	NYTME (km.): 406.228	Building: CUB2	
Emission Point: 2C023			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.348	NYTME (km.): 406.232	Building: CUB2	
Emission Point: 2C024			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.335	NYTME (km.): 406.237	Building: CUB2	
Emission Point: 2C025			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.355	NYTME (km.): 406.237	Building: CUB2	
Emission Point: 2C026			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.367	NYTME (km.): 406.246	Building: CUB2	

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Emission Point: 2C027			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.374	NYTME (km.): 406.274	Building: CUB2	
Emission Point: 2C028			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.379	NYTME (km.): 406.255	Building: CUB2	
Emission Point: 2C029			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.385	NYTME (km.): 406.259	Building: CUB2	
Emission Point: 2C030			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.393	NYTME (km.): 406.264	Building: CUB2	
Emission Point: 2C031			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.399	NYTME (km.): 406.238	Building: CUB2	
Emission Point: 2C032			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.404	NYTME (km.): 406.272	Building: CUB2	
Emission Point: 2C033			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.412	NYTME (km.): 406.278	Building: CUB2	
Emission Point: 2C034			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.417	NYTME (km.): 406.282	Building: CUB2	
Emission Point: 2C035			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.423	NYTME (km.): 406.286	Building: CUB2	
Emission Point: 2C036			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.43	NYTME (km.): 406.291	Building: CUB2	
Emission Point: 2C037			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.435	NYTME (km.): 406.295	Building: CUB2	
Emission Point: 2C038			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.341	NYTME (km.): 406.204	Building: CUB2	
Emission Point: 2C039			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.348	NYTME (km.): 406.209	Building: CUB2	

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Emission Point: 2C040			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.354	NYTME (km.): 406.213	Building: CUB2	
Emission Point: 2C041			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.359	NYTME (km.): 406.218	Building: CUB2	
Emission Point: 2C042			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.366	NYTME (km.): 406.223	Building: CUB2	
Emission Point: 2C043			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.372	NYTME (km.): 406.227	Building: CUB2	
Emission Point: 2C044			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.378	NYTME (km.): 406.231	Building: CUB2	
Emission Point: 2C045			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.368	NYTME (km.): 406.27	Building: CUB2	
Emission Point: 2C046			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.39	NYTME (km.): 406.24	Building: CUB2	
Emission Point: 2C047			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.396	NYTME (km.): 406.245	Building: CUB2	
Emission Point: 2C048			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.404	NYTME (km.): 406.249	Building: CUB2	
Emission Point: 2C049			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.41	NYTME (km.): 406.253	Building: CUB2	
Emission Point: 2C050			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.415	NYTME (km.): 406.258	Building: CUB2	
Emission Point: 2C051			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.423	NYTME (km.): 406.263	Building: CUB2	
Emission Point: 2C052			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.428	NYTME (km.): 406.267	Building: CUB2	

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Emission Point: 2C053			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.434	NYTME (km.): 406.271	Building: CUB2	
Emission Point: 2C054			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.441	NYTME (km.): 406.277	Building: CUB2	
Emission Point: 2C055			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.446	NYTME (km.): 406.281	Building: CUB2	
Emission Point: 2C056			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.43	NYTME (km.): 406.314	Building: CUB2	
Emission Point: 2C057			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.438	NYTME (km.): 406.318	Building: CUB2	
Emission Point: 2C058			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.443	NYTME (km.): 406.322	Building: CUB2	
Emission Point: 2C060			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.474	NYTME (km.): 406.345	Building: CUB2	
Emission Point: 2C061			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.48	NYTME (km.): 406.35	Building: CUB2	
Emission Point: 2C062			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.486	NYTME (km.): 406.354	Building: CUB2	
Emission Point: 2C063			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.493	NYTME (km.): 406.358	Building: CUB2	
Emission Point: 2C064			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.499	NYTME (km.): 406.363	Building: CUB2	
Emission Point: 2C065			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.505	NYTME (km.): 406.367	Building: CUB2	
Emission Point: 2C066			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.512	NYTME (km.): 406.372	Building: CUB2	

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Emission Point: 2C067			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.517	NYTME (km.): 406.376	Building: CUB2	
Emission Point: 2C068			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.523	NYTME (km.): 406.381	Building: CUB2	
Emission Point: 2C069			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.53	NYTME (km.): 406.386	Building: CUB2	
Emission Point: 2C070			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.536	NYTME (km.): 406.39	Building: CUB2	
Emission Point: 2C071			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.541	NYTME (km.): 406.394	Building: CUB2	
Emission Point: 2C072			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.441	NYTME (km.): 406.299	Building: CUB2	
Emission Point: 2C073			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.449	NYTME (km.): 406.304	Building: CUB2	
Emission Point: 2C074			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.454	NYTME (km.): 406.308	Building: CUB2	
Emission Point: 2C075			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.46	NYTME (km.): 406.312	Building: CUB2	
Emission Point: 2C076			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.467	NYTME (km.): 406.317	Building: CUB2	
Emission Point: 2C077			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.473	NYTME (km.): 406.321	Building: CUB2	
Emission Point: 2C078			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.455	NYTME (km.): 406.332	Building: CUB2	
Emission Point: 2C079			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.485	NYTME (km.): 406.331	Building: CUB2	

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Emission Point: 2C080			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.491	NYTME (km.): 406.335	Building: CUB2	
Emission Point: 2C081			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.496	NYTME (km.): 406.339	Building: CUB2	
Emission Point: 2C082			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.504	NYTME (km.): 406.344	Building: CUB2	
Emission Point: 2C083			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.51	NYTME (km.): 406.348	Building: CUB2	
Emission Point: 2C084			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.516	NYTME (km.): 406.352	Building: CUB2	
Emission Point: 2C085			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.523	NYTME (km.): 406.358	Building: CUB2	
Emission Point: 2C086			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.528	NYTME (km.): 406.362	Building: CUB2	
Emission Point: 2C087			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.534	NYTME (km.): 406.366	Building: CUB2	
Emission Point: 2C088			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.541	NYTME (km.): 406.371	Building: CUB2	
Emission Point: 2C089			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.547	NYTME (km.): 406.375	Building: CUB2	
Emission Point: 2C090			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.552	NYTME (km.): 406.38	Building: CUB2	
Emission Point: 2C091			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.452	NYTME (km.): 406.285	Building: CUB2	
Emission Point: 2C092			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.46	NYTME (km.): 406.289	Building: CUB2	

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Emission Point: 2C093			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.465	NYTME (km.): 406.293	Building: CUB2	
Emission Point: 2C094			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.471	NYTME (km.): 406.297	Building: CUB2	
Emission Point: 2C095			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.478	NYTME (km.): 406.303	Building: CUB2	
Emission Point: 2C096			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.484	NYTME (km.): 406.307	Building: CUB2	
Emission Point: 2C097			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.461	NYTME (km.): 406.336	Building: CUB2	
Emission Point: 2C098			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.496	NYTME (km.): 406.316	Building: CUB2	
Emission Point: 2C099			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.502	NYTME (km.): 406.32	Building: CUB2	
Emission Point: 2C100			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.508	NYTME (km.): 406.324	Building: CUB2	
Emission Point: 2C101			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.515	NYTME (km.): 406.329	Building: CUB2	
Emission Point: 2C102			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.521	NYTME (km.): 406.333	Building: CUB2	
Emission Point: 2C103			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.527	NYTME (km.): 406.338	Building: CUB2	
Emission Point: 2C104			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.534	NYTME (km.): 406.343	Building: CUB2	
Emission Point: 2C105			
Height (ft.): 101	Diameter (in.): 230		
NYTMN (km.): 4782.539	NYTME (km.): 406.347	Building: CUB2	

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Emission Point: 2C106
Height (ft.): 101 Diameter (in.): 230
NYTMN (km.): 4782.545 NYTME (km.): 406.351 Building: CUB2

Emission Point: 2C107
Height (ft.): 101 Diameter (in.): 230
NYTMN (km.): 4782.552 NYTME (km.): 406.357 Building: CUB2

Emission Point: 2C108
Height (ft.): 101 Diameter (in.): 230
NYTMN (km.): 4782.557 NYTME (km.): 406.361 Building: CUB2

Emission Point: 2C109
Height (ft.): 101 Diameter (in.): 230
NYTMN (km.): 4782.563 NYTME (km.): 406.365 Building: CUB2

Emission Point: 2D001
Height (ft.): 30 Diameter (in.): 3
NYTMN (km.): 4782.573 NYTME (km.): 405.903

Emission Point: 2D002
Height (ft.): 30 Diameter (in.): 3
NYTMN (km.): 4782.573 NYTME (km.): 405.903

Emission Point: 2D003
Height (ft.): 30 Diameter (in.): 3
NYTMN (km.): 4782.573 NYTME (km.): 405.903

Emission Point: 2D004
Height (ft.): 30 Diameter (in.): 3
NYTMN (km.): 4782.573 NYTME (km.): 405.903

Emission Point: 2G001
Height (ft.): 42 Diameter (in.): 288
NYTMN (km.): 4783.093 NYTME (km.): 406.808

Emission Point: 2G002
Height (ft.): 42 Diameter (in.): 288
NYTMN (km.): 4783.083 NYTME (km.): 406.8

Emission Point: 2G003
Height (ft.): 42 Diameter (in.): 288
NYTMN (km.): 4783.072 NYTME (km.): 406.792

Emission Point: 2G004
Height (ft.): 42 Diameter (in.): 288
NYTMN (km.): 4783.017 NYTME (km.): 406.752

Emission Point: 2G005
Height (ft.): 42 Diameter (in.): 288
NYTMN (km.): 4783.007 NYTME (km.): 406.744

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Emission Point:	2G006		
Height (ft.):	42	Diameter (in.):	288
NYTMN (km.):	4782.997	NYTME (km.):	406.736
Emission Point:	2H001		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.545	NYTME (km.):	405.96
		Building:	HPM2-S
Emission Point:	2H002		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.541	NYTME (km.):	405.958
		Building:	HPM2-S
Emission Point:	2H003		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.537	NYTME (km.):	405.954
		Building:	HPM2-S
Emission Point:	2H004		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.533	NYTME (km.):	405.952
		Building:	HPM2-S
Emission Point:	2H005		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.739	NYTME (km.):	406.099
		Building:	HPM2-N
Emission Point:	2H006		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.735	NYTME (km.):	406.096
		Building:	HPM2-N
Emission Point:	2H007		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.731	NYTME (km.):	406.093
		Building:	HPM2-N
Emission Point:	2H008		
Height (ft.):	101	Diameter (in.):	42
NYTMN (km.):	4782.727	NYTME (km.):	406.09
		Building:	HPM2-N
Emission Point:	2H009		
Height (ft.):	101	Diameter (in.):	30
NYTMN (km.):	4782.488	NYTME (km.):	405.922
		Building:	HPM2-S
Emission Point:	2H010		
Height (ft.):	101	Diameter (in.):	30
NYTMN (km.):	4782.484	NYTME (km.):	405.92
		Building:	HPM2-S
Emission Point:	2H011		
Height (ft.):	101	Diameter (in.):	30
NYTMN (km.):	4782.48	NYTME (km.):	405.917
		Building:	HPM2-S
Emission Point:	2H012		
Height (ft.):	101	Diameter (in.):	30
NYTMN (km.):	4782.476	NYTME (km.):	405.914
		Building:	HPM2-S

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Emission Point:	2H013			
Height (ft.):	101	Diameter (in.):	30	
NYTMN (km.):	4782.793	NYTME (km.):	406.141	Building: HPM2-N
Emission Point:	2H014			
Height (ft.):	101	Diameter (in.):	30	
NYTMN (km.):	4782.789	NYTME (km.):	406.139	Building: HPM2-N
Emission Point:	2H015			
Height (ft.):	101	Diameter (in.):	30	
NYTMN (km.):	4782.785	NYTME (km.):	406.136	Building: HPM2-N
Emission Point:	2H016			
Height (ft.):	101	Diameter (in.):	30	
NYTMN (km.):	4782.781	NYTME (km.):	406.133	Building: HPM2-N
Emission Point:	2H017			
Height (ft.):	101	Diameter (in.):	34	
NYTMN (km.):	4782.606	NYTME (km.):	405.964	Building: HPM2-S
Emission Point:	2H018			
Height (ft.):	101	Diameter (in.):	6	
NYTMN (km.):	4782.581	NYTME (km.):	405.986	Building: HPM2-S
Emission Point:	2H019			
Height (ft.):	101	Diameter (in.):	34	
NYTMN (km.):	4782.604	NYTME (km.):	405.963	Building: HPM2-S
Emission Point:	2H020			
Height (ft.):	101	Diameter (in.):	6	
NYTMN (km.):	4782.574	NYTME (km.):	405.98	Building: HPM2-S
Emission Point:	2H021			
Height (ft.):	101	Diameter (in.):	34	
NYTMN (km.):	4782.59	NYTME (km.):	405.953	Building: HPM2-S
Emission Point:	2H022			
Height (ft.):	101	Diameter (in.):	6	
NYTMN (km.):	4782.567	NYTME (km.):	405.975	Building: HPM2-S
Emission Point:	2H023			
Height (ft.):	101	Diameter (in.):	34	
NYTMN (km.):	4782.588	NYTME (km.):	405.952	Building: HPM2-S
Emission Point:	2H024			
Height (ft.):	101	Diameter (in.):	6	
NYTMN (km.):	4782.56	NYTME (km.):	405.97	Building: HPM2-S
Emission Point:	2H025			
Height (ft.):	101	Diameter (in.):	34	
NYTMN (km.):	4782.721	NYTME (km.):	406.048	Building: HPM2-N

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Emission Point: 2H026			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.713	NYTME (km.): 406.08	Building: HPM2-N	
Emission Point: 2H027			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.719	NYTME (km.): 406.046	Building: HPM2-N	
Emission Point: 2H028			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.706	NYTME (km.): 406.075	Building: HPM2-N	
Emission Point: 2H029			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.706	NYTME (km.): 406.036	Building: HPM2-N	
Emission Point: 2H030			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.699	NYTME (km.): 406.07	Building: HPM2-N	
Emission Point: 2H031			
Height (ft.): 101	Diameter (in.): 34		
NYTMN (km.): 4782.704	NYTME (km.): 406.035	Building: HPM2-N	
Emission Point: 2H032			
Height (ft.): 101	Diameter (in.): 6		
NYTMN (km.): 4782.691	NYTME (km.): 406.065	Building: HPM2-N	

Item 154.10:

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

Emission Unit: 2-WWBIO			
Emission Point: 2B001			
Height (ft.): 71	Diameter (in.): 52		
NYTMN (km.): 4783.689	NYTME (km.): 405.71	Building: BIO2	
Emission Point: 2B002			
Height (ft.): 71	Diameter (in.): 52		
NYTMN (km.): 4783.69	NYTME (km.): 405.72	Building: BIO2	
Emission Point: 2W001			
Height (ft.): 144	Diameter (in.): 26		
NYTMN (km.): 4783.009	NYTME (km.): 406.294	Building: WWT2	
Emission Point: 2W002			
Height (ft.): 144	Diameter (in.): 26		
NYTMN (km.): 4783.012	NYTME (km.): 406.29	Building: WWT2	
Emission Point: 2W003			
Height (ft.): 144	Diameter (in.): 26		

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NYTMN (km.): 4783.019	NYTME (km.): 406.281	Building: WWT2
Emission Point: 2W004		
Height (ft.): 144	Diameter (in.): 26	
NYTMN (km.): 4783.022	NYTME (km.): 406.276	Building: WWT2
Emission Point: 2W005		
Height (ft.): 144	Diameter (in.): 10	
NYTMN (km.): 4782.996	NYTME (km.): 406.312	Building: WWT2
Emission Point: 2W006		
Height (ft.): 144	Diameter (in.): 10	
NYTMN (km.): 4782.999	NYTME (km.): 406.307	Building: WWT2
Emission Point: 2W007		
Height (ft.): 144	Diameter (in.): 10	
NYTMN (km.): 4783.004	NYTME (km.): 406.302	Building: WWT2
Emission Point: 2W008		
Height (ft.): 144	Diameter (in.): 6	
NYTMN (km.): 4782.984	NYTME (km.): 406.329	Building: WWT2
Emission Point: 2W009		
Height (ft.): 144	Diameter (in.): 6	
NYTMN (km.): 4782.987	NYTME (km.): 406.325	Building: WWT2
Emission Point: 2W010		
Height (ft.): 144	Diameter (in.): 6	
NYTMN (km.): 4782.991	NYTME (km.): 406.32	Building: WWT2
Emission Point: 2W011		
Height (ft.): 46	Diameter (in.): 906	
NYTMN (km.): 4782.537	NYTME (km.): 407.045	
Emission Point: 2W012		
Height (ft.): 46	Diameter (in.): 906	
NYTMN (km.): 4782.51	NYTME (km.): 407.082	

Condition 155: Process Definition By Emission Unit
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 155.1:

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

Emission Unit: 1-ADMPR	
Process: AA1	Source Classification Code: 3-13-065-99
Process Description:	
Laboratory operations exhausting to acid gas scrubbers in the Admin/Probe buildings supporting Fab 1.	

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Emission Source/Control: AS113 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS114 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ALB01 - Process

Item 155.2:

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

Emission Unit: 1-ADMPR
Process: AS1 Source Classification Code: 3-13-065-99
Process Description:
Laboratory operations exhausting solvent gases in the
Admin/Probe buildings supporting Fab 1.

Emission Source/Control: TO095 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: TO096 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: ALB01 - Process

Item 155.3:

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

Emission Unit: 1-CMBOP
Process: BL1 Source Classification Code: 1-02-006-02
Process Description: Natural-gas fired boilers.

Emission Source/Control: BLR01 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BLR02 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BLR03 - Combustion
Design Capacity: 32.7 million Btu per hour

Item 155.4:

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

Emission Unit: 1-CMBOP
Process: DFP Source Classification Code: 2-02-001-02
Process Description: Diesel-fired backup fire pump engine.

Emission Source/Control: FP001 - Combustion
Design Capacity: 250 horsepower (mechanical)

Item 155.5:

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

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

Emission Unit: 1-CMBOP

Process: EMI

Source Classification Code: 2-01-001-02

Process Description: Diesel-fired emergency generators.

Emission Source/Control: DG001 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG002 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG003 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG004 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG005 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG006 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG007 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG008 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG009 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG010 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG011 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG012 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG013 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG014 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG015 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG016 - Combustion

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Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG017 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG018 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG019 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG020 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG021 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG022 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG023 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG024 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG025 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG026 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG027 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG028 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG029 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG030 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG031 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG032 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG033 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

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Emission Source/Control: DG034 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG035 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG036 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG037 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG038 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG039 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG040 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG041 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG042 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG043 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG044 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG045 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG046 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG047 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG048 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG049 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG050 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

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Facility DEC ID: 7312400575

Emission Source/Control: DG051 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG052 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG053 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG054 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG055 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG056 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG057 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG058 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG059 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG060 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Item 155.6:

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

Emission Unit: 1-CMBOP

Process: WV1

Source Classification Code: 1-02-006-02

Process Description:

Water bath vaporizers fired by natural gas as a backup
measure to vaporize liquid nitrogen.

Emission Source/Control: WBV01 - Combustion
Design Capacity: 42.8 million Btu per hour

Emission Source/Control: WBV02 - Combustion
Design Capacity: 42.8 million Btu per hour

Emission Source/Control: WBV03 - Combustion
Design Capacity: 42.8 million Btu per hour

Emission Source/Control: WBV04 - Combustion
Design Capacity: 42.8 million Btu per hour

Item 155.7:

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

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

Emission Unit: 1-FABOP

Process: FA1

Source Classification Code: 3-13-065-99

Process Description:

Fab 1 semiconductor manufacturing exhausting to centralized acid gas scrubbers, including Ion Implant, Plasma Etch, and Wet Etch/Wet Clean processes, as well as associated safety and support equipment and control devices, including point-of-use (POU) control devices and regenerative catalytic systems (RCS).

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: AS005 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS006 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS008 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS009 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS010 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS011 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS012 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS013 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS014 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS015 - Control

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Control Type: WET SCRUBBER

Emission Source/Control: AS016 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS017 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS018 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS019 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS020 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS021 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS022 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS023 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS024 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS025 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS026 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS027 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS028 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS029 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS031 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS032 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS033 - Control
Control Type: WET SCRUBBER

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Emission Source/Control: AS034 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS035 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS036 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS037 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS038 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS039 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS040 - Control
Control Type: WET SCRUBBER

Emission Source/Control: POU01 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: RCS01 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS02 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS03 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS04 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS05 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS06 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS07 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS08 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS09 - Control
Control Type: CATALYTIC OXIDATION

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: RCS10 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: IMP01 - Process

Emission Source/Control: PLE01 - Process

Emission Source/Control: WET01 - Process

Item 155.8:

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

Emission Unit: 1-FABOP

Process: FB1

Source Classification Code: 3-13-065-99

Process Description:

Fab 1 semiconductor manufacturing processes exhausting to centralized caustic gas scrubbers, including Photolithography, Wet Etch/Wet Clean, and Chemical-Mechanical Planarization processes, as well as associated safety and support equipment.

Emission Source/Control: BS001 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS002 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS003 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS005 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS006 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS007 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS008 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS009 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS010 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS011 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS012 - Control

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Control Type: WET SCRUBBER

Emission Source/Control: BS013 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS014 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS015 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS016 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CMP01 - Process

Emission Source/Control: PHO01 - Process

Emission Source/Control: ST001 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST002 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST003 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST004 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST005 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST006 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: WET01 - Process

Item 155.9:

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

Emission Unit: 1-FABOP

Process: FC1

Source Classification Code: 3-13-065-99

Process Description:

Fab 1 semiconductor manufacturing processes exhausting to centralized ionizing wet scrubbers capable of scrubbing NO₂, including Thin Films/Diffusion Deposition processes as well as associated safety and support equipment.

Emission Source/Control: CS001 - Control
Control Type: CHEMICAL OXIDATION

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CS002 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS003 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS004 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS005 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS006 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS007 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS008 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS009 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS010 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS011 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS014 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS015 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS016 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: TFD01 - Process

Item 155.10:

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

Emission Unit: 1-FABOP

Process: FG1

Source Classification Code: 3-13-065-99

Process Description:

General ventilation for Fab 1 including the cleanroom, which may include emissions of air contaminants not collected by other semiconductor manufacturing process exhaust systems.

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: GN001 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN002 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN003 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN004 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN005 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN006 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN007 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN008 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN009 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN010 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN011 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN012 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN013 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN014 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN015 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN016 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN017 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN018 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN019 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN020 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN021 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN022 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN023 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN024 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN025 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN026 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN027 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN028 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN029 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN030 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN031 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN032 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN033 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN034 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN035 - Process
Design Capacity: 55,000 cubic feet per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: GN036 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN037 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN038 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN039 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN040 - Process
Design Capacity: 55,000 cubic feet per minute

Item 155.11:

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

Emission Unit: 1-FABOP
Process: FS1 Source Classification Code: 3-13-065-99
Process Description:
Fab 1 semiconductor manufacturing processes exhausting to centralized rotor-concentrator thermal oxidizers, including Photolithography and Wet Etch/Wet clean processes, solvent waste storage, as well as associated safety and support equipment.

Emission Source/Control: TO001 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO002 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO003 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO004 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO005 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO006 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: TO007 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO008 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO009 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO010 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO011 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO012 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO013 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO014 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO015 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO016 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO017 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO018 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO019 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: TO020 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO021 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO022 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO023 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO024 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO025 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO026 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO027 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO028 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO029 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO030 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO031 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO032 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: TO033 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO034 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO035 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO036 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: PHO01 - Process

Emission Source/Control: WET01 - Process

Emission Source/Control: WS001 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS002 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS003 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS004 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS005 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS006 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS007 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS008 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS009 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS010 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS011 - Process
Design Capacity: 12,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: WS012 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS013 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS014 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS015 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS016 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS017 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS018 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS019 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS020 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS021 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS022 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS023 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS024 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS025 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS026 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS027 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS028 - Process
Design Capacity: 7,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: WS029 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS030 - Process
Design Capacity: 7,000 gallons

Item 155.12:

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

Emission Unit: 1-FUGEM
Process: RF1 Source Classification Code: 3-13-065-99
Process Description: FAB 1 FUGITIVE EMISSIONS - ROADWAYS

Emission Source/Control: RWY01 - Process

Item 155.13:

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

Emission Unit: 1-FUGEM
Process: SF1 Source Classification Code: 3-13-065-99
Process Description: FAB 1 FUGITIVE EMISSIONS - SF6

Emission Source/Control: SF601 - Process

Item 155.14:

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

Emission Unit: 1-HPMCU
Process: CA1 Source Classification Code: 3-13-065-00
Process Description:
Storage of acidic raw materials exhausting to acid gas scrubbers in the CUB building supporting Fab 1.

Emission Source/Control: AS089 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS090 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS091 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS092 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST045 - Process
Design Capacity: 4,000 gallons

Item 155.15:

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

Emission Unit: 1-HPMCU

Facility DEC ID: 7312400575

Process: CT1 Source Classification Code: 3-85-001-10
Process Description: Cooling towers supporting Fab 1.

Emission Source/Control: CT001 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT002 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT003 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT004 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT005 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT006 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT007 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT008 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT009 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT010 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT011 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT012 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT013 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT014 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT015 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT016 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT017 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT018 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT019 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT020 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT021 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT022 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT023 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT024 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT025 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT026 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT027 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT028 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT029 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT030 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT031 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT032 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT033 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT034 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT035 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT036 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT037 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT038 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT039 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT040 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT041 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT042 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT043 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT044 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT045 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT046 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT047 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT048 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT049 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT050 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT051 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT052 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT053 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT054 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT055 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT056 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT057 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT058 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT059 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT060 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT061 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT062 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT063 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT064 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT065 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT066 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT067 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT068 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT069 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT070 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT071 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT072 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT073 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT074 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT075 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT076 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT077 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT078 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT079 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT080 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT081 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT082 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT083 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT084 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT085 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT086 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT087 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT088 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT089 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT090 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT091 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT092 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT093 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT094 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT095 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT096 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT097 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT098 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT099 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT100 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT101 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT102 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT103 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT104 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT105 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT106 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT107 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT108 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT109 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT110 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT111 - Process
Design Capacity: 14,500 gallons per minute

Item 155.16:

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

Emission Unit: 1-HPMCU
Process: DT1 Source Classification Code: 4-04-001-21
Process Description: Storage of diesel fuel to support Fab 1 engines.

Emission Source/Control: DT001 - Process
Design Capacity: 25,000 gallons

Emission Source/Control: DT002 - Process
Design Capacity: 25,000 gallons

Emission Source/Control: DT003 - Process
Design Capacity: 25,000 gallons

Emission Source/Control: DT004 - Process
Design Capacity: 25,000 gallons

Item 155.17:

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

Emission Unit: 1-HPMCU
Process: FU1 Source Classification Code: 3-13-065-99
Process Description: Fugitive emissions related to Fab 1.

Emission Source/Control: ST078 - Process
Design Capacity: 7,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST079 - Process
Design Capacity: 2,000 gallons

Emission Source/Control: ST080 - Process
Design Capacity: 2,000 gallons

Emission Source/Control: ST081 - Process
Design Capacity: 2,000 gallons

Item 155.18:

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

Emission Unit: 1-HPMCU
Process: HA1 Source Classification Code: 4-07-146-97
Process Description:
Storage of acidic raw materials and waste materials
exhausting to acid gas scrubbers in the HPM1-S building
supporting Fab 1.

Emission Source/Control: AS081 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS082 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS083 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS084 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST013 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST014 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST015 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST016 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST017 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST018 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST025 - Process
Design Capacity: 10,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST026 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST027 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST028 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST033 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST034 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST037 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST038 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST041 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: ST042 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: WS061 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS062 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS063 - Process
Design Capacity: 13,209 gallons

Item 155.19:

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

Emission Unit: 1-HPMCU

Process: HA2

Source Classification Code: 4-07-146-97

Process Description:

Storage of acidic raw materials and waste materials
exhausting to acid gas scrubbers in the HPM1-N building
supporting Fab 1.

Emission Source/Control: AS085 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS086 - Control
Control Type: WET SCRUBBER

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: AS087 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS088 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST019 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST020 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST021 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST022 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST023 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST024 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST029 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST030 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST031 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST032 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST035 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST036 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST039 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST040 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST043 - Process
Design Capacity: 7,600 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST044 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: WS064 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS065 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS066 - Process
Design Capacity: 13,209 gallons

Item 155.20:

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

Emission Unit: 1-HPMCU
Process: HB1 Source Classification Code: 4-07-146-97
Process Description:
Storage of basic raw materials exhausting to caustic gas scrubbers in the HPM1-S building supporting Fab 1.

Emission Source/Control: BS033 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS034 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS035 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS036 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST046 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST047 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST048 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST049 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST054 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST055 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST058 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 6,500 gallons

Emission Source/Control: ST059 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST062 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST063 - Process
Design Capacity: 6,500 gallons

Item 155.21:

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

Emission Unit: 1-HPMCU
Process: HB2 Source Classification Code: 4-07-146-97
Process Description:
Storage of basic raw materials exhausting to caustic gas scrubbers in the HPM1-N buildings supporting Fab 1.

Emission Source/Control: BS037 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS038 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS039 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS040 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST050 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST051 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST052 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST053 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST056 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST057 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST060 - Process
Design Capacity: 6,500 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST061 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST064 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST065 - Process
Design Capacity: 6,500 gallons

Item 155.22:

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

Emission Unit: 1-HPMCU
Process: HS1 Source Classification Code: 4-07-146-97
Process Description:
Storage of solvents in the HPM1-S buildings supporting
Fab 1.

Emission Source/Control: TO073 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO074 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO075 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO076 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: SOD01 - Process

Emission Source/Control: ST066 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST067 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST068 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST069 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST074 - Process
Design Capacity: 6,500 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST075 - Process
Design Capacity: 6,500 gallons

Item 155.23:

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

Emission Unit: 1-HPMCU
Process: HS2 Source Classification Code: 4-07-146-97
Process Description:
Storage of solvents in the HPM1-N building supporting Fab
1.

Emission Source/Control: TO077 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO078 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO079 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO080 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: SOD02 - Process

Emission Source/Control: ST070 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST071 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST072 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST073 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST076 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST077 - Process
Design Capacity: 6,500 gallons

Item 155.24:

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

Emission Unit: 1-WWBIO

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Process: BG1 Source Classification Code: 4-07-146-97

Process Description:

Bilological treatment processes and storage of raw materials supporting Fab 1.

Emission Source/Control: BIO01 - Process

Emission Source/Control: OS001 - Process

Design Capacity: 66,234 cubic feet per minute

Emission Source/Control: OS002 - Process

Design Capacity: 66,234 cubic feet per minute

Emission Source/Control: ST176 - Process

Design Capacity: 18,000 gallons

Emission Source/Control: ST177 - Process

Design Capacity: 6,500 gallons

Emission Source/Control: ST178 - Process

Design Capacity: 6,500 gallons

Item 155.25:

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

Emission Unit: 1-WWBIO

Process: FE1

Source Classification Code: 4-07-146-97

Process Description: Fugitive emissions related to Fab 1.

Emission Source/Control: ST179 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST180 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST181 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST182 - Process

Design Capacity: 5,000 gallons

Emission Source/Control: ST183 - Process

Design Capacity: 20,000 gallons

Item 155.26:

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

Emission Unit: 1-WWBIO

Process: SL1

Source Classification Code: 3-05-016-13

Process Description: Solid material storage silos supporting Fab 1.

Emission Source/Control: SIL01 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 111.4 tons

Emission Source/Control: SIL02 - Process

Design Capacity: 111.4 tons

Item 155.27:

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

Emission Unit: 1-WWBIO

Process: WA1

Source Classification Code: 4-07-146-97

Process Description:

Wastewater treatment operations and storage of acidic raw materials and waste materials exhausting to acid gas scrubbers in the WWT building supporting Fab 1.

Emission Source/Control: AS105 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS106 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS107 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS108 - Control

Control Type: WET SCRUBBER

Emission Source/Control: ST151 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST152 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST153 - Process

Design Capacity: 5,000 gallons

Emission Source/Control: ST154 - Process

Design Capacity: 5,000 gallons

Emission Source/Control: ST155 - Process

Design Capacity: 16,000 gallons

Emission Source/Control: ST156 - Process

Design Capacity: 16,000 gallons

Emission Source/Control: ST157 - Process

Design Capacity: 16,000 gallons

Emission Source/Control: ST158 - Process

Design Capacity: 16,000 gallons

Emission Source/Control: ST159 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 16,000 gallons

Emission Source/Control: ST160 - Process
Design Capacity: 16,000 gallons

Emission Source/Control: ST161 - Process
Design Capacity: 5,300 gallons

Emission Source/Control: ST162 - Process
Design Capacity: 5,300 gallons

Emission Source/Control: ST163 - Process
Design Capacity: 2,600 gallons

Emission Source/Control: ST164 - Process
Design Capacity: 2,600 gallons

Emission Source/Control: ST165 - Process
Design Capacity: 15,000 gallons

Emission Source/Control: ST166 - Process
Design Capacity: 15,000 gallons

Emission Source/Control: ST167 - Process
Design Capacity: 16,500 gallons

Emission Source/Control: ST168 - Process
Design Capacity: 16,500 gallons

Emission Source/Control: WLB01 - Process

Emission Source/Control: WS073 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS074 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS075 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS076 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS077 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS078 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS079 - Process
Design Capacity: 13,209 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: WS080 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS081 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS082 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS083 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS084 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS085 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS086 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS087 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS088 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS089 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS090 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS091 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS092 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WWT01 - Process

Item 155.28:

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

Emission Unit: 1-WWBIO

Process: WB1

Source Classification Code: 4-07-146-97

Process Description:

Wastewater treatment operations and storage of basic raw materials exhausting to caustic gas scrubbers in the WWT building supporting Fab 1.

Emission Source/Control: BS049 - Control

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Control Type: WET SCRUBBER

Emission Source/Control: BS050 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS051 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST169 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST170 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST171 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST172 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST173 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST174 - Process
Design Capacity: 8,000 gallons

Emission Source/Control: ST175 - Process
Design Capacity: 8,000 gallons

Emission Source/Control: WLB01 - Process

Emission Source/Control: WWT01 - Process

Item 155.29:

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

Emission Unit: 1-WWBIO

Process: WS1

Source Classification Code: 4-07-146-97

Process Description:

Wastewater treatment operations and storage of solvents
exhausting to rotor-concentrator thermal oxidizers in the
WWT building supporting Fab 1.

Emission Source/Control: TO089 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: TO090 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: TO091 - Control
Control Type: THERMAL OXIDATION

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: WLB01 - Process

Emission Source/Control: WWT01 - Process

Item 155.30:

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

Emission Unit: 2-ADMPR

Process: AA2

Source Classification Code: 3-13-065-99

Process Description:

Laboratory operations exhausting solvent gases in the
Admin/Probe buildings supporting Fab 2.

Emission Source/Control: AS115 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS116 - Control

Control Type: WET SCRUBBER

Emission Source/Control: ALB02 - Process

Item 155.31:

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

Emission Unit: 2-ADMPR

Process: AS2

Source Classification Code: 3-13-065-99

Process Description:

Laboratory operations exhausting solvent gases in the
Admin/Probe buildings supporting Fab 2.

Emission Source/Control: TO097 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: TO098 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: ALB02 - Process

Item 155.32:

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

Emission Unit: 2-CMBOP

Process: BL2

Source Classification Code: 1-02-006-02

Process Description: Natural-gas fired boilers.

Emission Source/Control: BLR04 - Combustion

Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BLR05 - Combustion

Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BLR06 - Combustion

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 32.7 million Btu per hour

Item 155.33:

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

Emission Unit: 2-CMBOP

Process: EM2

Source Classification Code: 2-01-001-02

Process Description: Diesel-fired emergency generators.

Emission Source/Control: DG061 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG062 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG063 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG064 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG065 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG066 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG067 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG068 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG069 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG070 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG071 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG072 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG073 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG074 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG075 - Combustion

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG076 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG077 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG078 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG079 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG080 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG081 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG082 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG083 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG084 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG085 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG086 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG087 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG088 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG089 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG090 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG091 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG092 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: DG093 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG094 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG095 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG096 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG097 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG098 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG099 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG100 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG101 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG102 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG103 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG104 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG105 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG106 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG107 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG108 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG109 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: DG110 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG111 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG112 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG113 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG114 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG115 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG116 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG117 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Emission Source/Control: DG118 - Combustion
Design Capacity: 3,350 horsepower (mechanical)

Item 155.34:

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

Emission Unit: 2-CMBOP
Process: WV2 Source Classification Code: 1-02-006-02
Process Description:
Water bath vaporizers fired by natural gas as a backup
measure to vaporize liquid nitrogen.

Emission Source/Control: WBV05 - Combustion
Design Capacity: 42.8 million Btu per hour

Emission Source/Control: WBV06 - Combustion
Design Capacity: 42.8 million Btu per hour

Emission Source/Control: WBV07 - Combustion
Design Capacity: 42.8 million Btu per hour

Emission Source/Control: WBV08 - Combustion
Design Capacity: 42.8 million Btu per hour

Item 155.35:

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

Emission Unit: 2-FABOP

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Process: FA2

Source Classification Code: 3-13-065-99

Process Description:

Fab 2 semiconductor manufacturing process exhausting to centralized acid gas scrubbers, including Ion Implant, Plasma Etch, and Wet Etch/Wet Clean processes, as well as associated safety and support equipment and control devices, including point-of-use (POU) control devices and regenerative catalytic systems (RCS).

Emission Source/Control: AS041 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS042 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS043 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS044 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS045 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS046 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS047 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS048 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS049 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS050 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS051 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS052 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS053 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS054 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS055 - Control

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Facility DEC ID: 7312400575

Control Type: WET SCRUBBER

Emission Source/Control: AS056 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS057 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS058 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS059 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS060 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS061 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS062 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS063 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS064 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS065 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS066 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS067 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS068 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS069 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS070 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS071 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS072 - Control
Control Type: WET SCRUBBER

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Emission Source/Control: AS073 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS074 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS075 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS076 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS077 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS078 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS079 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS080 - Control
Control Type: WET SCRUBBER

Emission Source/Control: POU02 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: RCS11 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS12 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS13 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS14 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS15 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS16 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS17 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS18 - Control
Control Type: CATALYTIC OXIDATION

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Facility DEC ID: 7312400575

Emission Source/Control: RCS19 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: RCS20 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: IMP02 - Process

Emission Source/Control: PLE02 - Process

Emission Source/Control: WET02 - Process

Item 155.36:

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

Emission Unit: 2-FABOP

Process: FB2

Source Classification Code: 3-13-065-99

Process Description:

Fab 2 semiconductor manufacturing processes exhausting to centralized caustic gas scrubbers, including Photolithography, Wet Etch/Wet Clean, and Chemical-Mechanical Planarization processes, as well as associated safety and support equipment.

Emission Source/Control: BS017 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS018 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS019 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS020 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS021 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS022 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS023 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS024 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS025 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS026 - Control

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Control Type: WET SCRUBBER

Emission Source/Control: BS027 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS028 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS029 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS030 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS031 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS032 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CMP02 - Process

Emission Source/Control: PHO02 - Process

Emission Source/Control: ST007 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST008 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST009 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST010 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST011 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: ST012 - Process
Design Capacity: 5,400 gallons

Emission Source/Control: WET02 - Process

Item 155.37:

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

Emission Unit: 2-FABOP

Process: FC2

Source Classification Code: 3-13-065-99

Process Description:

Fab 2 semiconductor manufacturing processes exhausting to centralized ionizing wet scrubbers capable of scrubbing

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NO₂, including Thin Films/Diffusion Deposition processes
as well as associated safety and support equipment.

Emission Source/Control: CS017 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS018 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS019 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS020 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS021 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS022 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS023 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS024 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS025 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS026 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS027 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS028 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS029 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS030 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS031 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: CS032 - Control
Control Type: CHEMICAL OXIDATION

Emission Source/Control: TFD02 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Item 155.38:

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

Emission Unit: 2-FABOP

Process: FG2

Source Classification Code: 3-13-065-99

Process Description:

General ventilation for Fab 1 including the cleanroom,
which may include emissions of air contaminants not
collected by other semiconductor manufacturing process
exhaust systems.

Emission Source/Control: GN041 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN042 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN043 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN044 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN045 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN046 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN047 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN048 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN049 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN050 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN051 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN052 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN053 - Process

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN054 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN055 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN056 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN057 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN058 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN059 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN060 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN061 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN062 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN063 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN064 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN065 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN066 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN067 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN068 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN069 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN070 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN071 - Process
Design Capacity: 55,000 cubic feet per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: GN072 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN073 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN074 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN075 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN076 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN077 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN078 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN079 - Process
Design Capacity: 55,000 cubic feet per minute

Emission Source/Control: GN080 - Process
Design Capacity: 55,000 cubic feet per minute

Item 155.39:

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

Emission Unit: 2-FABOP

Process: FS2

Source Classification Code: 3-13-065-99

Process Description:

Fab 2 semiconductor manufacturing processes exhausting to centralized rotor-concentrator thermal oxidizers, including Photolithography and Wet Etch/Wet Clean processes, solvent waste storage, as well as associated safety and support equipment.

Emission Source/Control: TO037 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO038 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO039 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: TO040 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO041 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO042 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO043 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO044 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO045 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO046 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO047 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO048 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO049 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO050 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO051 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO052 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: TO053 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO054 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO055 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO056 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO057 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO058 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO059 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO060 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO061 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO062 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO063 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO064 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO065 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: TO066 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO067 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO068 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO069 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO070 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO071 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: TO072 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: PHO02 - Process

Emission Source/Control: WET02 - Process

Emission Source/Control: WS031 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS032 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS033 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS034 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS035 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS036 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS037 - Process
Design Capacity: 12,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: WS038 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS039 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS040 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS041 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS042 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS043 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS044 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS045 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS046 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS047 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS048 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS049 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS050 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS051 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS052 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS053 - Process
Design Capacity: 12,000 gallons

Emission Source/Control: WS054 - Process
Design Capacity: 12,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: WS055 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS056 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS057 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS058 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS059 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: WS060 - Process
Design Capacity: 7,000 gallons

Item 155.40:

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

Emission Unit: 2-FUGEM
Process: RF2 Source Classification Code: 3-13-065-99
Process Description: FAB 2 FUGITIVE EMISSIONS - ROADWAYS

Emission Source/Control: RWY02 - Process

Item 155.41:

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

Emission Unit: 2-FUGEM
Process: SF2 Source Classification Code: 3-13-065-99
Process Description: FAB 2 FUGITIVE EMISSIONS - SF6

Emission Source/Control: SF602 - Process

Item 155.42:

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

Emission Unit: 2-HPMCU
Process: CA2 Source Classification Code: 4-07-146-97
Process Description:
Storage of acidic raw materials exhausting to acid gas scrubbers in the CUB building supporting Fab 2.

Emission Source/Control: AS101 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS102 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS103 - Control

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Control Type: WET SCRUBBER

Emission Source/Control: AS104 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST114 - Process
Design Capacity: 4,000 gallons

Item 155.43:

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

Emission Unit: 2-HPMCU
Process: CT2 Source Classification Code: 3-85-001-10
Process Description: Cooling towers supporting Fab 2.

Emission Source/Control: CT112 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT113 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT114 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT115 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT116 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT117 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT118 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT119 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT120 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT121 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT122 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT123 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT124 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT125 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT126 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT127 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT128 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT129 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT130 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT131 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT132 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT133 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT134 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT135 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT136 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT137 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT138 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT139 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT140 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT141 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT142 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT143 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT144 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT145 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT146 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT147 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT148 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT149 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT150 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT151 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT152 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT153 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT154 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT155 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT156 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT157 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT158 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT159 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT160 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT161 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT162 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT163 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT164 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT165 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT166 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT167 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT168 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT169 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT170 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT171 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT172 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT173 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT174 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT175 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT176 - Process

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Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT177 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT178 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT179 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT180 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT181 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT182 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT183 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT184 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT185 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT186 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT187 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT188 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT189 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT190 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT191 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT192 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT193 - Process
Design Capacity: 2,500 gallons per minute

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Emission Source/Control: CT194 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT195 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT196 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT197 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT198 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT199 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT200 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT201 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT202 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT203 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT204 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT205 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT206 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT207 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT208 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT209 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT210 - Process
Design Capacity: 2,500 gallons per minute

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: CT211 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT212 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT213 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT214 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT215 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT216 - Process
Design Capacity: 2,500 gallons per minute

Emission Source/Control: CT217 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT218 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT219 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT220 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT221 - Process
Design Capacity: 14,500 gallons per minute

Emission Source/Control: CT222 - Process
Design Capacity: 14,500 gallons per minute

Item 155.44:

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

Emission Unit: 2-HPMCU
Process: DT2 Source Classification Code: 4-04-001-21
Process Description: Storage of diesel fuel to support Fab 2 engines.

Emission Source/Control: DT005 - Process
Design Capacity: 25,000 gallons

Emission Source/Control: DT006 - Process
Design Capacity: 25,000 gallons

Emission Source/Control: DT007 - Process
Design Capacity: 25,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: DT008 - Process
Design Capacity: 25,000 gallons

Item 155.45:

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

Emission Unit: 2-HPMCU
Process: FU2 Source Classification Code: 3-13-065-99
Process Description: Fugitive emissions related to Fab 2.

Emission Source/Control: ST147 - Process
Design Capacity: 7,000 gallons

Emission Source/Control: ST148 - Process
Design Capacity: 2,000 gallons

Emission Source/Control: ST149 - Process
Design Capacity: 2,000 gallons

Emission Source/Control: ST150 - Process
Design Capacity: 2,000 gallons

Item 155.46:

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

Emission Unit: 2-HPMCU
Process: HA3 Source Classification Code: 4-07-146-97
Process Description:
Storage of acidic raw materials and waste materials
exhausting to acid gas scrubbers in the HPM2-S building
supporting Fab 2.

Emission Source/Control: AS093 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS094 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS095 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS096 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST082 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST083 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST084 - Process
Design Capacity: 10,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST085 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST086 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST087 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST094 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST095 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST096 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST097 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST102 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST103 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST106 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST107 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST110 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: ST111 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: WS067 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS068 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS069 - Process
Design Capacity: 13,209 gallons

Item 155.47:

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

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 2-HPMCU

Process: HA4

Source Classification Code: 4-07-146-97

Process Description:

Storage of acidic raw materials and waste materials
exhausting to acid gas scrubbers in the HPM2-N building
supporting Fab 2.

Emission Source/Control: AS097 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS098 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS099 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AS100 - Control

Control Type: WET SCRUBBER

Emission Source/Control: ST088 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST089 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST090 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST091 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST092 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST093 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST098 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST099 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST100 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST101 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST104 - Process

Design Capacity: 10,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST105 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST108 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST109 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST112 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: ST113 - Process
Design Capacity: 7,600 gallons

Emission Source/Control: WS070 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS071 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS072 - Process
Design Capacity: 13,209 gallons

Item 155.48:

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

Emission Unit: 2-HPMCU
Process: HB3 Source Classification Code: 4-07-146-97

Process Description:
Storage of basic raw materials exhausting to caustic gas scrubbers in the HPM2-S building supporting Fab 2.

Emission Source/Control: BS041 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS042 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS043 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS044 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST115 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST116 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST117 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 6,500 gallons

Emission Source/Control: ST118 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST123 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST124 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST127 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST128 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST131 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST132 - Process
Design Capacity: 6,500 gallons

Item 155.49:

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

Emission Unit: 2-HPMCU

Process: HB4

Source Classification Code: 4-07-146-97

Process Description:

Storage of basic raw materials exhausting to caustic gas scrubbers in the HPM2-N building supporting Fab 2.

Emission Source/Control: BS045 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS046 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS047 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS048 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST119 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST120 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST121 - Process
Design Capacity: 6,500 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST122 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST125 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST126 - Process
Design Capacity: 5,000 gallons

Emission Source/Control: ST129 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST130 - Process
Design Capacity: 6,500 gallons

Item 155.50:

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

Emission Unit: 2-HPMCU
Process: HS3 Source Classification Code: 4-07-146-97
Process Description:
Storage of solvents in the HPM2-S building supporting Fab 2.

Emission Source/Control: TO081 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: TO082 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: TO083 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: TO084 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: SOD03 - Process

Emission Source/Control: ST135 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST136 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST137 - Process
Design Capacity: 10,000 gallons

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Source/Control: ST138 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST143 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST144 - Process
Design Capacity: 6,500 gallons

Item 155.51:

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

Emission Unit: 2-HPMCU
Process: HS4 Source Classification Code: 4-07-146-97
Process Description:
Storage of solvents in the HPM2-N building supporting Fab 2.

Emission Source/Control: TO085 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: TO086 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: TO087 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: TO088 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR ADSORPTION/ABSORPTION REDUCTION UNIT)

Emission Source/Control: SOD04 - Process

Emission Source/Control: ST139 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST140 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST141 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST142 - Process
Design Capacity: 10,000 gallons

Emission Source/Control: ST145 - Process
Design Capacity: 6,500 gallons

Emission Source/Control: ST146 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 6,500 gallons

Item 155.52:

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

Emission Unit: 2-WWBIO

Process: BG2

Source Classification Code: 4-07-146-97

Process Description:

Biological treatment processes and storage of raw materials supporting Fab 2.

Emission Source/Control: BIO02 - Process

Emission Source/Control: OS003 - Process

Design Capacity: 66,234 cubic feet per minute

Emission Source/Control: OS004 - Process

Design Capacity: 66,234 cubic feet per minute

Emission Source/Control: ST209 - Process

Design Capacity: 18,000 gallons

Emission Source/Control: ST210 - Process

Design Capacity: 6,500 gallons

Emission Source/Control: ST211 - Process

Design Capacity: 6,500 gallons

Item 155.53:

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

Emission Unit: 2-WWBIO

Process: FE2

Source Classification Code: 3-13-065-99

Process Description: Fugitive emissions related to Fab 2.

Emission Source/Control: ST212 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST213 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST214 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: ST215 - Process

Design Capacity: 5,000 gallons

Emission Source/Control: ST216 - Process

Design Capacity: 20,000 gallons

Item 155.54:

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

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 2-WWBIO
 Process: SL2 Source Classification Code: 3-05-016-13
 Process Description: Solid material storage silos supporting Fab 2.

Emission Source/Control: SIL03 - Process
 Design Capacity: 111.4 tons

Emission Source/Control: SIL04 - Process
 Design Capacity: 111.4 tons

Item 155.55:

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

Emission Unit: 2-WWBIO
 Process: WA2 Source Classification Code: 4-07-146-97
 Process Description:
 Wastewater treatment operations and storage of acidic raw
 materials and waste minerals exhausting to acid gas
 scrubbers in the WWT building supporting Fab 2.

Emission Source/Control: AS109 - Control
 Control Type: WET SCRUBBER

Emission Source/Control: AS110 - Control
 Control Type: WET SCRUBBER

Emission Source/Control: AS111 - Control
 Control Type: WET SCRUBBER

Emission Source/Control: AS112 - Control
 Control Type: WET SCRUBBER

Emission Source/Control: ST184 - Process
 Design Capacity: 10,000 gallons

Emission Source/Control: ST185 - Process
 Design Capacity: 10,000 gallons

Emission Source/Control: ST186 - Process
 Design Capacity: 5,000 gallons

Emission Source/Control: ST187 - Process
 Design Capacity: 5,000 gallons

Emission Source/Control: ST188 - Process
 Design Capacity: 16,000 gallons

Emission Source/Control: ST189 - Process
 Design Capacity: 16,000 gallons

Emission Source/Control: ST190 - Process

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Design Capacity: 16,000 gallons

Emission Source/Control: ST191 - Process
Design Capacity: 16,000 gallons

Emission Source/Control: ST192 - Process
Design Capacity: 16,000 gallons

Emission Source/Control: ST193 - Process
Design Capacity: 16,000 gallons

Emission Source/Control: ST194 - Process
Design Capacity: 5,300 gallons

Emission Source/Control: ST195 - Process
Design Capacity: 5,300 gallons

Emission Source/Control: ST196 - Process
Design Capacity: 2,600 gallons

Emission Source/Control: ST197 - Process
Design Capacity: 2,600 gallons

Emission Source/Control: ST198 - Process
Design Capacity: 15,000 gallons

Emission Source/Control: ST199 - Process
Design Capacity: 15,000 gallons

Emission Source/Control: ST200 - Process
Design Capacity: 16,500 gallons

Emission Source/Control: ST201 - Process
Design Capacity: 16,500 gallons

Emission Source/Control: WLB02 - Process

Emission Source/Control: WS093 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS094 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS095 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS096 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS097 - Process
Design Capacity: 13,209 gallons

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Facility DEC ID: 7312400575

Emission Source/Control: WS098 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS099 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS100 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS101 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS102 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS103 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS104 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS105 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS106 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS107 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS108 - Process
Design Capacity: 2,642 gallons

Emission Source/Control: WS109 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS110 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS111 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WS112 - Process
Design Capacity: 13,209 gallons

Emission Source/Control: WWT02 - Process

Item 155.56:

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

Emission Unit: 2-WWBIO
Process: WB2

Source Classification Code: 4-07-146-97

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Process Description:

Wastewater treatment operations and storage of basic raw materials exhausting to caustic gas scrubbers in the WWT building supporting Fab 2.

Emission Source/Control: BS052 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS053 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BS054 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ST202 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST203 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST204 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST205 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST206 - Process
Design Capacity: 21,000 gallons

Emission Source/Control: ST207 - Process
Design Capacity: 8,000 gallons

Emission Source/Control: ST208 - Process
Design Capacity: 8,000 gallons

Emission Source/Control: WLB02 - Process

Emission Source/Control: WWT02 - Process

Item 155.57:

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

Emission Unit: 2-WWBIO

Process: WS2

Source Classification Code: 4-07-146-97

Process Description:

Wastewater treatment operations and storage of solvents exhausting to rotor-concentrator thermal oxidizers in the WWT building supporting Fab 2.

Emission Source/Control: TO092 - Control
Control Type: THERMAL OXIDATION

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Facility DEC ID: 7312400575

Emission Source/Control: TO093 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: TO094 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: WLB02 - Process

Emission Source/Control: WWT02 - Process

Condition 156: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.988, Subpart SS

Item 156.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-ADMPR
Process: AA1

Emission Unit: 1-ADMPR
Process: AS1

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 2-ADMPR
Process: AA2

Permit ID: 7-3124-00575/00004

Facility DEC ID: 7312400575

Emission Unit: 2-ADMPR
Process: AS2

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA2

Emission Unit: 2-HPMCU
Process: HB2

Emission Unit: 2-HPMCU
Process: HS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 156.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner/operator is using incinerators, boilers, or process heaters to meet a weight-percent emission reduction or parts per million by volume outlet concentration requirement specified in a referencing subpart, the incinerators, boilers, or process heaters shall be operated at all times when emission are vented to them and for boilers and process heaters, the vent stream shall be introduced into the flame zone.

Unless a previous performance test is adequate or a waiver is granted as per §63.997(b), the owner/operator shall conduct an initial performance test of any incinerator, boiler, or process heater according to the procedures in §63.997. performance test records shall be kept as specified in §63.998(a)(2) and a performance test report shall be submitted as specified in §63.999(a)(2). As provided in §63.985(b)(1), a design evaluation may be used

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as an alternative to the performance test for storage vessels and low throughput transfer rack controls. If any of the control devices specified in §63.988(b)(2) are used, a performance test is not required.

A temperature monitoring device capable of providing a continuous record that meets the provisions specified below is required. Any boiler or process heater in which all vent streams are introduced with primary fuel or are used as the primary fuel is exempt from monitoring. Monitoring results shall be recorded as specified in §63.998(b) and (c), as applicable. General requirements for monitoring and continuous parameter monitoring systems are contained in the referencing subpart and §63.996.

- Where an incinerator other than a catalytic incinerator is used, a temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.
- Where a catalytic incinerator is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.
- Where a boiler or process heater of less than 44 megawatts (150 million BTU/hr) design heat input capacity is used and the regulated vent stream is not introduced as or with the primary fuel, a temperature monitoring device shall be installed in the firebox.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 157: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.997, Subpart SS

Item 157.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

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Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU

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Process: HA4

Emission Unit: 2-HPMCU
Process: HB2

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS2

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 157.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Unless a waiver of performance testing is obtained under §63.997 or the referencing subpart, the owner/operator shall perform such tests as specified in §63.997(c)(1)(i) through (vii). This gives the owner/operator 180 days after the compliance date in a referencing subpart for an existing source or 180 days after startup for a new source.

Where a performance test is required in Subpart SS, the owner/operator shall comply with the following requirements, as applicable:

- For continuous unit operations, performance tests shall be conducted at maximum representative operating conditions for the process unless otherwise specified or approved by the NYSDEC

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- For a combination of both continuous and batch unit operations, performance tests shall be conducted at maximum representative operating conditions. For the purpose of conducting a performance test on a combined vent stream, maximum representative operating conditions shall be when batch emissions episodes are occurring that result in the highest organic HAP emission rate for the combined vent stream that is achievable during the 6-month period that begins 3 months before and ends 3 months after the compliance assessment without causing damage to the equipment, necessitating that the owner/operator make product that does not meet an existing specification for sale to a customer, or necessitating that the owner/operator make product in excess of demand.
- The following procedures shall be conducted:
 - 1) Method 1 or 1A of 40CFR60, appendix A, as appropriate, shall be used for selection of sampling sites,
 - 2) Method 2, 2A, 2C, 2D, 2F, or 2G of 40CFR60, appendix A, as appropriate, shall be used to determine the gas volumetric flowrate,
 - 3) Method 18 of 40CFR60, appendix A, shall be used to measure either TOC minus methane and ethane or total organic regulated material, as applicable. Alternatively, any other method or data that have been validated according to the applicable procedures in Method 301 of appendix A of 40CFR63 may be used. Method 25A of 40CFR60, appendix A may be used for transfer racks as detailed in §63.997(e)(2)(iii)(D).
 - 4) The procedures specified in §63.997(e)(2)(iv)(A)-(E) shall be used in addition to Method 18 of 40CFR60, appendix A, to determine the percent reduction efficiency.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 158: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.983(b), Subpart SS

Item 158.1:

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

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

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Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU

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Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 158.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each closed vent system shall be inspected as follows:

- If the system is constructed of hard-piping, the owner/operator shall conduct an initial inspection according to the procedures listed in §63.983(c) and conduct annual visual inspections for visual, audible, or olfactory indications of leaks
- If the system is constructed of ductwork, the owner/operator shall conduct an initial and annual inspection according to the procedures listed in §63.983(c)

Any parts of the closed vent system that are designated as unsafe to inspect are exempt from the inspection requirements of this condition if the following conditions are met:

- the owner/operator determines that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a

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consequence of complying with this condition, and

- There is a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times. Inspection is not required more than once annually.

Any parts of the closed vent system that are designated as difficult-to-inspect are exempt from this condition if the following provisions are met:

- The owner/operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 7 feet above a support surface, and
- There is a written plan that required inspection of the equipment at least once every 5 years.

For each bypass line, if a flow indicator is used, a reading shall be taken at least once every 15 minutes. If the bypass line valve is secured in the non-diverting position, visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line.

Reference Test Method: EPA method 21

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 159: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.983(d), Subpart SS

Item 159.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

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Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

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Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO
Process: WS2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 159.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required in §63.983(b)(1)(i)(B), the owner/operator shall eliminate the leak and monitor the equipment according to the procedures in §63.983(c).

Leaks, as indicated by an instrument reading greater than 500 ppmv above background or by visual inspections, shall be repaired as soon as practical, except as provided in the delay of repair provisions below. Records shall be generated as specified in §63.998(d)(1)(iii) when a leak is detected. A first attempt at repair shall be made no later than five days after the leak is detected. Except as provided in the delay of repair provisions below, repairs shall be completed no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later.

Delay of repair of a closed vent system for which leaks have been detected is allowed if repair within 15 days after the leak is detected is technically infeasible or unsafe without a closed vent system shutdown, as defined

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in §63.981, or if the owner/operator determines that emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed as soon as practical, but not later than the end of the next closed vent system shutdown.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 160: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.996, Subpart SS

Item 160.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FB1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 1-FABOP
Process: FG1

Emission Unit: 1-FABOP
Process: FS1

Emission Unit: 1-HPMCU
Process: HA1

Emission Unit: 1-HPMCU
Process: HA2

Emission Unit: 1-HPMCU
Process: HB1

Emission Unit: 1-HPMCU
Process: HB2

Emission Unit: 1-HPMCU
Process: HS1

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Emission Unit: 1-HPMCU
Process: HS2

Emission Unit: 1-WWBIO
Process: WA1

Emission Unit: 1-WWBIO
Process: WB1

Emission Unit: 1-WWBIO
Process: WS1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FB2

Emission Unit: 2-FABOP
Process: FC2

Emission Unit: 2-FABOP
Process: FG2

Emission Unit: 2-FABOP
Process: FS2

Emission Unit: 2-HPMCU
Process: HA3

Emission Unit: 2-HPMCU
Process: HA4

Emission Unit: 2-HPMCU
Process: HB3

Emission Unit: 2-HPMCU
Process: HB4

Emission Unit: 2-HPMCU
Process: HS3

Emission Unit: 2-HPMCU
Process: HS4

Emission Unit: 2-WWBIO
Process: WA2

Emission Unit: 2-WWBIO
Process: WB2

Emission Unit: 2-WWBIO

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Facility DEC ID: 7312400575

Process: WS2

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 160.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All monitoring equipment shall be installed, maintained, calibrated, and operated according to manufacturer's specifications or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.

The owner/operator of a regulated source shall maintain and operate each continuous parameter monitoring system (CPMS) as specified in any applicable subpart and in a manner consistent with good air pollution control practices. Routine or predictable malfunctions shall be repaired immediately and all necessary parts for routine repairs shall be readily available. All actions taken when the startup, shutdown, and malfunction plan are followed and the CPMS is repaired immediately shall be recorded as required in §63.998(c)(1)(ii)(E).

All CPMS's shall be installed and operational, and the data verified as specified in Subpart SS either prior to or in conjunction with conducting performance tests. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.

All CPMS's shall be installed such that representative measurements of parameters from the regulated source are obtained. CPMS's shall also be operated continuously at all times except during system breakdowns, maintenance periods, instrument adjustments, or checks to maintain precision and accuracy, calibration checks, and zero and span adjustments.

For each CPMS, the owner/operator must complete a minimum of one cycle of operation for each successive 15-minute period, calculate a valid hourly average (there must be at least four equally spaced values for that hour, excluding data collected during breakdowns, maintenance periods, etc.), and calculate a daily average using all of the

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valid hourly averages for each day.

For each temperature monitoring device, the owner/operator shall meet the requirements listed in §63.996(c)(8)(i) through (viii), as applicable.

For each pressure monitoring device, the owner/operator shall meet the requirements listed in §63.996(c)(9)(i) through (vii), as applicable.

For each pH monitoring device, the owner/operator shall meet the requirements listed in §63.996(c)(10)(i) through (iv), as applicable.

The owner/operator shall establish a range for monitored parameters that indicates proper operation of the control or recovery device. The information required in §63.999(b)(3) shall be submitted with the Notification of Compliance Status report or in the operating permit application or amendment. The range may be based on a prior performance test meeting the specifications of §63.997(b)(1) or a prior TRE index value determination, as applicable, or upon existing ranges or limits established under a referencing subpart.

Flares that are subject to §63.987(c) and flow indicators are not subject to this condition.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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STATE ONLY ENFORCEABLE CONDITIONS****** Facility Level ********NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

Item B: 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

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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 applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 161: Contaminant List
Effective for entire length of Permit

Applicable State Requirement: ECL 19-0301

Item 161.1:

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

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 000074-86-2
Name: ACETYLENE

CAS No: 000373-68-2
Name: TETRAMETHYLAMMONIUM FLUORIDE TETRAHYDRATE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 001341-49-7
Name: AMMONIUM BIFLUORIDE (NH₄)(HF₂)

CAS No: 003458-72-8
Name: TRIAMMONIUM CITRATE

CAS No: 007664-39-3

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Name: HYDROGEN FLUORIDE

CAS No: 007664-41-7

Name: AMMONIA

CAS No: 007782-41-4

Name: FLUORINE

CAS No: 007783-06-4

Name: HYDROGEN SULFIDE

CAS No: 007783-82-6

Name: TUNGSTEN HEXAFLUORIDE

CAS No: 007784-42-1

Name: ARSINE

CAS No: 007790-91-2

Name: CHLORINE FLUORIDE CLF3

CAS No: 010024-97-2

Name: NITROUS OXIDE

CAS No: 012125-01-8

Name: AMMONIUM FLUORIDE

CAS No: 020654-88-0

Name: [11B]BORON TRIFLUORIDE

CAS No: 062566-74-9

Name: GERMANIUM TETRAFLUORIDE

CAS No: 068188-85-2

Name: FLUORIDES

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

CAS No: 0NY075-02-5

Name: PM-2.5

CAS No: 0NY100-00-0

Name: TOTAL HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY514-00-0

Name: ORGANIC HAPS

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CAS No: 0NY515-00-0
Name: INORGANIC HAPS

CAS No: 0NY750-00-0
Name: CARBON DIOXIDE EQUIVALENTS

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

Condition 162: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 201-1.4

Item 162.1:

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

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

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

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

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Condition 163: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 201-6.5 (a)

Item 163.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 163.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The CLCPA analysis dated October 30, 2025 indicates that the facility owner or operator will install solar photovoltaic panels on non-fab buildings, which at full buildout of the four-fab facility will amount to 4 megawatts. The facility owner or operator will also install at least 60 electric vehicle (EV) charging stations per fab at the facility.

Within 365 days of the issuance of this permit, the facility owner or operator shall submit an implementation schedule to the Department for approval detailing the installation of solar photovoltaic panels and EV charging stations associated with fabs 1 and 2 (Implementation Schedule). The Implementation Schedule shall include the number and timing of EV charging stations to be installed. The facility owner or operator may amend this Implementation Schedule to account for ongoing design and construction changes, subject to the approval of the Department.

The facility owner or operator shall install the mitigation measures in accordance with the approved Implementation Schedule and shall ensure that they are operated and maintained per manufacturer's instructions.

Failure to provide an approvable Implementation Schedule by the deadline, to implement the approved Implementation Schedule by the dates set forth therein, or to install, operate, and maintain the mitigation measures discussed above shall be grounds for enforcement action and/or the suspension or revocation of this permit as described in 6 NYCRR Section 201-1.12 and 6 NYCRR Section 621.13.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 164: Air pollution prohibited
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 211.1**Item 164.1:**

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

Condition 165: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 212-2.1 (a)**Item 165.1:**

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

Emission Unit: 1-FABOP
Process: FA1

Emission Unit: 1-FABOP
Process: FC1

Emission Unit: 2-FABOP
Process: FA2

Emission Unit: 2-FABOP
Process: FC2

Regulated Contaminant(s):
CAS No: 000050-00-0 FORMALDEHYDE

Item 165.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Processes FA1, FA2, FC1, and FC2 emit Formaldehyde, which is a high toxicity air contaminants (HTACs) and has been assigned an Environmental Rating of “A” by the Department.

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In accordance with Part 212-2.1(a), the facility owner or operator has demonstrated that actual annual process emissions of formaldehyde are less than the mass emission limit (MEL) of 100 pounds per year shown under Table 2 of Part 212-2.2 and thus are in compliance with Part 212. Continuous compliance with the MEL is met through calculating actual emissions using methodologies consistent with those used in the most recent permitting action approved by the Department.

The facility owner or operator must maintain annual emission calculations sufficient to demonstrate that annual emissions did not exceed the MEL. Such emission calculations must be maintained by the facility owner or operator for a period of at least five years and made available to the Department upon request.

If 12-month rolling total formaldehyde process emissions exceed, or are anticipated to exceed the MEL, the facility must submit documentation to the Department within 30 days demonstrating that the maximum offsite ambient air concentration is less than the DAR-1 guideline concentrations or submit a modification application to the Department within 30 days to install add-on control meeting the degree of air cleaning specified in Table 4 to 6 NYCRR 212-2.3(b). Compliance with the DAR-1 guideline concentrations must be documented in a Toxic Impact Assessment prepared in accordance with the procedures in DAR-1.

Parameter Monitored: FORMALDEHYDE

Upper Permit Limit: 100 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 166: Compliance Demonstration
Effective for entire length of Permit

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

Item 166.1:

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

Emission Unit: 1-FABOP

Process: FA1

Emission Unit: 1-FABOP

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Process: FC1

Emission Unit: 2-FABOP

Process: FA2

Emission Unit: 2-FABOP

Process: FC2

Regulated Contaminant(s):

CAS No: 007784-42-1 ARSINE

Item 166.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Processes FA1, FA2, FC1, and FC2 emit Arsine, which is a high toxicity air contaminants (HTACs) and has been assigned an Environmental Rating of “A” by the Department.

In accordance with Part 212-2.1(a), the facility owner or operator has demonstrated that actual annual process emissions of arsine are less than the mass emission limit (MEL) of 10 pounds per year shown under Table 2 of Part 212-2.2 and thus are in compliance with Part 212. Continuous compliance with the MEL is met through calculating actual emissions using methodologies consistent with those used in the most recent permitting action approved by the Department.

The facility owner or operator must maintain annual emission calculations sufficient to demonstrate that annual emissions did not exceed the MEL. Such emission calculations must be maintained by the facility owner or operator for a period of at least five years and made available to the Department upon request.

If 12-month rolling total arsine process emissions exceed, or are anticipated to exceed the MEL, the facility must submit documentation to the Department within 30 days demonstrating that the maximum offsite ambient air concentration is less than the DAR-1 guideline concentrations or submit a modification application to the Department within 30 days to install add-on control meeting the degree of air cleaning specified in Table 4 to 6 NYCRR 212-2.3(b). Compliance with the DAR-1 guideline concentrations must be documented in a Toxic Impact Assessment prepared in accordance with the procedures in DAR-1.

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Parameter Monitored: ARSINE

Upper Permit Limit: 10 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 167: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 257-4.2

Item 167.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 001341-49-7	AMMONIUM BIFLUORIDE (NH ₄)(HF ₂)
CAS No: 007782-41-4	FLUORINE
CAS No: 007783-82-6	TUNGSTEN HEXAFLUORIDE
CAS No: 007790-91-2	CHLORINE FLUORIDE CLF ₃
CAS No: 012125-01-8	AMMONIUM FLUORIDE
CAS No: 000373-68-2	TETRAMETHYLAMMONIUM FLUORIDE TETRAHYDRATE
CAS No: 062566-74-9	GERMANIUM TETRAFLUORIDE
CAS No: 020654-88-0	[11B]BORON TRIFLUORIDE
CAS No: 007664-39-3	HYDROGEN FLUORIDE

Item 167.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator is required to comply with the ambient air quality standard for fluorides. The term fluorides refers to a heterogeneous group of compounds formed from the highly reactive, nonmetallic gaseous element known as fluorine. For the purpose of this condition, the term fluoride will include material that tests as fluoride by methods acceptable to the Department.

At the time of permit issuance, the facility is demonstrating compliance with this standard through air dispersion modeling. In the event that the facility is requested by the Department to revise its analysis or undergoes a change that would be expected to impact the results of a previous determination, revised air dispersion modeling must be completed to demonstrate compliance with the below standards:

Total fluorides, parts per million (ppm), dry weight basis

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(as fluorine) in and on forage for consumption by grazing ruminants. Average concentration shall be less than the following in all levels:

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 168: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 257-5.3

Item 168.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007783-06-4 HYDROGEN SULFIDE

Item 168.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator is required to comply with the ambient air quality standard for hydrogen sulfide.

At the time of permit issuance, the facility is demonstrating compliance with this standard through dispersion modeling. In the event that the facility is requested by the Department to revise its analysis or undergoes a change that would be expected to impact the

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results of a previous determination, revised air dispersion modeling must be completed to demonstrate compliance with the below standard:

Applicable in all levels. In any one-hour period, the average concentration of hydrogen sulfide shall not exceed 0.010 ppm (14 ug/m³).

As per 6 NYCRR 257-5.4(b), all measurements are corrected to a reference temperature of 25 degrees Centigrade and to a reference pressure of 760 millimeters of mercury.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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