

Facility DEC ID: 3132800025

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 3-1328-00025/01028
Effective Date: 11/28/2023 Expiration Date: 11/27/2028

Permit Issued To: Semiconductor Components Industries LLC
Hudson Valley Research Park
2070 ST RTE 52
Hopewell Junction, NY 12533

HUDSON VALLEY RESEARCH PARK SEWAGE WORKS CORPORATION
2070 RTE 52
HOPEWELL JUNCTION, NY 12533

Facility: OnSemi East Fishkill Facility
2070 ST RTE 52 | HUDSON VALLEY RESEARCH PARK
HOPEWELL JUNCTION, NY 12533

Contact: LISA SCHAEFER
2070 RTE 52 BLDG 325
HOPEWELL JUNCTION, NY 12533
(845) 894-4312

Description:

OnSemi East Fishkill facility, formerly known as GlobalFoundries East Fishkill is engaged in the development and manufacture of semiconductors for the computer and electronic industries. The emissions of Volatile Organic Compounds (VOCs) and CO₂e (including equivalents) are above major source thresholds as defined by the Federal Clean Air Act and therefore the facility is required to obtain a Title V permit.

Emission Unit A-00001 consists of seven (7) 72 mmBtu/hr natural gas fired boilers with low NO_x burners. Six of the boilers can use #6 fuel oil as a backup fuel source.

All tanks at the facility are exempt from 6 NYCRR 229 requirements pursuant to 6 NYCRR 229.1 (f)(4) (horizontal petroleum or volatile organic liquid storage tanks). The vertical tanks have conservation vents and are pressurized with nitrogen to prevent emissions of volatile organic compounds to the outside atmosphere. The nitrogen pressure system is monitored periodically to ensure the system is working properly.

The manufacturing portion of the facility emission units I-00001, process 0WF (water fabrication) and K-00001 process C4P (controlled collapse chip

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connection plating) are subject to 6 NYCRR 212-1 and 6 NYCRR 212-2. Dispersion modeling and control practices are included with this Title V renewal application.

The manufacturing portion of the facility is subject to 6 NYCRR Part 212-3 RACT regulation. Five Eisenmann Regenerative Thermal Oxidizers (RTO) are used for the destruction of emissions from process 0WF which are located in Building 323 and Building 323A. Two Munters Concentrator Thermal Oxidizer (CTO), are used for the destruction of VOC emissions from emission unit K-00001 (C4P). All RTOs and CTOs have continuous monitors and data recorders to document combustion and exhaust temperatures. The continuous monitors must be operated at all times when associated process equipment is operating except during any quality assurance, routine maintenance, or RTO and CTO system malfunction. Each monitor must be operated according to a quality assurance program approved by the Department.

The facility is subject to 40 CFR 63 Subpart WWWW - National Emission Standards for Hazardous Air Pollutants: Area Sources Standards for Plating and Polishing Operations.

The facility is subject to 40 CFR 98 Mandatory Greenhouse Gas Reporting. All sources of per fluorinated gases (F-gases) are equipped with point-of-use (POU) abatement. These POU abatement devices are maintained and operated per manufacturer specifications to destroy F-gases.

The facility is subject to 40 CFR 82(F) refrigerant management.

The facility is subject to 40 CFR 63 Subpart JJJJJ with the boilers to be tuned biennially when firing oil.

Emergency generators are subject to EPA reciprocating internal combustion engines (RICE) rule and each emergency generator can only operate up to 100 hours per year.

The OnSemi East Fishkill facility is no longer subject to NO_x RACT following the implementation of a fuel cap.

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

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Special Conditions included as part of this permit.

Permit Administrator: REBECCA S CRIST
21 S PUTT CORNERS RD
NEW PALTZ, NY 12561

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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- 7 5 Submission of application for permit modification or renewal
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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: Submission of application for permit modification or renewal -REGION 3
HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 3 Headquarters
Division of Environmental Permits
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3054

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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Authorized Activity By Standard Industrial Classification Code:
3471 - ELECTROPLATING, POLISHING, ANODIZING, AND COLORING
3674 - SEMICONDUCTORS & RELATED DEVICES
3679 - ELECTRONIC COMPONENTS, NEC

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- 56 55 40CFR 63.11223(b), Subpart JJJJJ: Compliance Certification
- 58 56 40CFR 63.11507(g), Subpart WWWW: Compliance Certification
- 59 57 40CFR 63, Subpart ZZZZ: Applicability
- 60 58 40 CFR Part 98: Mandatory greenhouse gas reporting
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- 60 59 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 64 60 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 69 61 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

EU=A-00001

- 70 62 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification

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- 74 64 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 75 65 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 75 66 6 NYCRR 211.1: Air pollution prohibited
- 76 67 6 NYCRR 212-2.1 (a): Compliance Demonstration
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NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 4/FINAL

**** 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 between the dates of 11/28/2023 and 11/27/2028**

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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reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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.
- (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,

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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 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

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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.
The initial report is due 1/30/2024.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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;
 - 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 record keeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as

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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
21 South Putt Corners Road
New Paltz, NY 12561-1696

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance

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- (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 between the dates of 11/28/2023 and 11/27/2028**

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 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

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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 between the dates of 11/28/2023 and 11/27/2028

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 between the dates of 11/28/2023 and 11/27/2028

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 between the dates of 11/28/2023 and 11/27/2028

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 between the dates of 11/28/2023 and 11/27/2028

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

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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 between the dates of 11/28/2023 and 11/27/2028

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: Accidental release provisions.
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 40 CFR Part 68

Item 16.1:

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:

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

Condition 17: Recycling and Emissions Reduction
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:40CFR 82, Subpart F

Item 17.1:

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

Condition 18: Recycling and Emissions Reduction
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:40CFR 82, Subpart F

Item 18.1:

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVAC's in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR Part 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR Part 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR Part 82.161.
- d. Persons disposing of small appliances, MVAC's, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR Part 82.166. ("MVAC-like appliance as defined at 40 CFR Part 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR Part 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82.166.

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

Condition 19: Emission Unit Definition

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Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 19.1:

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

Emission Unit: A-00001

Emission Unit Description:

This emission unit consists of seven (7) 72 MMBtu/hr natural gas fired boilers (with No. 6 fuel backup for six of the seven boilers). Exempt combustion equipment onsite includes four boilers, four fire pumps, and seventeen generators.

Building(s): B/315

Item 19.2:

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

Emission Unit: B-00001

Emission Unit Description:

This emission unit consist of chemical packaging, storage tanks, hazardous waste storage and the Chemical Distribution Center.

Building(s): B/300
 B/316
 B/317
 B/325
 B/384
 B/386

Item 19.3:

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

Emission Unit: I-00001

Emission Unit Description:

This emission unit consists of wafer fabrication in B/323 and B/323A. Building 323 consists of three Regenerative Thermal Oxidizers, five Acid Scrubbers, and four Base Scrubbers. Building 323A consists of two Regenerative Thermal Oxidizer units, three Acid Scrubbers and four Base Scrubbers.

Building(s): B/323
 B/323A

Item 19.4:

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

Emission Unit: K-00001

Emission Unit Description:

This emission unit consists of controlled collapse chip connection (C4) plating operations, Research & Development (R&D) with manufacturing / production, and Post

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Fabrication. B/320 (C4) and Post Fab includes 2 Concentrator Thermal Oxidizers, three (3) Acid Scrubbers, and two (2) Base Scrubbers.

Building(s): B/320B

Condition 20: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 20.1:

The Compliance Certification activity will be performed for the Facility.

Item 20.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner and/or operator shall maintain a current record of all of the emission units, points, processes, and source/controls on site. This list shall be submitted to the Department during permit renewals and modifications or upon request. All records used to determine compliance with the applicable limit(s) must be kept 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 21: Progress Reports Due Semiannually
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 21.1:

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
- (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 22: Operational Flexibility
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 22.1:

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 23: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028**

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

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:

Operational Flexibility Plan

I. Protocol Objective

The objective of this condition is to maximize operational flexibility at the facility by building into the Title V permit the capability to make certain changes using a protocol. As provided under 6 NYCRR Part 201-6.4(f)(2), changes made under an approved protocol are not subject to the Title V permit modification provisions under 6 NYCRR Part 201-6.6.

II. Protocol

A. Criteria

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

- a. All underlying federal and state requirements with which the new or changed emission source must comply must exist in the Title V permit. Existing permit conditions may be amended to reference or include the new or changed emission source and any related information, and/or subject to DEC approval, new conditions proposed, to

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provide the appropriate monitoring parameters.

b. Any new or changed emission source shall not be part of a source project that results in a significant net emissions increase that exceeds the New Source Review (NSR) thresholds identified in 6 NYCRR Part 231.

c. The facility 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 cap either to avoid major NSR requirements or to address and comply with other Clean Air Act requirements, such as RACT. Such changes must be addressed via the significant permit modification provisions.

B. Notification Requirements for Changes Reviewed under the Protocol

1. The facility shall notify the Department in writing of the proposed change.

2. Notifications made in accordance with this protocol will include the following documentation:

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

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

c. Identification and description of emissions control technology;

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

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

ii. Submit documentation of major NSR program non-applicability for NYSDEC review and approval.

iii. Identify and evaluate the applicability of all regulations likely to be triggered by the new or changed emission source.

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iv. Propose any operating and record keeping procedures necessary to ensure compliance.

e. 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 permittee in writing with a determination within 15 days of receipt of the notification of the permittee.

2. The Department may require a permit modification, in order to impose new applicable requirements or additional permit conditions if it determines that changes proposed pursuant to notification do not meet the criteria under II. A above or that the changes may have a significant air quality impact or be otherwise potentially significant under SEQRA (6 NYCRR Part 617).

3. The Department may require that the permittee not undertake the proposed change until it completes a more detailed review of the proposed change, which may include potential air quality impacts and/or applicable requirements. The Department's determination shall include a listing of information required for further review, if necessary.

D. Additional Compliance Obligations for Changes Made Under this Protocol

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

2. The facility shall provide with the semi-annual monitoring report, a summary of the changes made in accordance with this protocol and a statement of the compliance status of each. Changes reported should include all those made during the corresponding period and any earlier changes that have not yet been incorporated into the permit.

OnSemi is anticipating the need to perform 6NYCRR part 212, (DAR-1) dispersion modeling to support the changes it expects to make relative to the Operational Flexibility condition. As required by B.2 above OnSemi will be providing an emission table by analyte for the facility as part of each notification to be made under the Operational Flexibility condition. To meet item B.2 e dispersion

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modeling will also be included, (when required) with the notification of the proposed change.

All records used to determine compliance with the applicable limit(s) must be kept 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 24: Facility Permissible Emissions
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 24.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY210-00-0

PTE: 190,000 pounds per year

Name: OXIDES OF NITROGEN

Condition 25: Capping Monitoring Condition
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 25.1:

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

6 NYCRR 201-6.1

6 NYCRR Subpart 227-2

Item 25.2:

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

Item 25.3:

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

Item 25.4:

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

Item 25.5:

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

Item 25.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 25.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

OnSemi must comply with the annual Oxides of Nitrogen (NOx) emissions cap of 95 tons per year to become a minor source for NOx. OnSemi shall monitor the monthly quantities of fuel burned by each combustion source and the building 323 (B323) Nitric Oxide usage in the fabrication process. To calculate the facility-wide NOx emissions, the following formula shall be used:

$$\{N(32) + N1(100) + F6(55) + F2(20) + G1(3.2) + G2(4.41)\} + U < 190,000 \text{ lbs/yr NOx emission.}$$

Where:

N= natural gas used in boilers (EU: A-00001) controlled with low NOx burners and flue gas recirculation in MMSCF/yr
32 lb/MMSCF - AP-42 Table 1.4-1 NOx emission factor;

N1 = natural gas usage for point-of-use (POU) gas abatement, thermal oxidizers control, and exempt boiler (B325) in MMSCF/yr
100 lb/MMSCF - AP-42 Table 1.4-1 NOx emission factor;

F6 = fuel oil #6 used in boilers (EU: A-00001) in 10³gals/yr
55 lb/10³ gal - AP-42 Table 1.3-1 NOx emission

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factor;

F2 = fuel oil #2 used in exempt boilers (B304) in
 10^3 gals/yr
 20 lb/ 10^3 gal - AP-42 Table 1.3-1 NOx emission
 factor;

G1 = 14 large exempt emergency generators; emission based
 on engines total MMBTU/hr
 3.2 lb/MMBTU - AP-42 Table 3.4-1 NOx emission
 factor;

G2 = 3 small exempt emergency generators; emission based
 on engines total MMBTU/hr
 4.41 lb/MMBTU - AP-42, Table 3.3-1 NOx emission factor;

(emergency generators limited to 100 hrs/yr)

U = lb/yr of Nitric Oxide used in B323.

All records used to determine compliance with the
 applicable limit(s) must be kept at the facility (or other
 Department approved location) for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 95 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 26: Required Emissions Tests - Facility Level
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 26.1:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 27: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR 202-2.1 (c)

Item 27.1:

The Compliance Certification activity will be performed for the Facility.

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Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Electronic submittal of emission statements will become mandatory and will be included as an enforceable condition in new or renewed Title V permits issued after January 1, 2021. The first reporting year under this provision will be the reporting year in which the permit was issued or reporting year 2025 (emission statements due in 2026), whichever is earlier.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

**Condition 28: Statement dates for emissions statements.
Effective between the dates of 11/28/2023 and 11/27/2028**

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

Item 28.1:

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:

- (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 29: Visible Emissions Limited
Effective between the dates of 11/28/2023 and 11/27/2028**

Applicable Federal Requirement:6 NYCRR 211.2

Item 29.1:

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.

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Condition 30: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

Process: 0WF

Emission Unit: K-00001

Process: C4P

Item 30.2:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 31: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 31.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

Process: 0WF

Emission Source: SOLV1

Emission Unit: I-00001

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Process: 0WF	Emission Source: SOLV2
Emission Unit: I-00001	
Process: 0WF	Emission Source: VRTO1
Emission Unit: I-00001	
Process: 0WF	Emission Source: VRTO2
Emission Unit: I-00001	
Process: 0WF	Emission Source: VRTO3
Emission Unit: K-00001	
Process: C4P	Emission Source: BCONC
Emission Unit: K-00001	
Process: C4P	Emission Source: BOXID
Emission Unit: K-00001	
Process: C4P	Emission Source: CONC1
Emission Unit: K-00001	
Process: C4P	Emission Source: OXID1

Item 31.2:

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. Continuous monitors must be operated at all times when the associated process equipment is operating except during any quality assurance and routine maintenance activities. Each monitor must be operated according to a quality assurance program previously approved by the Department. The facility shall maintain an up to date copy of the quality assurance program available to the department upon request.

Thermal Oxidizers shall be energy efficient and operated in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards, and procedures, inclusive of manufacturer's specifications. The Department reserves the right to require OnSemi to conduct future performance testing to verify VOC capture and control efficiencies.

OnSemi shall keep record of the date, time and duration of all periods the Thermal Oxidizers were not in operation during the normal operations of the equipment that it controls including startup/shutdown, malfunction or curtailment. These downtime events shall be reported to

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the Department semiannually. Malfunction/maintenance events over 4 days shall require written notification to the Department within 30 days of repair/completion of maintenance. These notifications shall describe the date, time, duration, cause, corrective action and summary of emissions related to production activity during the downtime event.

All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2024.
 Subsequent reports are due every 6 calendar month(s).

Condition 32: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 32.1:

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

Emission Unit: I-00001 Process: 0WF	Emission Point: 00ACD
Emission Unit: I-00001 Process: 0WF	Emission Point: 01ACD
Emission Unit: I-00001 Process: 0WF	Emission Point: 02ACD
Emission Unit: I-00001 Process: 0WF	Emission Point: 03ACD
Emission Unit: I-00001 Process: 0WF	Emission Point: 04ACD
Regulated Contaminant(s): CAS No: 007664-39-3	HYDROGEN FLUORIDE

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For any air contaminant not listed on Table 2, unless it

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is a solid particulate described in subdivision (c) of this Section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(a), Table 3 – Degree of Air Cleaning Required for Criteria Air Contaminants, or Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants. HF has been assigned an Environmental Rating of A and is controlled by 8 Acid Scrubbers (ES-ACIDA, ACIDB, ACIDC, ACIDD, ACIDE, ACID1, ACID2, 3ACID), 5 located in Building 323 and 3 in building 323 Annex. The 5 Acid scrubbers in building 323 outlets are manifolded together and discharged into two stacks (EPs 00ACD, 01ACD). Building 323 Annex acid system is made up of a single manifolded inlet into 3 scrubbers and 3 separate discharge stacks (EPs 02ACD, 03ACD, 04ACD).

Current Emission Rate Potential (ERP) for HF from building 323 annex input scrubbers is less than 0.1 pound per hour. However, it is anticipated that the ERP could increase above 0.1 lb/hr but remain below 1 lb/hr which would require OnSemi to meet Table 4 at 90% degree of air cleaning. At the current ERP, OnSemi is required to meet the short term and annual guideline concentration (SGC/AGC) at the fence line of the facility. The facility performed refined AERMOD modeling demonstrating compliance with the respective SGC but not with the AGC. The modeling was approved by the Department.

ERP for HF from building 323 inlets are greater than 1 lbs/hr but less than 10 lbs/hr and based on Table 4 must achieve a degree of air cleaning of 99%. In accordance with §212-1.5(d), The facility provided a Toxic-Best Available Control Technology (T-BACT) assessment of the achievable degree of air cleaning reduction. The assessment was based on the Maximum Available Control Technology (MACT) derived from 40 CFR Part 63, Subpart BBBBB - National Emission Standards for Hazardous Air Pollutants (HAP) for Semiconductor Manufacturing. Subpart BBBBB is applicable to major source of HAP and the MACT was established as 95% control of inorganic HAP emissions from process vent stream or the concentration of emitted inorganic HAP from the process vent to less than or equal to 0.42 ppmv. OnSemi is a not major source for HAP, however, it was able to demonstrate 98% emission reduction from building 323 discharges and concentrations less than 0.42 ppmv based on stack testing data. For the 323 annex, the facility demonstrated it met the 0.42 ppmv even with mass loading less than 0.1 lb/hr.

OnSemi is required to meet the emission limit for HF equal to or greater than 95 percent emission reduction or outlet

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concentration less than or equal to 0.42 ppmv. Compliance with this requirement will be determined by conducting stack emission testing according to 6 NYCRR Subpart 202-1. Testing protocol will be provided at least 30 days in advance of testing in accordance with 6 NYCRR 202-1.2.

Upper Permit Limit: 0.42 parts per million (by volume)
 Reference Test Method: EPA Method 26A
 Monitoring Frequency: Once every five years
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2024.
 Subsequent reports are due every 6 calendar month(s).

Condition 33: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 33.1:

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

Emission Unit: K-00001 Emission Point: OBS31
 Process: C4P

Regulated Contaminant(s):
 CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For any air contaminant not listed on Table 2, unless it is a solid particulate described in subdivision (c) of this Section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(a), Table 3 – Degree of Air Cleaning Required for Criteria Air Contaminants, or Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants. HF has been assigned an Environmental Rating of A and is controlled by three acid scrubbers (Emission Sources: ACID4, ACID5, ACID6) located in Building 320B. The three acids scrubbers in Building 320B are manifolded together and discharged into one stack (Emission Point OBS31).

Current Emission Rate Potential (ERP) for HF from building

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320B input scrubbers is less than 0.3 pound per hour. However, it is anticipated that the ERP could increase above 0.3 lb/hr but remain below 10 lb/hr which would require OnSemi to meet Table 4 at 99% degree of air cleaning. At the current ERP, OnSemi is required to meet the short term and annual guideline concentration (SGC/AGC) at the fence line of the facility. The facility performed refined AERMOD modeling demonstrating compliance with the respective SGC but not with the AGC.

In accordance with §212-1.5(d), the facility provided a Toxic - Best Available Control Technology (T-BACT) assessment of the achievable degree of air cleaning reduction. The assessment was based on the Maximum Available Control Technology (MACT) derived from 40 CFR Part 63, Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants (HAP) for Semiconductor Manufacturing. Subpart BBBBBB is applicable to major source of HAP and the MACT was established as 95% control of inorganic HAP emissions from process vent stream or the concentration of emitted inorganic HAP from the process vent to less than or equal to 0.42 ppmv. OnSemi is a not major source for HAP, however, it was able to demonstrate 97% emission reduction from building 320B discharges and concentrations less than 0.42 ppmv based on stack testing data.

OnSemi is required to meet the emission limit for HF equal to or greater than 95 percent emission reduction or outlet concentration less than or equal to 0.42 ppmv. Compliance with this requirement will be determined by conducting stack emission testing according to 6 NYCRR Subpart 202-1. Testing protocol will be provided at least 30 days in advance of testing in accordance with 6 NYCRR Part 202-1.2. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Upper Permit Limit: 0.42 parts per million (by volume)
Reference Test Method: EPA Method 26A
Monitoring Frequency: Once every five years
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2024.
Subsequent reports are due every 6 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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Facility DEC ID: 3132800025

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

Item 34.1:

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

Emission Unit: K-00001	
Process: C4P	Emission Source: ACID4
Emission Unit: K-00001	
Process: C4P	Emission Source: ACID5
Emission Unit: K-00001	
Process: C4P	Emission Source: ACID6
Regulated Contaminant(s):	
CAS No: 007664-39-3	HYDROGEN FLUORIDE

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

OnSemi operates an N+1 scrubber system with only two scrubbers in building 320B required to operate for full manufacturing with the third scrubber as backup. The acid scrubbers in building 320B will be maintained in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards, and procedures, inclusive of manufacturer's specifications. In addition, parameters used as indicators of scrubber performance such as pH and conductivity controls will be maintained according to manufacturer's specification set points and be monitored continuously. All monitoring records shall be maintained on-site for a period of at least five (5) years and made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 35: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 35.1:

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

Emission Unit: I-00001

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Process: 0WF	Emission Source: 3ACID
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACID1
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACID2
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACIDA
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACIDB
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACIDC
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACIDD
Emission Unit: I-00001	
Process: 0WF	Emission Source: ACIDE
Regulated Contaminant(s):	
CAS No: 007664-39-3	HYDROGEN FLUORIDE

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

OnSemi operates an N+1 scrubber system with only four scrubbers in building 323 required to operate for full manufacturing with the fifth scrubber as backup. Similarly, the 323 annex operates a N+1 system with two process scrubbers and a back up scrubber. The acid scrubbers in buildings 323 and B/323A will be maintained in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards, and procedures, inclusive of manufacturer's specifications. In addition, parameters used as indicators of scrubber performance such as PH and conductivity controls will be maintained according to manufacturer's specification set points and be monitored continuously. All monitoring records shall be maintained on-site for a period of at least five (5) years and made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Condition 36: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: K-00001

Process: C4P

Regulated Contaminant(s):

CAS No: 007440-22-4	SILVER
CAS No: 007440-74-6	INDIUM IN
CAS No: 000062-56-6	THIOUREA

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For any air contaminant not listed on Table 2, unless it is a solid particulate described in subdivision (c) of this Section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(a), Table 3 – Degree of Air Cleaning Required for Criteria Air Contaminants, or Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

The following non-criteria contaminants have been assigned an Environmental Rating of A with ERP of less than 0.1 lbs/hr and must demonstrate that the maximum offsite air concentration is less than the applicable short term and annual guideline concentration (SGC/AGC) -Table 4:

Tetra Methyl Ammonium Hydroxide
 Thiourea
 Silver
 Indium
 Indium Sulfamate

In addition, all air contaminants listed in the permit application receiving an Environmental rating of B or C and with an ERP less than 10 lbs/hr must demonstrate compliance with the AGC/SGC. The facility performed AERMOD modeling demonstrating compliance with the applicable NAAQS and respective SGC/AGC at the fence line of the

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facility for the A rated contaminants listed above and for B and C contaminants listed in the permit application. The modeling was approved by the Department on 02/08/2022.

OnSemi must maintain process ERP below the levels specified above for these criteria and non-criteria air contaminants. All records including, but not limited to, stack testing and/or material mass balance used in determining processes ERP shall be maintained on-site for a period of at least five (5) years and made available to Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 37: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 37.1:

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

Emission Unit: K-00001 Emission Point: 0BS31
 Process: C4P

Regulated Contaminant(s):
 CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For any air contaminant not listed on Table 2, unless it is a solid particulate described in subdivision (c) of this Section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(a), Table 3 – Degree of Air Cleaning Required for Criteria Air Contaminants, or Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants. HF has been assigned an Environmental Rating of A and is controlled by three acid scrubbers (Emission sources: ACID4, ACID5, and ACID6) located in Building 320B

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The three acid scrubbers in Building 320B are manifolded together and discharged into one stack (Emission Point: OBS31).

Current Emission Rate Potential (ERP) for HF from building 320B input scrubbers is less than 0.3 pound per hour. However, it is anticipated that the ERP could increase above 0.3 lb/hr but remain below 10 lb/hr which would require OnSemi to meet Table 4 at 99% degree of air cleaning. At the current ERP, OnSemi is required to meet the short term and annual guideline concentration (SGC/AGC) at the fence line of the facility. OnSemi performed refined AERMOD modeling demonstrating compliance with the respective SGC but not with the AGC.

In accordance with §212-1.5(d), OnSemi provided a Toxic - Best Available Control Technology (T-BACT) assessment of the achievable degree of air cleaning reduction. The assessment was based on the Maximum Available Control Technology (MACT) derived from 40 CFR Part 63, Subpart BBBBB - National Emission Standards for Hazardous Air Pollutants (HAP) for Semiconductor Manufacturing. Subpart BBBBB is applicable to major source of HAP and the MACT was established as 95% control of inorganic HAP emissions from process vent stream or the concentration of emitted inorganic HAP from the process vent to less than or equal to 0.42 ppmv. OnSemi is a not major source for HAP, however, it was able to demonstrate 97% emission reduction from building 320B discharges and concentrations less than or equal to 0.42 ppmv based on stack testing data.

OnSemi is required to meet the emission limit for HF equal to or greater than 95 percent emission reduction or outlet concentration less than or equal to 0.42 ppmv. Compliance with this requirement will be determined by conducting stack emission testing according to 6 NYCRR Subpart 202-1. Testing protocol will be provided at least 30 days in advance of testing in accordance with 6 NYCRR Part 202-1.2. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Lower Permit Limit: 95 percent degree of air cleaning or greater

Reference Test Method: EPA Method 26A

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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The initial report is due 1/30/2024.
 Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 38.1:

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

Emission Unit: I-00001 Emission Point: 00ACD
 Process: 0WF

Emission Unit: I-00001 Emission Point: 01ACD
 Process: 0WF

Emission Unit: I-00001 Emission Point: 02ACD
 Process: 0WF

Emission Unit: I-00001 Emission Point: 03ACD
 Process: 0WF

Emission Unit: I-00001 Emission Point: 04ACD
 Process: 0WF

Regulated Contaminant(s):
 CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For any air contaminant not listed on Table 2, unless it is a solid particulate described in subdivision (c) of this Section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(a), Table 3 – Degree of Air Cleaning Required for Criteria Air Contaminants, or Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants. HF has been assigned an Environmental Rating of A and is controlled by 8 Acid Scrubbers (Emission sources: ACIDA, ACIDB, ACIDC, ACIDD, ACIDE, ACID1, ACID2, 3ACID), 5 located in Building 323 and 3 in building 323 Annex. The 5 Acid scrubbers in building 323 outlets are manifolded together and discharged into two stacks (Emission points: 00ACD, 01ACD). Building 323 Annex acid system is made up of a single manifolded inlet into 3 scrubbers and 3 separate discharge stacks (Emission

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points: 02ACD, 03ACD, 04ACD).

Current Emission Rate Potential (ERP) for HF from building 323 annex input scrubbers is less than 0.1 pound per hour. However, it is anticipated that the ERP could increase above 0.1 lb/hr but remain below 1 lb/hr which would require OnSemi to meet Table 4 at 90% degree of air cleaning. At the current ERP, OnSemi is required to meet the short term and annual guideline concentration (SGC/AGC) at the fence line of the facility. OnSemi performed refined AERMOD modeling demonstrating compliance with the respective SGC but not with the AGC. The modeling was approved by the Department.

ERP for HF from building 323 inlets are greater than 1 lbs/hr but less than 10 lbs/hr and based on Table 4 must achieve a degree of air cleaning of 99%. In accordance with §212-1.5(d), OnSemi provided a Toxic - Best Available Control Technology (T-BACT) assessment of the achievable degree of air cleaning reduction. The assessment was based on the Maximum Available Control Technology (MACT) derived from 40 CFR Part 63, Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants (HAP) for Semiconductor Manufacturing. Subpart BBBBBB is applicable to major source of HAP and the MACT was established as 95% control of inorganic HAP emissions from process vent stream or the concentration of emitted inorganic HAP from the process vent to less than or equal to 0.42 ppmv. OnSemi is a not major source for HAP, however, it was able to demonstrate 98% emission reduction from building 323 discharges and concentrations less than or equal to 0.42 ppmv based on stack testing data. For the 323 annex, OnSemi demonstrated it met the 0.42 ppmv even with mass loading less than 0.1 lb/hr.

OnSemi is required to meet the emission limit for HF equal to or greater than 95 percent emission reduction or outlet concentration less than or equal to 0.42 ppmv. Compliance with this requirement will be determined by conducting stack emission testing according to 6 NYCRR Subpart 202-1. Testing protocol will be provided at least 30 days in advance of testing in accordance with 6 NYCRR Part 202-1.2. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Lower Permit Limit: 95 percent degree of air cleaning or greater

Reference Test Method: EPA Method 26A

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

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METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 39: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

Process: 0WF

Regulated Contaminant(s):

CAS No: 007803-51-2	PHOSPHINE
CAS No: 010028-15-6	OZONE
CAS No: 010102-43-9	NITRIC OXIDE
CAS No: 019287-45-7	DIBORANE
CAS No: 007782-41-4	FLUORINE

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For any air contaminant not listed on Table 2, unless it is a solid particulate described in subdivision (c) of this Section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(a), Table 3 – Degree of Air Cleaning Required for Criteria Air Contaminants, or Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

The following non-criteria contaminants have been assigned an Environmental Rating of A with ERP of less than 0.1 lbs/hr and must demonstrate that the maximum offsite air concentration is less than the applicable short term and annual guideline concentration (SGC/AGC) -Table 4:

- Tetrakis (Dimethylamino)Titanium
- Tetra Methyl Ammonium Hydroxide
- Tetraethyl Ammonium Hydroxide
- Fluorine

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Diborane
 Enriched Diborane
 Phosphine
 Ozone
 Nitric Oxide

In addition, all air contaminants listed in the permit application receiving an Environmental rating of B or C and with an ERP less than 10 lbs/hr must demonstrate compliance with the AGC/SGC. The facility performed AERMOD modeling demonstrating compliance with the applicable NAAQS and respective SGC/AGC at the fence line of the facility for the A rated contaminants listed above and for B and C contaminants listed in the permit application.

OnSemi must maintain process ERP below the levels specified above for these criteria and non-criteria air contaminants. All records including, but not limited to, stack testing and/or material mass balance used in determining processes ERP shall be maintained on-site for a period of at least five (5) years and made available to Department upon request.

For certain fluorinated compounds, the Department is evaluating toxicity relating to applicable AGC/SGC which may require OnSemi to revise its air modeling. Once appropriate AGC/SGC are assigned for these contaminants, OnSemi will be required to demonstrate compliance or resubmit a revised modeling protocol within 90 days of being notified.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 40: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

Process: 0WF

Emission Source: 3ACID

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Process: C4P	Emission Source: ACID4
Emission Unit: K-00001	
Process: C4P	Emission Source: ACID5
Emission Unit: K-00001	
Process: C4P	Emission Source: ACID6
Regulated Contaminant(s):	
CAS No: 0NY075-00-0	PARTICULATES

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions from any process emission source for which an application was received by the department after July 1, 1973 are restricted as follows:

No facility owner or operator shall cause or allow emissions of particulate that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except in instances where determination of permissible emission rate using process weight for a specific source category emitting solid particulate is based upon Table 5 and Table 6 of Subdivisions 212-2.5(a) and (b) of this Part.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: USEPA Reference Test Method 5

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 41: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 6 NYCRR 212-3.1 (c) (1)

Item 41.1:

The Compliance Certification activity will be performed for the Facility.

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

OnSemi is not required to further evaluate Reasonably Available Control Technology (RACT) for emission points with nitrogen oxide and volatile organic compound emission

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rate potentials less than 3.0 pounds per hour. This condition applies to numerous emission points associated with emission units generating these contaminants.

OnSemi shall maintain a comprehensive inventory record of emission points subject to this requirement as well as documentation of compliance as appropriate. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years. All records shall be available to the Department upon request.

The Department reserves the right to request OnSemi conduct future performance testing to verify compliance.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 42: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 6 NYCRR 212-3.1 (c) (4) (i)

Item 42.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: K-00001	
Process: C4P	Emission Source: BCONC

Emission Unit: K-00001	
Process: C4P	Emission Source: BOXID

Emission Unit: K-00001	
Process: C4P	Emission Source: CONC1

Emission Unit: K-00001	
Process: C4P	Emission Source: OXID1

Regulated Contaminant(s):	
CAS No: 000067-68-5	DIMETHYL SULFOXIDE
CAS No: 000872-50-4	1-METHYL-2-PYRROLIDONE
CAS No: 0NY998-00-0	VOC
CAS No: 000067-63-0	ISOPROPYL ALCOHOL

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Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC emission points that are equipped with a capture system and a control device with an overall removal efficiency of at least 81 percent are equipped with reasonably available control technology.

Compliance with this requirement will be determined by conducting stack emission testing according to 6 NYCRR Subpart 202-1. Testing protocol will be provided at least 30 days in advance of testing in accordance with 6 NYCRR 202-1.2.

All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Lower Permit Limit: 81 percent

Reference Test Method: EPA Method 18

Monitoring Frequency: Once every five years

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 43: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (4) (i)

Item 43.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

Process: 0WF

Emission Source: SOLV1

Emission Unit: I-00001

Process: 0WF

Emission Source: SOLV2

Emission Unit: I-00001

Process: 0WF

Emission Source: VRTO1

Emission Unit: I-00001

Process: 0WF

Emission Source: VRTO2

Emission Unit: I-00001

Process: 0WF

Emission Source: VRTO3

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Regulated Contaminant(s):

CAS No: 000096-48-0	DIHYDRO 2(3H)-FURANONE
CAS No: 000097-64-3	PROPANOIC ACID,2-METHYL-,1,2-ETHANEDIYL ESTER
CAS No: 000107-98-2	2-PROPANOL, 1-METHOXY
CAS No: 000108-65-6	2-PROPANOL, 1-METHOXY-, ACETATE
CAS No: 000108-94-1	CYCLOHEXANONE
CAS No: 000123-86-4	ACETIC ACID, BUTYL ESTER
CAS No: 000872-50-4	1-METHYL-2-PYRROLIDONE
CAS No: 0NY998-00-0	VOC
CAS No: 000067-63-0	ISOPROPYL ALCOHOL

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC Emission Rate Potential established as less than 25 lbs/hr for each contaminant per RTO and in accordance with Table 4 in 6 NYCRR 212-2.3 shall maintain a 90% or greater VOC control efficiency.

Compliance with this requirement will be determined by conducting stack emission testing according to 6 NYCRR Subpart 202-1. Testing protocol will be provided at least 30 days in advance of testing in accordance with 6 NYCRR 202-1.2.

All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Lower Permit Limit: 90 percent

Reference Test Method: EPA Method 18

Monitoring Frequency: Once every five years

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 44: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (4) (i)

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: K-00001

Process: C4P

Emission Source: BCONC

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Facility DEC ID: 3132800025

Condition 45: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 6 NYCRR 212-3.1 (c) (4) (i)

Item 45.1:

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

Emission Unit: I-00001	
Process: 0WF	Emission Source: SOLV1
Emission Unit: I-00001	
Process: 0WF	Emission Source: SOLV2
Emission Unit: I-00001	
Process: 0WF	Emission Source: VRTO1
Emission Unit: I-00001	
Process: 0WF	Emission Source: VRTO2
Emission Unit: I-00001	
Process: 0WF	Emission Source: VRTO3

Regulated Contaminant(s):

CAS No: 000067-63-0	ISOPROPYL ALCOHOL
CAS No: 000096-48-0	DIHYDRO 2(3H)-FURANONE
CAS No: 000097-64-3	
PROPANOIC ACID,2-METHYL-,1,2-ETHANEDIYL ESTER	
CAS No: 000107-98-2	2-PROPANOL, 1-METHOXY
CAS No: 000108-65-6	2-PROPANOL, 1-METHOXY-, ACETATE
CAS No: 000108-94-1	CYCLOHEXANONE
CAS No: 000123-86-4	ACETIC ACID, BUTYL ESTER
CAS No: 000872-50-4	1-METHYL-2-PYRROLIDONE
CAS No: 0NY998-00-0	VOC

Item 45.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

OnSemi East Fishkill shall operate the existing Regenerative Thermal Oxidizers at a minimum temperature of 1500 F. Emission Unit I-00001 - wafer fabrication- is in Building 323 and 323A. Building 323 consists of three Thermal Oxidizer units (VRTO1 ,VRTO2, VRTO3) with a bypass, which are used to control Volatile Organic Compounds (VOC). Building 323A consists of two Thermal Oxidizer units (SOLV1, SOLV2) as well as a bypass, which are used to control VOC. 6 NYCRR 212-3(c)(4) identifies Reasonably Available Control Technology (RACT) at major

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VOC source facilities as capture and control efficiency of 81%. VOC Emission Rate Potential established as 10 to 25 lbs/hr for each building and in accordance with Table 4 in 6 NYCRR 212-2.3 shall maintain a 90% or greater VOC control efficiency.

All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: TEMPERATURE
 Upper Permit Limit: 1500 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.
 The initial report is due 1/30/2024.
 Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 46.1:

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

Emission Unit: A-00001
 Process: MB6

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire residual oil are limited to a 0.50 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: RESIDUAL FUEL (#4, #5 AND/OR #6 FUEL OIL)

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Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.50 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 47: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 47.1:

The Compliance Certification activity will be performed for the Facility.

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: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 48: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 48.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

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Facility DEC ID: 3132800025

Emission Unit: K-00001

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 49: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 49.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001	Emission Point: 00001
Emission Unit: A-00001	Emission Point: 00002
Emission Unit: A-00001	Emission Point: 00003
Emission Unit: A-00001	Emission Point: 00004
Emission Unit: A-00001	Emission Point: 00005
Emission Unit: A-00001	Emission Point: 00006
Emission Unit: A-00001	Emission Point: 00008

Item 49.2:

Compliance Certification shall include the following monitoring:

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Facility DEC ID: 3132800025

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

Monitoring Description:

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

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

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 50: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 6 NYCRR 231-11.2 (b)

Item 50.1:

The Compliance Certification activity will be performed for the Facility.

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which, when added to all emissions excluded under section 231-4.1(b)(42)(i)(c) of this Part, is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, the facility owner or operator, in addition to complying with any requirements under Part 201 of this Title, must maintain the following information for a minimum of five years:

- (1) A description of the modification.
- (2) An identification of each new or modified emission

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source(s) including the associated processes and emission unit.

(3) The calculation of the project emission potential for each modified emission source(s) including supporting documentation.

(4) The date the modification commenced operation.

These recordkeeping requirements apply to exempt and trivial activities but do not affect their exempt or trivial permitting status under Subpart 201-3 of this Title. The facility must submit these records to the Department, upon the Department's request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 51: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028**

Applicable Federal Requirement: 6 NYCRR 231-11.2 (c)

Item 51.1:

The Compliance Certification activity will be performed for the Facility.

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which, when added to any emissions excluded in accordance with section 231-4.1(b)(42)(i)(c) of this Part, equals or exceeds 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part and the project emission potential is less than the applicable significant project threshold, the facility owner or operator must submit an application to modify the facility permit under the minor permit provisions of Subpart 201-6 of this Title, and must:

(1) maintain the following information for a minimum of five years:

(i) a description of the modification.

(ii) an identification of each new or modified emission source(s) including the associated processes and emission

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unit.

(iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation.

(iv) the date the modification commenced operation.

(2) monitor the emissions of each regulated NSR contaminant from the emission source(s) that will increase as a result of the modification, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the modification, or for a period of 10 years following resumption of regular operations after the change if the modification increases the design capacity of or potential to emit the regulated NSR contaminant at such emission source(s). The calculation of actual emissions must use the same methodology that was used in the application for the project; and

(3) submit a report to the department within 30 days after the end of each year during which records must be generated in accordance with Paragraph 231-11.2(c)(2) of this Part. The report must contain:

(i) the name, address, and telephone number of the major facility.

(ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this Section.

(iii) a comparison of actual annual emissions to the projected actual emissions and, if applicable, an explanation as to why the actual annual emissions exceeded the projected actual emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 52: Applicability

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 40CFR 60, NSPS Subpart IIII

Item 52.1:

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

Condition 53: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 54: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 54.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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If the facility owns or operates an emergency stationary ICE, the facility must operate the emergency stationary ICE according to the requirements in 40 CFR Part 60.4211(f)(1)-(3). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR Part 60.4211(f)(1)-(3), is prohibited. If the facility does not operate the engine according to the requirements in 40 CFR Part 60.4211(f)(1)-(3), the engine will not be considered an emergency engine under this condition and must meet all requirements in 40 CFR Part 60, Subpart IIII for non-emergency engines.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 55: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:40CFR 63.11223(b), Subpart JJJJJ

Item 55.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Process: MB6

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as specified in 40 CFR 63.11223(c) through (f), the owner or operator of an industrial, commercial, or institutional boiler must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (1) through (7). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler.

(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the

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owner or operator may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.

(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.

(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the owner or operator may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.

(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.

(5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (i) through (iii).

(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.

(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

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(7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 56: Compliance Certification
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 40CFR 63.11507(g), Subpart WWWW

Item 56.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

- | | |
|------------------------|------------------------|
| Emission Unit: K-00001 | |
| Process: C4P | Emission Source: 472AA |
| | |
| Emission Unit: K-00001 | |
| Process: C4P | Emission Source: PLT04 |
| | |
| Emission Unit: K-00001 | |
| Process: C4P | Emission Source: PLT05 |
| | |
| Emission Unit: K-00001 | |
| Process: C4P | Emission Source: PLTE1 |

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected new or existing plating and polishing process unit that contains, applies, or emits one or more of the plating and polishing metal HAP must implement the applicable management practices in paragraphs (1) through (12), as practicable.

(1) Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements.

(2) Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable.

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(3) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable.

(4) Use tank covers, if already owned and available at the facility, whenever practicable.

(5) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality).

(6) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable.

(7) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable.

(8) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable.

(9) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable.

(10) Minimize spills and overflow of tanks, as practicable.

(11) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable.

(12) Perform regular inspections to identify leaks and other opportunities for pollution prevention.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 57: Applicability

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 40CFR 63, Subpart ZZZZ

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Emission Point: 00005
 Height (ft.): 57 Diameter (in.): 36
 NYTMN (km.): 4599.434 NYTME (km.): 598.232 Building: B/315

Emission Point: 00006
 Height (ft.): 57 Diameter (in.): 36
 NYTMN (km.): 4599.445 NYTME (km.): 598.272 Building: B/315

Emission Point: 00008
 Height (ft.): 57 Diameter (in.): 36
 NYTMN (km.): 4599.451 NYTME (km.): 598.288 Building: B/315

Item 59.2:

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

Emission Unit: B-00001

Emission Point: 0NH31
 Height (ft.): 56 Diameter (in.): 3
 NYTMN (km.): 4599.644 NYTME (km.): 598.44 Building: B/317

Emission Point: 0NH32
 Height (ft.): 56 Diameter (in.): 3
 NYTMN (km.): 4599.652 NYTME (km.): 598.437 Building: B/317

Emission Point: 0T283
 Height (ft.): 45 Diameter (in.): 4
 NYTMN (km.): 4599.59 NYTME (km.): 598.425 Building: B/316

Emission Point: 0T284
 Height (ft.): 45 Diameter (in.): 4
 NYTMN (km.): 4599.591 NYTME (km.): 598.433 Building: B/316

Emission Point: PTWT1
 Height (ft.): 10 Diameter (in.): 6
 NYTMN (km.): 4599.589 NYTME (km.): 598.427 Building: B/386

Emission Point: T3228
 Height (ft.): 45 Diameter (in.): 4
 NYTMN (km.): 4599.589 NYTME (km.): 598.427 Building: B/316

Item 59.3:

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

Emission Unit: I-00001

Emission Point: 00ACD
 Height (ft.): 83 Diameter (in.): 68
 NYTMN (km.): 4599.204 NYTME (km.): 598.001 Building: B/323

Emission Point: 00VOC

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Height (ft.): 83	Diameter (in.): 66	
NYTMN (km.): 4599.249	NYTME (km.): 597.994	Building: B/323
Emission Point: 01ACD		
Height (ft.): 83	Diameter (in.): 68	
NYTMN (km.): 4599.199	NYTME (km.): 598.003	Building: B/323
Emission Point: 01CAS		
Height (ft.): 83	Diameter (in.): 65	
NYTMN (km.): 4599.245	NYTME (km.): 597.984	Building: B/323
Emission Point: 02ACD		
Height (ft.): 88	Diameter (in.): 48	
NYTMN (km.): 4599.043	NYTME (km.): 598.074	Building: B/323A
Emission Point: 02CAS		
Height (ft.): 88	Diameter (in.): 42	
NYTMN (km.): 4599.011	NYTME (km.): 598.02	Building: B/323A
Emission Point: 03ACD		
Height (ft.): 88	Diameter (in.): 48	
NYTMN (km.): 4599.036	NYTME (km.): 598.077	Building: B/323A
Emission Point: 03CAS		
Height (ft.): 88	Diameter (in.): 42	
NYTMN (km.): 4599.007	NYTME (km.): 598.093	Building: B/323A
Emission Point: 03VOC		
Height (ft.): 88	Diameter (in.): 72	
NYTMN (km.): 4599.089	NYTME (km.): 598.068	Building: B/323A
Emission Point: 04ACD		
Height (ft.): 88	Diameter (in.): 48	
NYTMN (km.): 4599.028	NYTME (km.): 598.081	Building: B/323A
Emission Point: 04CAS		
Height (ft.): 88	Diameter (in.): 42	
NYTMN (km.): 4599.015	NYTME (km.): 598.09	Building: B/323A
Emission Point: 05CAS		
Height (ft.): 88	Diameter (in.): 42	
NYTMN (km.): 4599.023	NYTME (km.): 598.092	Building: B/323A
Emission Point: GEN01		
Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.221	NYTME (km.): 597.986	Building: B/323
Emission Point: GEN02		
Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.214	NYTME (km.): 597.989	Building: B/323
Emission Point: GEN03		

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Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.207	NYTME (km.): 597.992	Building: B/323
Emission Point: GEN04		
Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.201	NYTME (km.): 597.995	Building: B/323
Emission Point: GEN05		
Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.194	NYTME (km.): 597.998	Building: B/323
Emission Point: GEN06		
Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.187	NYTME (km.): 598.	Building: B/323
Emission Point: GEN07		
Height (ft.): 83	Diameter (in.): 60	
NYTMN (km.): 4599.18	NYTME (km.): 598.003	Building: B/323
Emission Point: GEN08		
Height (ft.): 88	Diameter (in.): 67	
NYTMN (km.): 4599.084	NYTME (km.): 598.018	Building: B/323A
Emission Point: GEN09		
Height (ft.): 88	Diameter (in.): 67	
NYTMN (km.): 4599.085	NYTME (km.): 598.021	Building: B/323A
Emission Point: GEN10		
Height (ft.): 88	Diameter (in.): 67	
NYTMN (km.): 4599.087	NYTME (km.): 598.025	Building: B/323A
Emission Point: GEN11		
Height (ft.): 88	Diameter (in.): 67	
NYTMN (km.): 4599.088	NYTME (km.): 598.029	Building: B/323A

Item 59.4:

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

Emission Unit: K-00001		
Emission Point: 06CAS		
Height (ft.): 47	Diameter (in.): 14	
NYTMN (km.): 4599.739	NYTME (km.): 598.191	Building: B/320B
Emission Point: 0BC4A		
Height (ft.): 70	Diameter (in.): 50	
NYTMN (km.): 4599.598	NYTME (km.): 598.048	Building: B/320B
Emission Point: 0BC4S		
Height (ft.): 76	Diameter (in.): 24	
NYTMN (km.): 4599.605	NYTME (km.): 598.072	Building: B/320B

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Emission Point: OBS31	Height (ft.): 80	Diameter (in.): 42	
	NYTMN (km.): 4599.739	NYTME (km.): 598.191	Building: B/320B
Emission Point: BBASE	Height (ft.): 54	Diameter (in.): 30	
	NYTMN (km.): 4599.59	NYTME (km.): 598.14	Building: B/320B
Emission Point: BCONC	Height (ft.): 52	Diameter (in.): 20	
	NYTMN (km.): 4599.6	NYTME (km.): 598.04	Building: B/320B
Emission Point: BOXID	Height (ft.): 52	Diameter (in.): 10	
	NYTMN (km.): 4599.592	NYTME (km.): 598.043	Building: B/320B
Emission Point: C4ACI	Height (ft.): 70	Diameter (in.): 30	
	NYTMN (km.): 4599.574	NYTME (km.): 598.086	Building: B/320B
Emission Point: C4SOL	Height (ft.): 66	Diameter (in.): 16	
	NYTMN (km.): 4599.626	NYTME (km.): 598.037	Building: B/320B
Emission Point: CONC1	Height (ft.): 65	Diameter (in.): 28	
	NYTMN (km.): 4599.586	NYTME (km.): 598.126	Building: B/320B
Emission Point: OXID1	Height (ft.): 65	Diameter (in.): 10	
	NYTMN (km.): 4599.579	NYTME (km.): 598.13	Building: B/320B

Condition 60: Process Definition By Emission Unit
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 60.1:

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

Emission Unit: A-00001
 Process: ES2 Source Classification Code: 1-02-005-01
 Process Description: Combustion of Fuel Oil #2 in exempt sources.

Emission Source/Control: 0D001 - Combustion
 Design Capacity: 9.9 million Btu per hour

Emission Source/Control: 0D002 - Combustion
 Design Capacity: 9.9 million Btu per hour

Emission Source/Control: GB014 - Combustion
 Design Capacity: 838 horsepower (mechanical)

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Emission Source/Control: GB015 - Combustion
Design Capacity: 2,682 horsepower (mechanical)

Emission Source/Control: GD002 - Combustion
Design Capacity: 308 horsepower (mechanical)

Emission Source/Control: GD005 - Combustion
Design Capacity: 402 horsepower (mechanical)

Emission Source/Control: GG011 - Combustion
Design Capacity: 2,682 horsepower (mechanical)

Emission Source/Control: GG012 - Combustion
Design Capacity: 2,012 horsepower (mechanical)

Emission Source/Control: GK020 - Combustion
Design Capacity: 805 horsepower (mechanical)

Emission Source/Control: GR016 - Combustion
Design Capacity: 1,006 horsepower (mechanical)

Emission Source/Control: GX004 - Combustion
Design Capacity: 670 horsepower (mechanical)

Emission Source/Control: GX005 - Combustion
Design Capacity: 1,006 horsepower (mechanical)

Emission Source/Control: GX020 - Combustion
Design Capacity: 670 horsepower (mechanical)

Emission Source/Control: GXPOR - Combustion
Design Capacity: 711 horsepower (mechanical)

Emission Source/Control: GY002 - Combustion
Design Capacity: 100 horsepower (mechanical)

Emission Source/Control: GZ002 - Combustion
Design Capacity: 1,944 horsepower (mechanical)

Emission Source/Control: GZ003 - Combustion
Design Capacity: 2,682 horsepower (mechanical)

Emission Source/Control: GZ007 - Combustion
Design Capacity: 2,682 horsepower (mechanical)

Emission Source/Control: GZ008 - Combustion
Design Capacity: 4,454 horsepower (mechanical)

Emission Source/Control: L1491 - Combustion
Design Capacity: 370 horsepower (mechanical)

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Emission Source/Control: L1493 - Combustion
Design Capacity: 370 horsepower (mechanical)

Emission Source/Control: L1494 - Combustion
Design Capacity: 370 horsepower (mechanical)

Emission Source/Control: OL907 - Combustion
Design Capacity: 370 horsepower (mechanical)

Item 60.2:

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

Emission Unit: A-00001
Process: MB6 Source Classification Code: 1-02-004-02
Process Description:
Six (6) 72 mmBtu/hr boilers burning No. 6 fuel oil as backup.

Emission Source/Control: 00001 - Combustion

Emission Source/Control: 00002 - Combustion

Emission Source/Control: 00003 - Combustion

Emission Source/Control: 00004 - Combustion

Emission Source/Control: 00005 - Combustion

Emission Source/Control: 00006 - Combustion

Item 60.3:

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

Emission Unit: A-00001
Process: MBN Source Classification Code: 1-02-006-02
Process Description: Seven (7) 72 mmBtu/hr boilers firing natural gas.

Emission Source/Control: 00001 - Combustion

Emission Source/Control: 00002 - Combustion

Emission Source/Control: 00003 - Combustion

Emission Source/Control: 00004 - Combustion

Emission Source/Control: 00005 - Combustion

Emission Source/Control: 00006 - Combustion

Emission Source/Control: 00008 - Combustion

Item 60.4:

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

Emission Unit: B-00001
Process: 316 Source Classification Code: 4-07-999-97
Process Description: CHEMICAL HANDLING IN B/316

Emission Source/Control: 0T283 - Process

Item 60.5:

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

Emission Unit: B-00001
Process: 317 Source Classification Code: 3-13-065-99
Process Description: Chemical Handling B/317

Emission Source/Control: 1O181 - Process

Item 60.6:

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

Emission Unit: B-00001
Process: 386 Source Classification Code: 5-03-007-02
Process Description: CHEMICAL HANDLING IN B/386

Emission Source/Control: PTWT1 - Process

Item 60.7:

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

Emission Unit: I-00001
Process: 0WF Source Classification Code: 3-13-065-99
Process Description:
the operation of eight (8) Acid Scrubbers, eight (8) Base
Scrubbers, and five (5) Regenerative Thermal Oxidizers.

Emission Source/Control: 3ACID - Control
Control Type: WET SCRUBBER

Emission Source/Control: ACID1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: ACID2 - Control
Control Type: WET SCRUBBER

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

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

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

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

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

Emission Source/Control: BASE1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BASE2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BASE3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BASE5 - Control
Control Type: WET SCRUBBER

Emission Source/Control: BASE6 - Control
Control Type: WET SCRUBBER

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

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

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

Emission Source/Control: SOLV1 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: SOLV2 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: VRTO1 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: VRTO2 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: VRTO3 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: ASCRB - Process

Item 60.8:

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

Emission Unit: K-00001

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PTE(s): 21.40122 pounds per hour

187,474.7 pounds per year

Condition 62: Compliance Certification

Effective between the dates of 11/28/2023 and 11/27/2028

Applicable Federal Requirement: 40CFR 63.6640(f), Subpart ZZZZ

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00001

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary RICE must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the owner or operator does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under subpart ZZZZ and must meet all requirements for non-emergency engines.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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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 63: Contaminant List
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable State Requirement: ECL 19-0301

Item 63.1:

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: 000062-56-6
Name: THIOUREA

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

CAS No: 000067-68-5
Name: DIMETHYL SULFOXIDE

CAS No: 000096-48-0
Name: DIHYDRO 2(3H)-FURANONE

CAS No: 000097-64-3
Name: PROPANOIC ACID, 2-METHYL-, 1,2-ETHANEDIYL ESTER

CAS No: 000107-98-2

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Name: 2-PROPANOL, 1-METHOXY

CAS No: 000108-65-6

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

CAS No: 000108-94-1

Name: CYCLOHEXANONE

CAS No: 000123-86-4

Name: ACETIC ACID, BUTYL ESTER

CAS No: 000872-50-4

Name: 1-METHYL-2-PYRROLIDONE

CAS No: 001333-82-0

Name: CHROMIUM OXIDE

CAS No: 007439-96-5

Name: MANGANESE

CAS No: 007440-02-0

Name: NICKEL METAL AND INSOLUBLE COMPOUNDS

CAS No: 007440-22-4

Name: SILVER

CAS No: 007440-38-2

Name: ARSENIC

CAS No: 007440-47-3

Name: CHROMIUM

CAS No: 007440-62-2

Name: VANADIUM

CAS No: 007440-74-6

Name: INDIUM IN

CAS No: 007550-45-0

Name: TITANIUM TETRACHLORIDE

CAS No: 007664-39-3

Name: HYDROGEN FLUORIDE

CAS No: 007722-64-7

Name: POTASSIUM PERMANGANATE

CAS No: 007782-41-4

Name: FLUORINE

CAS No: 007784-42-1

Name: ARSINE

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CAS No: 007803-51-2
Name: PHOSPHINE

CAS No: 010025-82-8
Name: INDIUM CHLORIDE

CAS No: 010028-15-6
Name: OZONE

CAS No: 010102-43-9
Name: NITRIC OXIDE

CAS No: 019287-45-7
Name: DIBORANE

CAS No: 025014-41-9
Name: ACRYLONITRILE POLYME

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

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

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

Condition 64: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable State Requirement:6 NYCRR 201-1.4

Item 64.1:

(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

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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.

Condition 65: CLCPA Applicability
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable State Requirement:6 NYCRR 201-6.5 (a)

Item 65.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 66: Air pollution prohibited
Effective between the dates of 11/28/2023 and 11/27/2028

Applicable State Requirement:6 NYCRR 211.1

Item 66.1:

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 67: Compliance Demonstration

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

Item 67.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000050-00-0	FORMALDEHYDE
CAS No: 007439-96-5	MANGANESE
CAS No: 007440-02-0	NICKEL METAL AND INSOLUBLE
COMPOUNDS	
CAS No: 007440-38-2	ARSENIC
CAS No: 007440-47-3	CHROMIUM
CAS No: 007440-62-2	VANADIUM
CAS No: 007550-45-0	TITANIUM TETRACHLORIDE
CAS No: 025014-41-9	ACRYLONITRILE POLYME
CAS No: 007722-64-7	POTASSIUM PERMANGANATE
CAS No: 007784-42-1	ARSINE

Item 67.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For an air contaminant listed in Section 212-2.2 Table 2 – High Toxicity Air Contaminant List (HTAC), of this Part, OnSemi shall limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual HTAC. Table 2 contaminant names are in parenthesis.

- Acrylonitrile = 25 lbs/yr
- Allyl Alcohol = 500 lbs/yr
- Arsenic Compounds = 1 lb/yr
- Arsine = 10 lbs/yr
- Chrome (VI) Oxide = 0.1 lb/yr
- Chromium Compounds = 250 lbs/yr
- Formaldehyde = 100 lbs/yr
- Nickel Compounds = 10 lbs/yr
- Potassium Permanganate = 10 lbs/yr
- Potassium Permanganate (manganese compounds) = 10 lbs/yr
- Titanium Tetrachloride = 0.1 lb/yr
- Vanadium = 25 lbs/yr

For these HTACs, all records including, but not limited to, stack testing and or material/mass balance used in determining process emissions compliance shall be maintained on-site for a period of at least five (5) years

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and made available to Department upon request.

Monitoring Frequency: ANNUALLY
 Averaging Method: ANNUAL TOTAL
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2024.
 Subsequent reports are due every 6 calendar month(s).

Condition 68: Compliance Demonstration
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 68.1:

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

Emission Unit: I-00001
 Process: 0WF

Regulated Contaminant(s):
 CAS No: 007550-45-0 TITANIUM TETRACHLORIDE
 CAS No: 001333-82-0 CHROMIUM OXIDE

Item 68.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a High Toxicity Air Contaminant (HTAC) assigned an Environmental Rating of A and has an Emission Rate Potential (ERP) of less than 0.1 pound per hour and annual mass emissions of a persistent and bioaccumulative compound less than the PB Trigger, the owner or operator is required to meet the short term and annual guideline concentration at the fenceline of the facility.

The following HTACs have been assigned an Environmental Rating of A with ERP of less than 0.1 pound per hour:

Chrome (VI) Oxide
 Titanium Tetrachloride

The facility performed refined AERMOD modeling for Chrome (VI) Oxide and Titanium Tetrachloride demonstrating compliance with the respective SGC/AGC at the fenceline.

For these contaminants, OnSemi must maintain process level ERP at less than 0.1 pound per hour. All records including, but not limited to, stack testing and/or

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material mass balance used in determining process ERP shall be maintained on-site for a period of at least five (5) years and made available to Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 69: Compliance Demonstration
Effective between the dates of 11/28/2023 and 11/27/2028

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

Item 69.1:

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

Emission Unit: K-00001

Process: C4P

Regulated Contaminant(s):

CAS No: 000062-56-6	THIOUREA
CAS No: 007440-22-4	SILVER
CAS No: 010025-82-8	INDIUM CHLORIDE
CAS No: 007440-74-6	INDIUM IN

Item 69.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a High Toxicity Air Contaminant (HTAC) assigned an Environmental Rating of A and has an Emission Rate Potential (ERP) of less than 0.1 pound per hour and annual mass emissions of a persistent and bioaccumulative compound less than the PB Trigger, the owner or operator is required to meet the short term and annual guideline concentration at the fence line of the facility.

The following HTACs have been assigned an Environmental Rating of A with ERP of less than 0.1 pound per hour:

Indium & (Indium Sulfamate)
 Indium Chloride
 Silver
 Thiourea
 Tetramethylammonium Hydroxide

The listed HTAC contaminants have been demonstrated to be

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in compliance with 6 NYCRR Part 212-2.1(a) by meeting the DAR-1 guideline concentrations. The facility performed refined AERMOD modeling to demonstrate compliance with the respective SGC/AGC at the fence line.

For these contaminants, OnSemi must maintain process level ERP at less than 0.1 pound per hour. All records including, but not limited to, stack testing and/or material mass balance used in determining process ERP shall be maintained on-site for a period of at least five (5) years and made available to Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

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