

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
Mod 0 Effective Date: 05/08/2017 Expiration Date: 05/07/2022
Mod 1 Effective Date: 11/18/2019 Expiration Date: 05/07/2022
Mod 2 Effective Date: 04/01/2020 Expiration Date: 05/07/2022

Permit Issued To: GLOBALFOUNDRIES US 2 LLC
Hudson Valley Research Park
2070 Rte 52
Hopewell Junction, NY 12533

I.PARK EAST FISHKILL LLC
485 W PUTNAM AVE
GREENWICH, CT 06830

I.PARK EAST FISHKILL I LLC
485 W PUTNAM AVE
GREENWICH, CT 06830

Facility: GLOBALFOUNDRIES EAST FISHKILL FACILITY
2070 ST RTE 52
HOPEWELL JUNCTION, NY 12533

Contact: BRUCE TRIPP
GLOBALFOUNDRIES US 2 LLC
2070 ROUTE 52 BLDG 325
HOPEWELL JUNCTION, NY 12533-3507
(845) 892-1616

Description:
GLOBALFOUNDRIES is requesting a minor permit modification to change the current condition 24 "Operational Flexibility" to make certain changes under an approved protocol.

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

Permit Administrator: 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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- 5 5 Permit modifications, suspensions or revocations by the Department

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- 5 6 Submission of application for permit modification or renewal-REGION 3 HEADQUARTERS

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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 submitted prior to actual transfer of ownership.

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Condition 1-1: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 1-1.1:

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 1-1.2:

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

Item 1-1.3

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

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

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 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

Division of Air Resources



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(845) 256-3054

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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Facility: GLOBALFOUNDRIES EAST FISHKILL FACILITY
2070 ST RTE 52
HOPEWELL JUNCTION, NY 12533

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

Mod 0 Permit Effective Date: 05/08/2017

Permit Expiration Date: 05/07/2022

Mod 1 Permit Effective Date: 11/18/2019

Permit Expiration Date: 05/07/2022

Mod 2 Permit Effective Date: 04/01/2020

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- 77 1-12 40CFR 63.11223(b), Subpart JJJJJ: Compliance Certification
- 79 41 40CFR 63.11507(g), Subpart WWWW: Compliance Certification
- 81 42 40CFR 63, Subpart ZZZZ: Compliance and Enforcement
- 81 44 40CFR 82, Subpart F: Compliance Certification
- 82 45 40 CFR Part 98: Compliance Certification
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- 82 46 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
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- 90 48 6 NYCRR 227-1.3 (a): Compliance Certification

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- 94 50 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 95 26 6 NYCRR 211.1: Air pollution prohibited
- 95 1-13 6 NYCRR 212-2.1 (a): Compliance Demonstration
- 96 1-14 6 NYCRR 212-2.1 (a): Compliance Demonstration
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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 3/Mod 2/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 reissuance, or termination, or of a notification of

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

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

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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 05/08/2017 and 05/07/2022

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

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Condition 2: Fees

Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 2.1:

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

Condition 3: Recordkeeping and Reporting of Compliance Monitoring

Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 3.1:

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

(i) The date, place, and time of sampling or measurements;

(ii) The date(s) analyses were performed;

(iii)The company or entity that performed the analyses;

(iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;

(v) The results of such analyses including quality assurance data where required; and

(vi) The operating conditions as existing at the time of sampling or measurement.

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

Condition 4: Records of Monitoring, Sampling, and Measurement

Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 5: Compliance Certification

Effective between the dates of 05/08/2017 and 05/07/2022

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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, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting

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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 report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

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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 7/30/2017.

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

Condition 1-1: Compliance Certification
Effective between the dates of 11/18/2019 and 05/07/2022

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

Item 1-1.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-1.2:

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 specified in any special permit terms or conditions; and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.

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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
 625 Broadway
 Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
 Reporting Requirements: ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:
The Compliance Certification activity will be performed for the Facility.

Item 7.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Emission statements shall be submitted on or before April
15th each year for emissions of the previous calendar
year.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 2-1: Recordkeeping requirements
Effective between the dates of 04/01/2020 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 2-1.1:
(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
 - (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.
- (b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 8: Recordkeeping requirements
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:
(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

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

Condition 9: Open Fires - Prohibitions
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement: 6 NYCRR 215.2

Item 9.1:

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

Item 9.2

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

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law,

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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 10: Maintenance of Equipment
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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 11: Recycling and Salvage
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 13.1:

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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 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 14.1:

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 15: Requirement to Provide Information
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 15.1:

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

Condition 16: Right to Inspect
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

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

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(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 17: Off Permit Changes

Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)**Item 17.1:**

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 18: Required Emissions Tests

Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 202-1.1**Item 18.1:**

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

Condition 19: Accidental release provisions.

Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:40 CFR Part 68**Item 19.1:**

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:

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

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

Condition 20: Recycling and Emissions Reduction
 Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

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

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

Condition 21: Emission Unit Definition
 Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 21.1(From Mod 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 6 of the 7 boilers).

Building(s): B/315

Item 21.2(From Mod 0):

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

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tanks, hazardous waste storage and the Chemical Distribution Center.

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

Item 21.3(From Mod 1):

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, and five Acid Scrubbers. Building 323A consists of two Regenerative Thermal Oxidizer units, three Acid Scrubbers and five Base Scrubbers.

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

Item 21.4(From Mod 1):

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

Emission Unit: K-00001

Emission Unit Description:

This emission unit consist of controlled collapse chip connection (C4) plating operations R+D with manufacturing / production. B/320 (C4) includes 2 Concentrator Thermal Oxidizers.

Building(s): B/320B

Condition 1-2: Compliance Certification

Effective between the dates of 11/18/2019 and 05/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Replaces Condition(s) 22

Item 1-2.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-2.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The list below supplements conditions #24, 46, and 47 - 6 NYCRR Subpart 201-6 Emission Units, Points, Processes and Source/Controls. GLOBALFOUNDRIES East Fishkill shall maintain a current record

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on site. This list shall be submitted to the Department during permit renewals and modifications or upon request.

A-00001	1	1	MB6/MBN
A-00001	2	2	MB6/MBN
A-00001	3	3	MB6/MBN
A-00001	4	4	MB6/MBN
A-00001	5	5	MB6/MBN
A-00001	6	6	MB6/MBN
A-00001	7	7	MB6*/MBN*
A-00001	8	8	MB6**/MBN
B-00001	T283	T283	316
B-00001	T284	T284	316
B-00001	T3228	T3228	31
6			
B-00001	01SC1	01SC1	31
7			
B-00001	01T1A	01T1A	31
7			
B-00001	01T1B	01T1B	31
7			
B-00001	02SC1	02SC1	31
7			
B-00001	1DIS1	1DIS1	31
7			
B-00001	2DIS1	2DIS1	31
7			
B-00001	PTWT1	PTWT1	38
6			
B-00001	1O181	1O181	31
7			
B-00001	L1601	L1601	31
7			
I-00001	0AA02	0AA02	0W
F			
I-00001	0AB01	0AB01	0W
F			
I-00001	0AB02	0AB02	0W
F			
I-00001	0AB03	0AB03	0W
F			
I-00001	0AB04	0AB04	0W
F			
I-00001	0AB05	0AB05	0W
F			
I-00001	0ABD1	0ABD1	0W

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F				
I-00001	0AC01	0AC01	0W	
F				
I-00001	0AC02	0AC02	0W	
F				
I-00001	ACIDA	ACIDA	0W	
F				
I-00001	ACIDB	ACIDB	0W	
F				
I-00001	ACIDC	ACIDC	0W	
F				
I-00001	ACIDD	ACIDD	0W	
F				
I-00001	ACIDE	ACIDE	0W	
F				
I-00001	0AE01	0AE01	0W	
F				
I-00001	0AE02	0AE02	0W	
F				
I-00001	0AE03	0AE03	0W	
F				
I-00001	0AED1	0AED1	0W	
F				
I-00001	0AED2	0AED2	0W	
F				
I-00001	0BA01	0BA01	0W	
F				
I-00001	0BA02	0BA02	0W	
F				
I-00001	0BAD1	0BAD1	0W	
F				
I-00001	0BB01	0BB01	0W	
F				
I-00001	0BB02	0BB02	0W	
F				
I-00001	0BB03	0BB03	0W	
F				
I-00001	0BC01	0BC01	0W	
F				
I-00001	0BC02	0BC02	0W	
F				
I-00001	0BCD1	0BCD1	0W	
F				
I-00001	0BD01	0BD01	0W	
F				
I-00001	BD01M	BD01M	0W	
F				
I-00001	0BDD1	0BDD1	0W	
F				
I-00001	0BE01	0BE01	0W	
F				
I-00001	0CA03	0CA03	0W	

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F				
I-00001	0CA04	0CA04	0W	
F				
I-00001	0CB01	0CB01	0W	
F				
I-00001	0CB02	0CB02	0W	
F				
I-00001	0CB03	0CB03	0W	
F				
I-00001	0CB04	0CB04	0W	
F				
I-00001	0CB05	0CB05	0W	
F				
I-00001	0CBD1	0CBD1	0W	
F				
I-00001	0CM01	0CM01	0W	
F				
I-00001	CM01M	CM01M	0W	
F				
I-00001	0CMD1	0CMD1	0W	
F				
I-00001	CMD1M	CMD1M	0W	
F				
I-00001	0CMD2	0CMD2	0W	
F				
I-00001	CMD2M	CMD2M	0W	
F				
I-00001	0DC01	0DC01	0W	
F				
I-00001	0DCD1	0DCD1	0W	
F				
I-00001	0DG01	0DG01	0W	
F				
I-00001	0DG02	0DG02	0W	
F				
I-00001	0DG03	0DG03	0W	
F				
I-00001	0DG04	0DG04	0W	
F				
I-00001	0DGD2	0DGD2	0W	
F				
I-00001	0DJ01	0DJ01	0W	
F				
I-00001	0DJ02	0DJ02	0W	
F				
I-00001	0DJD1	0DJD1	0W	
F				
I-00001	0DK02	0DK02	0W	
F				
I-00001	0DL01	0DL01	0W	
F				
I-00001	0DL02	0DL02	0W	

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F				
I-00001	ODM01	ODM01	0W	
F				
I-00001	ODM02	ODM02	0W	
F				
I-00001	ODMD1	ODMD1	0W	
F				
I-00001	ODN01	ODN01	0W	
F				
I-00001	ODN02	ODN02	0W	
F				
I-00001	ODN04	ODN04	0W	
F				
I-00001	ODN05	ODN05	0W	
F				
I-00001	ODO01	ODO01	0W	
F				
I-00001	ODO02	ODO02	0W	
F				
I-00001	ODOD1	ODOD1	0W	
F				
I-00001	ODPD1	ODPD1	0W	
F				
I-00001	ODQ01	ODQ01	0W	
F				
I-00001	ODQ02	ODQ02	0W	
F				
I-00001	ODS01	ODS01	0W	
F				
I-00001	ODU01	ODU01	0W	
F				
I-00001	ODUD1	ODUD1	0W	
F				
I-00001	ODV30	ODV30	0W	
F				
I-00001	ODWD1	ODWD1	0W	
F				
I-00001	ODX01	ODX01	0W	
F				
I-00001	ODX02	ODX02	0W	
F				
I-00001	0FA01	0FA01	0W	
F				
I-00001	FA01M	FA01M	0W	
F				
I-00001	0FB01	0FB01	0W	
F				
I-00001	FB01M	FB01M	0W	
F				
I-00001	0FE01	0FE01	0W	
F				
I-00001	0FE02	0FE02	0W	

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F				
I-00001	0FE03	0FE03	0W	
F				
I-00001	0FE04	0FE04	0W	
F				
I-00001	0FF02	0FF02	0W	
F				
I-00001	0FFD1	0FFD1	0W	
F				
I-00001	0FG01	0FG01	0W	
F				
I-00001	0FH01	0FH01	0W	
F				
I-00001	FH01M	FH01M	0W	
F				
I-00001	0FH04	0FH04	0W	
F				
I-00001	FH04M	FH04M	0W	
F				
I-00001	0FH05	0FH05	0W	
F				
I-00001	FH05M	FH05M	0W	
F				
I-00001	0FH06	0FH06	0W	
F				
I-00001	0FH07	0FH07	0W	
F				
I-00001	0FH08	0FH08	0W	
F				
I-00001	FH08M	FH08M	0W	
F				
I-00001	0FH09	0FH09	0W	
F				
I-00001	FH09M	FH09M	0W	
F				
I-00001	0FH10	0FH10	0W	
F				
I-00001	0FH11	0FH11	0W	
F				
I-00001	0FHD1	0FHD1	0W	
F				
I-00001	FHD1M	FHD1M	0W	
F				
I-00001	0FHD2	0FHD2	0W	
F				
I-00001	FHD2M	FHD2M	0W	
F				
I-00001	0FID1	0FID1	0W	
F				
I-00001	FID1M	FID1M	0W	
F				
I-00001	0FID2	0FID2	0W	

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F				
I-00001	FID2M	FID2M	0W	
F				
I-00001	0FJ01	0FJ01	0W	
F				
I-00001	FJ01M	FJ01M	0W	
F				
I-00001	0FJ02	0FJ02	0W	
F				
I-00001	0FK01	0FK01	0W	
F				
I-00001	FK01M	FK01M	0W	
F				
I-00001	0FK02	0FK02	0W	
F				
I-00001	FK02M	FK02M	0W	
F				
I-00001	0FK04	0FK04	0W	
F				
I-00001	FK04M	FK04M	0W	
F				
I-00001	0FK07	0FK07	0W	
F				
I-00001	FK07M	FK07M	0W	
F				
I-00001	0FK08	0FK08	0W	
F				
I-00001	FK08M	FK08M	0W	
F				
I-00001	0FK09	0FK09	0W	
F				
I-00001	0FK10	0FK10	0W	
F				
I-00001	FK10M	FK10M	0W	
F				
I-00001	0FK11	0FK11	0W	
F				
I-00001	FK11M	FK11M	0W	
F				
I-00001	0FK12	0FK12	0W	
F				
I-00001	0FK13	0FK13	0W	
F				
I-00001	FK13M	FK13M	0W	
F				
I-00001	0FK14	0FK14	0W	
F				
I-00001	0FL01	0FL01	0W	
F				
I-00001	FL01M	FL01M	0W	
F				
I-00001	0FL02	0FL02	0W	

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F				
I-00001	FL02M	FL02M	0W	
F				
I-00001	0FL03	0FL03	0W	
F				
I-00001	FL03M	FL03M	0W	
F				
I-00001	0FM01	0FM01	0W	
F				
I-00001	0FMD1	0FMD1	0W	
F				
I-00001	0FP01	0FP01	0W	
F				
I-00001	0FQD1	0FQD1	0W	
F				
I-00001	FQD1M	FQD1M	0W	
F				
I-00001	0FRD1	0FRD1	0W	
F				
I-00001	FRD1M	FRD1M	0W	
F				
I-00001	0FSD1	0FSD1	0W	
F				
I-00001	FSD1M	FSD1M	0W	
F				
I-00001	0HA04	0HA04	0W	
F				
I-00001	0HA05	0HA05	0W	
F				
I-00001	0HAD1	0HAD1	0W	
F				
I-00001	0HAD2	0HAD2	0W	
F				
I-00001	0HB01	0HB01	0W	
F				
I-00001	0HB02	0HB02	0W	
F				
I-00001	0HB03	0HB03	0W	
F				
I-00001	0HB04	0HB04	0W	
F				
I-00001	0HB06	0HB06	0W	
F				
I-00001	0HB07	0HB07	0W	
F				
I-00001	0HB08	0HB08	0W	
F				
I-00001	0HB09	0HB09	0W	
F				
I-00001	0HB10	0HB10	0W	
F				
I-00001	0HBD1	0HBD1	0W	

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F				
I-00001	0HBD2	0HBD2	0W	
F				
I-00001	0HC01	0HC01	0W	
F				
I-00001	0HC02	0HC02	0W	
F				
I-00001	0HC05	0HC05	0W	
F				
I-00001	0HD01	0HD01	0W	
F				
I-00001	0HD02	0HD02	0W	
F				
I-00001	0HE01	0HE01	0W	
F				
I-00001	0HE02	0HE02	0W	
F				
I-00001	0HED1	0HED1	0W	
F				
I-00001	0HL01	0HL01	0W	
F				
I-00001	0HLD1	0HLD1	0W	
F				
I-00001	0JB01	0JB01	0W	
F				
I-00001	0JC01	0JC01	0W	
F				
I-00001	0JC02	0JC02	0W	
F				
I-00001	0JDD1	0JDD1	0W	
F				
I-00001	0JED1	0JED1	0W	
F				
I-00001	0JF01	0JF01	0W	
F				
I-00001	0JG01	0JG01	0W	
F				
I-00001	0JG02	0JG02	0W	
F				
I-00001	0JH01	0JH01	0W	
F				
I-00001	0JHD1	0JHD1	0W	
F				
I-00001	0JI01	0JI01	0W	
F				
I-00001	0JI02	0JI02	0W	
F				
I-00001	0JID1	0JID1	0W	
F				
I-00001	0JK01	0JK01	0W	
F				
I-00001	0JK02	0JK02	0W	

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F				
I-00001	OJK03	OJK03	0W	
F				
I-00001	OJK04	OJK04	0W	
F				
I-00001	OJK06	OJK06	0W	
F				
I-00001	OJL01	OJL01	0W	
F				
I-00001	OJLD1	OJLD1	0W	
F				
I-00001	OJM01	OJM01	0W	
F				
I-00001	OJM02	OJM02	0W	
F				
I-00001	OJN01	OJN01	0W	
F				
I-00001	OJN02	OJN02	0W	
F				
I-00001	OJN03	OJN03	0W	
F				
I-00001	OJN04	OJN04	0W	
F				
I-00001	OJN05	OJN05	0W	
F				
I-00001	OJND1	OJND1	0W	
F				
I-00001	OJND2	OJND2	0W	
F				
I-00001	OJND3	OJND3	0W	
F				
I-00001	OJO01	OJO01	0W	
F				
I-00001	JO01M	JO01M	0W	
F				
I-00001	OJO02	OJO02	0W	
F				
I-00001	JO02M	JO02M	0W	
F				
I-00001	OJO03	OJO03	0W	
F				
I-00001	JO03M	JO03M	0W	
F				
I-00001	OJO04	OJO04	0W	
F				
I-00001	JO04M	JO04M	0W	
F				
I-00001	OJO06	OJO06	0W	
F				
I-00001	JO06M	JO06M	0W	
F				
I-00001	OJP01	OJP01	0W	

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F				
I-00001	0JQ01	0JQ01	0W	
F				
I-00001	JQ01M	JQ01M	0W	
F				
I-00001	0JQ02	0JQ02	0W	
F				
I-00001	0JR01	0JR01	0W	
F				
I-00001	JR01M	JR01M	0W	
F				
I-00001	0JR02	0JR02	0W	
F				
I-00001	JR02M	JR02M	0W	
F				
I-00001	0JR03	0JR03	0W	
F				
I-00001	0JR04	0JR04	0W	
F				
I-00001	0JRD1	0JRD1	0W	
F				
I-00001	0JS01	0JS01	0W	
F				
I-00001	JS01M	JS01M	0W	
F				
I-00001	0JS02	0JS02	0W	
F				
I-00001	JS02M	JS02M	0W	
F				
I-00001	0JS03	0JS03	0W	
F				
I-00001	0JS04	0JS04	0W	
F				
I-00001	JS04M	JS04M	0W	
F				
I-00001	0JS05	0JS05	0W	
F				
I-00001	JS05M	JS05M	0W	
F				
I-00001	0JS06	0JS06	0W	
F				
I-00001	0NB02	0NB02	0W	
F				
I-00001	0NB03	0NB03	0W	
F				
I-00001	0ND02	0ND02	0W	
F				
I-00001	0ND03	0ND03	0W	
F				
I-00001	0ND09	0ND09	0W	
F				
I-00001	0ND11	0ND11	0W	

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F				
I-00001	0ND12	0ND12	0W	
F				
I-00001	0ND13	0ND13	0W	
F				
I-00001	0NE01	0NE01	0W	
F				
I-00001	0NE02	0NE02	0W	
F				
I-00001	0NE03	0NE03	0W	
F				
I-00001	0NE06	0NE06	0W	
F				
I-00001	0NE11	0NE11	0W	
F				
I-00001	0NE12	0NE12	0W	
F				
I-00001	0NE13	0NE13	0W	
F				
I-00001	0NE14	0NE14	0W	
F				
I-00001	0NE15	0NE15	0W	
F				
I-00001	0NF02	0NF02	0W	
F				
I-00001	0NF03	0NF03	0W	
F				
I-00001	0NF04	0NF04	0W	
F				
I-00001	0NFD2	0NFD2	0W	
F				
I-00001	0NG01	0NG01	0W	
F				
I-00001	VRTO1	VRTO1	0W	
F				
I-00001	VRTO2	VRTO2	0W	
F				
I-00001	VRTO3	VRTO3	0W	
F				
I-00001	ACID1	ACID1	0W	
F				
I-00001	ACID2	ACID2	0W	
F				
I-00001	0AE04	0AE04	0W	
F				
I-00001	0BA04	0BA04	0W	
F				
I-00001	BASE1	BASE1	0W	
F				
I-00001	BASE2	BASE2	0W	
F				
I-00001	BASE3	BASE3	0W	

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F				
I-00001	0BP01	0BP01	0W	
F				
I-00001	0BT01	0BT01	0W	
F				
I-00001	0BX01	0BX01	0W	
F				
I-00001	0CB06	0CB06	0W	
F				
I-00001	0CD01	0CD01	0W	
F				
I-00001	0CD02	0CD02	0W	
F				
I-00001	0COD1	0COD1	0W	
F				
I-00001	0DC02	0DC02	0W	
F				
I-00001	0DW03	0DW03	0W	
F				
I-00001	0FE05	0FE05	0W	
F				
I-00001	0FF04	0FF04	0W	
F				
I-00001	0FF05	0FF05	0W	
F				
I-00001	0FF06	0FF06	0W	
F				
I-00001	0FK15	0FK15	0W	
F				
I-00001	0FP02	0FP02	0W	
F				
I-00001	0FQD2	0FQD2	0W	
F				
I-00001	0FUD1	0FUD1	0W	
F				
I-00001	0FUD2	0FUD2	0W	
F				
I-00001	0HE03	0HE03	0W	
F				
I-00001	0HE04	0HE04	0W	
F				
I-00001	0HL03	0HL03	0W	
F				
I-00001	0HL04	0HL04	0W	
F				
I-00001	0HMD1	0HMD1	0W	
F				
I-00001	0JAD1	0JAD1	0W	
F				
I-00001	0JED2	0JED2	0W	
F				
I-00001	0JN06	0JN06	0W	

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F				
I-00001	0JP02	0JP02	0W	
F				
I-00001	0JQ03	0JQ03	0W	
F				
I-00001	0JQ04	0JQ04	0W	
F				
I-00001	0JQ05	0JQ05	0W	
F				
I-00001	0JS07	0JS07	0W	
F				
I-00001	0JX01	0JX01	0W	
F				
I-00001	0JZ01	0JZ01	0W	
F				
I-00001	SOLV1	SOLV1	0W	
F				
I-00001	SOLV2	SOLV2	0W	
F				
I-00001	0ND15	0ND15	0W	
F				
I-00001	0ND17	0ND17	0W	
F				
I-00001	0NFD1	0NFD1	0W	
F				
I-00001	0AE05	0AE05	0W	
F				
I-00001	0AE06	0AE06	0W	
F				
I-00001	0AED3	0AED3	0W	
F				
I-00001	0BJ01	0BJ01	0W	
F**				
I-00001	0BJ02	0BJ02	0W	
F				
I-00001	0BK01	0BK01	0W	
F				
I-00001	0BK02	0BK02	0W	
F				
I-00001	0BK03	0BK03	0W	
F				
I-00001	0BK04	0BK04	0W	
F				
I-00001	0BK06	0BK06	0W	
F				
I-00001	0BK07	0BK07	0W	
F				
I-00001	0BKD3	0BKD3	0W	
F				
I-00001	0DGD3	0DGD3	0W	
F				
I-00001	0FF03	0FF03	0W	

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F				
I-00001	0FWD1	0FWD1	0W	
F				
I-00001	0HB11	0HB11	0W	
F				
I-00001	0HB12	0HB12	0W	
F				
I-00001	0HE05	0HE05	0W	
F				
I-00001	0HE06	0HE06	0W	
F				
I-00001	0JED3	0JED3	0W	
F				
I-00001	0JJ01	0JJ01	0W	
F				
I-00001	0JJ02	0JJ02	0W	
F				
I-00001	0JJ03	0JJ03	0W	
F				
I-00001	0JJ05	0JJ05	0W	
F				
I-00001	0JJ06	0JJ06	0W	
F				
I-00001	0JJ07	0JJ07	0W	
F				
I-00001	0JKD1	0JKD1	0W	
F				
I-00001	0JL02	0JL02	0W	
F				
I-00001	0JLD2	0JLD2	0W	
F				
I-00001	0KMD2	0KMD2	0W	
F				
I-00001	0NE16	0NE16	0W	
F				
I-00001	BC01M	BC01M	0W	
F				
I-00001	BCD1M	BCD1M	0W	
F				
I-00001	BDD1M	BDD1M	0W	
F				
I-00001	CAUSA	CAUSA	0W	
F				
I-00001	CAUSB	CAUSB	0W	
F				
I-00001	CAUSC	CAUSC	0W	
F				
I-00001	CB01M	CB01M	0W	
F				
I-00001	CB01T	CB01T	0W	
F				
I-00001	CB03C	CB03C	0W	

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F				
I-00001	CB03M	CB03M	0W	
F				
I-00001	CB03T	CB03T	0W	
F				
I-00001	CBD1C	CBD1C	0W	
F				
I-00001	CBD1M	CBD1M	0W	
F				
I-00001	CBD1T	CBD1T	0W	
F				
I-00001	FE01M	FE01M	0W	
F				
I-00001	FE03M	FE03M	0W	
F				
I-00001	FE04M	FE04M	0W	
F				
I-00001	FF02M	FF02M	0W	
F				
I-00001	FF03M	FF03M	0W	
F				
I-00001	FFD1M	FFD1M	0W	
F				
I-00001	FG01M	FG01M	0W	
F				
I-00001	FH06M	FH06M	0W	
F				
I-00001	FH07M	FH07M	0W	
F				
I-00001	FH10M	FH10M	0W	
F				
I-00001	FH11M	FH11M	0W	
F				
I-00001	FK14M	FK14M	0W	
F				
I-00001	FM01M	FM01M	0W	
F				
I-00001	FMD1M	FMD1M	0W	
F				
I-00001	FP01M	FP01M	0W	
F				
I-00001	FQD1T	FQD1T	0W	
F				
I-00001	JB01M	JB01M	0W	
F				
I-00001	JED3M	JED3M	0W	
F				
I-00001	JG01M	JG01M	0W	
F				
I-00001	JG01T	JG01T	0W	
F				
I-00001	JG02M	JG02M	0W	

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F				
I-00001	JH01M	JH01M	0W	
F				
I-00001	JI01M	JI01M	0W	
F				
I-00001	JI02M	JI02M	0W	
F				
I-00001	JID1M	JID1M	0W	
F				
I-00001	JK01M	JK01M	0W	
F				
I-00001	JK02M	JK02M	0W	
F				
I-00001	JK03M	JK03M	0W	
F				
I-00001	JK04M	JK04M	0W	
F				
I-00001	JK06M	JK06M	0W	
F				
I-00001	JKD1M	JKD1M	0W	
F				
I-00001	JL01M	JL01M	0W	
F				
I-00001	JL02M	JL02M	0W	
F				
I-00001	JLD1M	JLD1M	0W	
F				
I-00001	JLD2M	JLD2M	0W	
F				
I-00001	JLD2T	JLD2T	0W	
F				
I-00001	JM01M	JM01M	0W	
F				
I-00001	JM02M	JM02M	0W	
F				
I-00001	JN01M	JN01M	0W	
F				
I-00001	JN02M	JN02M	0W	
F				
I-00001	JN03M	JN03M	0W	
F				
I-00001	JN04M	JN04M	0W	
F				
I-00001	JN05M	JN05M	0W	
F				
I-00001	JND1M	JND1M	0W	
F				
I-00001	JND1T	JND1T	0W	
F				
I-00001	JND2M	JND2M	0W	
F				
I-00001	JND2T	JND2T	0W	

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F				
I-00001	JND3M	JND3M	0W	
F				
I-00001	JP01M	JP01M	0W	
F				
I-00001	JQ02M	JQ02M	0W	
F				
I-00001	JR03M	JR03M	0W	
F				
I-00001	JR04M	JR04M	0W	
F				
I-00001	JRD1M	JRD1M	0W	
F				
I-00001	JS03M	JS03M	0W	
F				
I-00001	JS06M	JS06M	0W	
F				
I-00001	L3083	L3083	0W	
F				
I-00001	L3084	L3084	0W	
F				
I-00001	OCM02	OCM02	0W	
F				
I-00001	3ACID	3ACID	0W	
F				
I-00001	BASE6	BASE6	0W	
F				
I-00001	BASE5	BASE5	0W	
F				
I-00001	0AB06	0AB06	0W	
F				
I-00001	0AE07	0AE07	0W	
F				
I-00001	0BB04	0BB04	0W	
F				
I-00001	0BD02	0BD02	0W	
F				
I-00001	BD02M	BD02M	0W	
F				
I-00001	0BD03	0BD03	0W	
F				
I-00001	BD03M	BD03M	0W	
F				
I-00001	BD03T	BD03T	0W	
F				
I-00001	0BD04	0BD04	0W	
F				
I-00001	BD04M	BD04M	0W	
F				
I-00001	BD04T	BD04T	0W	
F				
I-00001	0BD05	0BD05	0W	

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F				
I-00001	BD05M	BD05M	0W	
F				
I-00001	0BKD2	0BKD2	0W	
F				
I-00001	BP01M	BP01M	0W	
F				
I-00001	0BP02	0BP02	0W	
F				
I-00001	BP02M	BP02M	0W	
F				
I-00001	0BP03	0BP03	0W	
F				
I-00001	BP03M	BP03M	0W	
F				
I-00001	0BP04	0BP04	0W	
F				
I-00001	BP04M	BP04M	0W	
F				
I-00001	0BP05	0BP05	0W	
F				
I-00001	0BQD1	0BQD1	0W	
F				
I-00001	BQD1M	BQD1M	0W	
F				
I-00001	0BR01	0BR01	0W	
F				
I-00001	BT01M	BT01M	0W	
F				
I-00001	BT01T	BT01T	0W	
F				
I-00001	0BW01	0BW01	0W	
F				
I-00001	CB06M	CB06M	0W	
F				
I-00001	0CB07	0CB07	0W	
F				
I-00001	0CB08	0CB08	0W	
F				
I-00001	0CD04	0CD04	0W	
F				
I-00001	0CE02	0CE02	0W	
F				
I-00001	CM02M	CM02M	0W	
F				
I-00001	0CN02	0CN02	0W	
F				
I-00001	CN02M	CN02M	0W	
F				
I-00001	0CN03	0CN03	0W	
F				
I-00001	CN03M	CN03M	0W	

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F				
I-00001	0CO01	0CO01	0W	
F				
I-00001	CO01T	CO01T	0W	
F				
I-00001	0CO02	0CO02	0W	
F				
I-00001	COD1M	COD1M	0W	
F				
I-00001	COD1T	COD1T	0W	
F				
I-00001	COD2M	COD2M	0W	
F				
I-00001	COD2T	COD2T	0W	
F				
I-00001	0CT01	0CT01	0W	
F				
I-00001	0CT02	0CT02	0W	
F				
I-00001	0CT03	0CT03	0W	
F				
I-00001	0DC03	0DC03	0W	
F				
I-00001	0DC04	0DC04	0W	
F				
I-00001	0DC05	0DC05	0W	
F				
I-00001	0DC06	0DC06	0W	
F				
I-00001	0DCD2	0DCD2	0W	
F				
I-00001	0DPD2	0DPD2	0W	
F				
I-00001	0DYD1	0DYD1	0W	
F				
I-00001	0DYD2	0DYD2	0W	
F				
I-00001	FE05M	FE05M	0W	
F				
I-00001	0FE06	0FE06	0W	
F				
I-00001	FE06M	FE06M	0W	
F				
I-00001	FF04M	FF04M	0W	
F				
I-00001	FF05M	FF05M	0W	
F				
I-00001	FF06M	FF06M	0W	
F				
I-00001	0FFD2	0FFD2	0W	
F				
I-00001	FFD2M	FFD2M	0W	

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F				
I-00001	0FG02	0FG02	0W	
F				
I-00001	FG02M	FG02M	0W	
F				
I-00001	0FG03	0FG03	0W	
F				
I-00001	FG03M	FG03M	0W	
F				
I-00001	0FHD3	0FHD3	0W	
F				
I-00001	FHD3M	FHD3M	0W	
F				
I-00001	0FHD4	0FHD4	0W	
F				
I-00001	FHD4M	FHD4M	0W	
F				
I-00001	0FHD5	0FHD5	0W	
F				
I-00001	FHD5M	FHD5M	0W	
F				
I-00001	FK15M	FK15M	0W	
F				
I-00001	FP02M	FP02M	0W	
F				
I-00001	0FP03	0FP03	0W	
F				
I-00001	FP03M	FP03M	0W	
F				
I-00001	0FP04	0FP04	0W	
F				
I-00001	FP04M	FP04M	0W	
F				
I-00001	FQD2M	FQD2M	0W	
F				
I-00001	FQD3M	FQD3M	0W	
F				
I-00001	FUD1M	FUD1M	0W	
F				
I-00001	FUD2M	FUD2M	0W	
F				
I-00001	0FUD4	0FUD4	0W	
F				
I-00001	FUD4M	FUD4M	0W	
F				
I-00001	0HH01	0HH01	0W	
F				
I-00001	0HH02	0HH02	0W	
F				
I-00001	0HM02	0HM02	0W	
F				
I-00001	0HM04	0HM04	0W	

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F**			
I-00001	0JAD2	0JAD2	0W
F			
I-00001	0JAD4	0JAD4	0W
F			
I-00001	JAD4M	JAD4M	0W
F			
I-00001	0JED4	0JED4	0W
F			
I-00001	0JJ04	0JJ04	0W
F			
I-00001	0JM03	0JM03	0W
F			
I-00001	JM03M	JM03M	0W
F			
I-00001	JN06M	JN06M	0W
F			
I-00001	0JN07	0JN07	0W
F			
I-00001	JN07M	JN07M	0W
F			
I-00001	JP02M	JP02M	0W
F			
I-00001	JQ03M	JQ03M	0W
F			
I-00001	JQ04M	JQ04M	0W
F			
I-00001	JS07M	JS07M	0W
F			
I-00001	0JWD1	0JWD1	0W
F			
I-00001	JWD1M	JWD1M	0W
F			
I-00001	JX01M	JX01M	0W
F			
I-00001	0JXD1	0JXD1	0W
F			
I-00001	JXD1M	JXD1M	0W
F			
I-00001	JZ01M	JZ01M	0W
F			
I-00001	0KY01	0KY01	0W
F			
I-00001	0KY03	0KY03	0W
F			
I-00001	0ND21	0ND21	0W
F			
I-00001	0ND22	0ND22	0W
F			
I-00001	0AE08	0AE08	0W
F			
I-00001	0BD06	0BD06	0W

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F				
I-00001	0BD07	0BD07	0W	
F				
I-00001	0BKD4	0BKD4	0W	
F				
I-00001	0BP06	0BP06	0W	
F				
I-00001	0BP07	0BP07	0W	
F				
I-00001	0BP08	0BP08	0W	
F				
I-00001	0CB09	0CB09	0W	
F				
I-00001	0CD05	0CD05	0W	
F				
I-00001	0CN04	0CN04	0W	
F				
I-00001	0CO03	0CO03	0W	
F				
I-00001	0CO04	0CO04	0W	
F				
I-00001	0CO05	0CO05	0W	
F				
I-00001	0CO06	0CO06	0W	
F				
I-00001	0CO07	0CO07	0W	
F				
I-00001	0CT04	0CT04	0W	
F				
I-00001	0DC07	0DC07	0W	
F				
I-00001	0DC08	0DC08	0W	
F				
I-00001	0DC09	0DC09	0W	
F				
I-00001	0DC10	0DC10	0W	
F				
I-00001	0DC11	0DC11	0W	
F				
I-00001	0DC12	0DC12	0W	
F				
I-00001	0DC13	0DC13	0W	
F				
I-00001	0DC14	0DC14	0W	
F				
I-00001	0DE03	0DE03	0W	
F				
I-00001	0DE04	0DE04	0W	
F				
I-00001	0DE05	0DE05	0W	
F				
I-00001	0DE06	0DE06	0W	

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F				
I-00001	0DE07	0DE07	0W	
F				
I-00001	0DE08	0DE08	0W	
F				
I-00001	0DE09	0DE09	0W	
F				
I-00001	0DG31	0DG31	0W	
F				
I-00001	0DW01	0DW01	0W	
F				
I-00001	0DYD3	0DYD3	0W	
F				
I-00001	0FA02	0FA02	0W	
F				
I-00001	0FCD1	0FCD1	0W	
F				
I-00001	0FCD2	0FCD2	0W	
F				
I-00001	0FCD3	0FCD3	0W	
F				
I-00001	0FE07	0FE07	0W	
F				
I-00001	0FE08	0FE08	0W	
F				
I-00001	0FG04	0FG04	0W	
F				
I-00001	0FHD6	0FHD6	0W	
F				
I-00001	0FHD7	0FHD7	0W	
F				
I-00001	0FID3	0FID3	0W	
F				
I-00001	0FK16	0FK16	0W	
F				
I-00001	0FK17	0FK17	0W	
F				
I-00001	0FL04	0FL04	0W	
F				
I-00001	0FL05	0FL05	0W	
F				
I-00001	0FO01	0FO01	0W	
F				
I-00001	0FP05	0FP05	0W	
F				
I-00001	0FP06	0FP06	0W	
F				
I-00001	0FQD3	0FQD3	0W	
F				
I-00001	0FQD4	0FQD4	0W	
F				
I-00001	0FQD5	0FQD5	0W	

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F				
I-00001	0FRD2	0FRD2	0W	
F				
I-00001	0FUD5	0FUD5	0W	
F				
I-00001	0FY01	0FY01	0W	
F				
I-00001	0HM05	0HM05	0W	
F				
I-00001	0HM06	0HM06	0W	
F				
I-00001	0JA01	0JA01	0W	
F				
I-00001	0JED5	0JED5	0W	
F				
I-00001	0JED6	0JED6	0W	
F				
I-00001	0JED7	0JED7	0W	
F				
I-00001	0JHD2	0JHD2	0W	
F				
I-00001	0JK07	0JK07	0W	
F				
I-00001	0JK08	0JK08	0W	
F				
I-00001	0JKD2	0JKD2	0W	
F				
I-00001	0JN08	0JN08	0W	
F				
I-00001	BC02M	BC02M	0W	
F				
I-00001	BD02T	BD02T	0W	
F				
I-00001	BD06M	BD06M	0W	
F				
I-00001	BD06T	BD06T	0W	
F				
I-00001	BD07M	BD07M	0W	
F				
I-00001	BD07T	BD07T	0W	
F				
I-00001	BP05M	BP05M	0W	
F				
I-00001	BP06M	BP06M	0W	
F				
I-00001	BP07M	BP07M	0W	
F				
I-00001	BP08M	BP08M	0W	
F				
I-00001	BR01M	BR01M	0W	
F				
I-00001	CB03D	CB03D	0W	

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F				
I-00001	CB08M	CB08M	0W	
F				
I-00001	CBD1D	CBD1D	0W	
F				
I-00001	CN04M	CN04M	0W	
F				
I-00001	CO01M	CO01M	0W	
F				
I-00001	CO02M	CO02M	0W	
F				
I-00001	CO02T	CO02T	0W	
F				
I-00001	CO03M	CO03M	0W	
F				
I-00001	CO03T	CO03T	0W	
F				
I-00001	CO04M	CO04M	0W	
F				
I-00001	CO04T	CO04T	0W	
F				
I-00001	CO05M	CO05M	0W	
F				
I-00001	CO05T	CO05T	0W	
F				
I-00001	CO06M	CO06M	0W	
F				
I-00001	CO06T	CO06T	0W	
F				
I-00001	CO07M	CO07M	0W	
F				
I-00001	CO07T	CO07T	0W	
F				
I-00001	FA02M	FA02M	0W	
F				
I-00001	FCD1M	FCD1M	0W	
F				
I-00001	FCD2M	FCD2M	0W	
F				
I-00001	FCD3M	FCD3M	0W	
F				
I-00001	FE04T	FE04T	0W	
F				
I-00001	FE07M	FE07M	0W	
F				
I-00001	FE08M	FE08M	0W	
F				
I-00001	FG04M	FG04M	0W	
F				
I-00001	FID3M	FID3M	0W	
F				
I-00001	FK16M	FK16M	0W	

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F				
I-00001	FK17M	FK17M	0W	
F				
I-00001	FL04M	FL04M	0W	
F				
I-00001	FL05M	FL05M	0W	
F				
I-00001	FO01M	FO01M	0W	
F				
I-00001	FP05M	FP05M	0W	
F				
I-00001	FP06M	FP06M	0W	
F				
I-00001	FQD4M	FQD4M	0W	
F				
I-00001	FQD5M	FQD5M	0W	
F				
I-00001	FRD2M	FRD2M	0W	
F				
I-00001	FUD5M	FUD5M	0W	
F				
I-00001	JG01C	JG01C	0W	
F				
I-00001	JG02T	JG02T	0W	
F				
I-00001	JK07M	JK07M	0W	
F				
I-00001	JK08M	JK08M	0W	
F				
I-00001	JKD2M	JKD2M	0W	
F				
I-00001	JN08M	JN08M	0W	
F				
I-00001	JQ05M	JQ05M	0W	
F				
I-00001	JX01T	JX01T	0W	
F				
I-00001	0DQ03	0DQ03	0W	
F***				
I-00001	0GA04	0GA04	0W	
F***				
I-00001	0GA05	0GA05	0W	
F***				
I-00001	0GAD2	0GAD2	0W	
F***				
I-00001	0GB01	0GB01	0W	
F***				
I-00001	0GB02	0GB02	0W	
F***				
I-00001	0GB03	0GB03	0W	
F***				
I-00001	0GB04	0GB04	0W	

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F***			
I-00001	0GB06	0GB06	0W
F***			
I-00001	0GB07	0GB07	0W
F***			
I-00001	0GB08	0GB08	0W
F***			
I-00001	0GB09	0GB09	0W
F***			
I-00001	0GB10	0GB10	0W
F***			
I-00001	0GB11	0GB11	0W
F***			
I-00001	0GB12	0GB12	0W
F***			
I-00001	0GBD1	0GBD1	0W
F***			
I-00001	0GBD2	0GBD2	0W
F***			
I-00001	0GC06	0GC06	0W
F***			
I-00001	0GL01	0GL01	0W
F***			
I-00001	0GL03	0GL03	0W
F***			
I-00001	0GL04	0GL04	0W
F***			
I-00001	0GLD1	0GLD1	0W
F***			
I-00001	0GM02	0GM02	0W
F***			
I-00001	0GM05	0GM05	0W
F***			
I-00001	0GM06	0GM06	0W
F***			
I-00001	0GMD1	0GMD1	0W
F***			
I-00001	0HE07	0HE07	0W
F***			
I-00001	0JC03	0JC03	0W
F***			
I-00001	0KK72	0KK72	0W
F***			
I-00001	0KK73	0KK73	0W
F***			
I-00001	BW01M	BW01M	0W
F***			
I-00001	FY01M	FY01M	0W
F***			
I-00001	JF01M	JF01M	0W
F***			
I-00001	JHD1M	JHD1M	0W

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F***			
I-00001	JHD2M	JHD2M	0W
F***			
I-00001	MSCAL	MSCAL	0W
F***			
I-00001	MSCGE	MSCGE	0W
F***			
I-00001	0JF02	0JF02	0W
F***			
I-00001	JF02M	JF02M	0W
F***			
I-00001	0JC04	0JC04	0W
F***			
I-00001	0FHD8	0FHD8	0W
F***			
I-00001	FHD8M	FHD8M	0W
F***			
I-00001	0FL08	0FL08	0W
F***			
I-00001	FL08M	FL08M	0W
F***			
I-00001	0CD06	0CD06	0W
F***			
K-00001	118XA	118XA	C4
P			
K-00001	165AB	165AB	C4
P			
K-00001	185AA	185AA	C4
P			
K-00001	377AA	377AA	C4
P			
K-00001	387AA	387AA	C4
P			
K-00001	412AE	412AE	C4
P			
K-00001	412AH	412AH	C4
P			
K-00001	412AL	412AL	C4
P			
K-00001	472AA	472AA	C4
P			
K-00001	504AA	504AA	C4
P			
K-00001	557AA	557AA	C4
P			
K-00001	592AA	592AA	C4
P			
K-00001	592AB	592AB	C4
P			
K-00001	604AA	604AA	C4
P			
K-00001	604AB	604AB	C4

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P				
K-00001	608AA	608AA	C4	
P				
K-00001	608AB	608AB	C4	
P				
K-00001	827AB	827AB	C4	
P				
K-00001	827AC	827AC	C4	
P				
K-00001	827AD	827AD	C4	
P				
K-00001	827AE	827AE	C4	
P				
K-00001	827AF	827AF	C4	
P				
K-00001	8570A	8570A	C4	
P				
K-00001	8570B	8570B	C4	
P				
K-00001	BAK01	BAK01	C4	
P				
K-00001	CLN02	CLN02	C4	
P				
K-00001	DEV01	DEV01	C4	
P				
K-00001	MCU01	MCU01	C4	
P				
K-00001	OXD01	OXD01	C4	
P				
K-00001	OXD02	OXD02	C4	
P				
K-00001	PLT01	PLT01	C4	
P				
K-00001	RFL02	RFL02	C4	
P				
K-00001	RIE01	RIE01	C4	
P				
K-00001	RIE02	RIE02	C4	
P				
K-00001	SPT01	SPT01	C4	
P				
K-00001	BCONC	BCONC	C4	
P				
K-00001	BOXID	BOXID	C4	
P				
K-00001	533AA	533AA	C4	
P				
K-00001	324AA	324AA	C4	
P				
K-00001	GND01	GND01	C4	
P				
K-00001	APLY2	APLY2	C4	

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P				
K-00001	150AF	150AF	C4	
P				
K-00001	1W007	1W007	C4	
P				
K-00001	AAD01	AAD01	C4	
P				
K-00001	ASH03	ASH03	C4	
P				
K-00001	BOND2	BOND2	C4	
P				
K-00001	CMP02	CMP02	C4	
P				
K-00001	ETCH1	ETCH1	C4	
P				
K-00001	ETCH2	ETCH2	C4	
P				
K-00001	PCVD2	PCVD2	C4	
P				
K-00001	PLT04	PLT04	C4	
P				
K-00001	STR04	STR04	C4	
P				
K-00001	PLTE1	PLTE1	C4	
P				
K-00001	AAD02	AAD02	C4	
P				
K-00001	ETCH3	ETCH3	C4	
P				
K-00001	GLCL1	GLCL1	C4	
P				
K-00001	MAC01	MAC01	C4	
P				
K-00001	PBO01	PBO01	C4	
P				
K-00001	PLT05	PLT05	C4	
P				
K-00001	STR01	STR01	C4	
P				
K-00001	STR05	STR05	C4	
P				
K-00001	BGAAT	BGAAT	C4	
P***				
K-00001	BGAST	BGAST	C4	
P***				
K-00001	BOND4	BOND4	C4	
P***				
K-00001	CLEN2	CLEN2	C4	
P***				
K-00001	CONC1	CONC1	C4	
P***				
K-00001	CURE1	CURE1	C4	

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P***			
K-00001	CURE2	CURE2	C4
P***			
K-00001	CURE3	CURE3	C4
P***			
K-00001	DICE1	DICE1	C4
P***			
K-00001	DICE2	DICE2	C4
P***			
K-00001	DICE4	DICE4	C4
P***			
K-00001	DMR01	DMR01	C4
P***			
K-00001	FIAS1	FIAS1	C4
P***			
K-00001	FLCT1	FLCT1	C4
P***			
K-00001	FSPR1	FSPR1	C4
P***			
K-00001	OCB01	OCB01	C4
P***			
K-00001	OVMOL	OVMOL	C4
P***			
K-00001	OXID1	OXID1	C4
P***			
K-00001	PICK1	PICK1	C4
P***			
K-00001	PLS01	PLS01	C4
P***			
K-00001	PRINT	PRINT	C4
P***			
K-00001	RELSE	RELSE	C4
P***			
K-00001	REPAR	REPAR	C4
P***			
K-00001	RFL03	RFL03	C4
P***			
K-00001	RFL04	RFL04	C4
P***			
K-00001	RIBBD	RIBBD	C4
P***			
K-00001	SHADM	SHADM	C4
P***			
K-00001	SHADT	SHADT	C4
P***			
K-00001	SIPUC	SIPUC	C4
P***			
K-00001	STECL	STECL	C4
P***			
K-00001	TSBD1	TSBD1	C4
P***			
K-00001	UFD01	UFD01	C4

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P***	K-00001	WBND1	WBND1	C4
P***	K-00001	TSBDH	TSBDH	C4
P***	K-00001	FIASH	FIASH	C4
P***	K-00001	FOUPH	FOUPH	C4P***

- * Source no longer capable of firing
- ** Process has been removed
- *** New

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 23: Progress Reports Due Semiannually
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 23.1:

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 2-2: Compliance Certification
Effective between the dates of 04/01/2020 and 05/07/2022

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

Replaces Condition(s) 24

Item 2-2.1:

The Compliance Certification activity will be performed for the Facility.

Item 2-2.2:

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

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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 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;

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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.

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

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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.

GLOBALFOUNDRIES is anticipating the need to perform 6NYCRR part 212, (DARI) dispersion modeling to support the changes it expects to make relative to the new Operational Flexibility condition. To that end we are including a generic Dispersion Modeling Protocol for NYSDEC review and approval. As required by B.2 above GLOBALFOUNDRIES 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 modeling will also be included, (when required) with the notification of the proposed change.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Non Applicable requirements
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 25.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

40 CFR Part 60, Subpart Dc

Reason: Emission Unit (A-00001) Boiler 8 (Emission Source ID 00008) was installed after 6/9/89, however, this boiler has been physically modified making it incapable of firing fuel oil no. 6 or any fuel oil.

40 CFR Part 63, Subpart BBBBB

Reason: The facility is not a major source of hazardous air pollutants (HAP).

Condition 1-3: Facility Permissible Emissions
Effective between the dates of 11/18/2019 and 05/07/2022

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Applicable Federal Requirement:6 NYCRR 201-7.1

Item 2-3.1:

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:

per year	CAS No: 007446-09-5 (From Mod 2)	PTE: 26,000 pounds
	Name: SULFUR DIOXIDE	
per year	CAS No: 0NY210-00-0 (From Mod 2)	PTE: 190,000 pounds
	Name: OXIDES OF NITROGEN	

Condition 1-4: Capping Monitoring Condition
Effective between the dates of 11/18/2019 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 1-4.1:

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

6 NYCRR Subpart 201-6

Item 1-4.2:

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

Item 1-4.3:

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

Item 1-4.4:

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

Item 1-4.5:

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

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Item 1-4.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 1-4.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

GLOBALFOUNDRIES is capping its annual sulfur dioxide (SO₂) to become a minor source for SO₂. GLOBALFOUNDRIES shall monitor the monthly quantities of fuel burned by each combustion source and Building 325 (B325) SO₂ dechlorination usage. To calculate SO₂ emission, the following formula shall be used:

$$\{N(0.6) + F6(157xS) + F2(142xS) + G1(1.01xS) + G2(0.29) + U\} < 26000 \text{ lbs/yr SO}_2 \text{ emission.}$$

Where:

N= natural gas used in boilers (EU: A-00001), point-of-use (POU) gas abatement, thermal oxidizers and building 325 exempt boiler (B325) in MMSCF/yr
0.6 lb/MMSCF - AP-42 Table 1.4-2 SO₂ emission factor;

F6 = fuel oil #6 used in boilers (EU: A-00001) in 10³gals/yr
157xS lb/10³ gal - AP-42 Table 1.3-1 SO₂ emission factor.
S indicates the weight % of sulfur in the oil;

F2 = fuel oil #2 used in exempt boiler (B304) in 10³gals/yr
142xS lb/10³ gal - AP-42 Table 1.3-1 SO₂emission factor.
S indicates the weight % of sulfur in the oil;

G1 = 12 large exempt emergency generators; emission based on total MMBTU/hr
1.01xS lb/MMBTU - AP-42 Table 3.4-1 SO₂ emission factor. S indicates the weight % of sulfur in the oil;

G2 = 3 small exempt emergency generators; emission based on total MMBTU/hr
0.29 lb/MMBTU - AP-42, Table 3.3-1 SO₂ emission factor;

(emergency generators limited to 100 hrs/yr)

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U = lbs/yr SO₂ used in B325.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 13 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2020.

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

Condition 1-5: Capping Monitoring Condition
Effective between the dates of 11/18/2019 and 05/07/2022

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 1-5.1:

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 1-5.2:

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

Item 1-5.3:

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 1-5.4:

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

Item 1-5.5:

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 1-5.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

Permit ID: 3-1328-00025/01028

Facility DEC ID: 3132800025

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

Item 1-5.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

GLOBALFOUNDRIES is capping its annual oxides of nitrogen (NO_x) emission at 95 tons per year (tons/yr) to become a minor source for NO_x. GLOBALFOUNDRIES shall monitor the monthly quantities of fuel burned by each combustion source and building 323 (B323) Nitric Oxide usage in the fabrication process. To calculate NO_x emission, the following formula shall be used:

$$\{N(50) + N1(100) + F6(55) + F2(20) + G1(3.2) + G2(4.41) + U\} < 190,000 \text{ lbs/yr NO}_x \text{ emission.}$$

Where:

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

F2 = fuel oil #2 fused in exempt boiler (B304) in 10³gals/yr
20 lb/10³ gal - AP-42 Table 1.3-1 NO_x emission factor;

G1 = 12 large exempt emergency generators; emission based on engines total MMBTU/hr
3.2 lb/MMBTU - AP-42 Table 3.4-1 NO_x 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 NO_x emission factor;

(emergency generators limited to 100 hrs/yr)

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

Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 95 tons per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2020.
 Subsequent reports are due every 12 calendar month(s).

Condition 51: Visible Emissions Limited
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 211.2

Item 51.1:
 Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 27: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 27.1:
 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 27.2:
 Compliance Certification shall include the following monitoring:

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

Monitoring Description:
 GLOBALFOUNDRIES shall not 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. GlobalFoundries shall maintain a comprehensive inventory record of emission points subject to this requirement as well as documentation of compliance as appropriate. All record shall remain on site for five (5) years and be available to the Department upon its

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

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: Methon 9
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2017.
 Subsequent reports are due every 6 calendar month(s).

Condition 1-6: Compliance Certification
Effective between the dates of 11/18/2019 and 05/07/2022

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

Item 1-6.1:

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
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 1-6.2:

Compliance Certification shall include the following monitoring:

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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 GLOBALFOUNDRIES to conduct future performance testing to verify VOC capture and control efficiencies.

GLOBALFOUNDRIES 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 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.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2020.

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

Condition 1-7: Compliance Certification**Effective between the dates of 11/18/2019 and 05/07/2022****Applicable Federal Requirement: 6 NYCRR 212-2.1 (b)****Replaces Condition(s) 32****Item 1-7.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00001

Emission Point: 00ACD

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Process: 0WF

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 1-7.2:

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 (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 GLOBALFOUNDRIES to meet Table 4 at 90% degree of air cleaning. At the current ERP, GLOBALFOUNDRIES is required to meet the short term and annual guideline concentration (SGC/AGC) at the fence line of the facility. GLOBALFOUNDRIES performed refined AERMOD modeling demonstrating compliance with the respective SGC but not with the AGC. The modeling was approved by the Department.

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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), GLOBALFOUNDRIES 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. GLOBALFOUNDRIES 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, GLOBALFOUNDRIES demonstrated it met the 0.42 ppmv even with mass loading less than 0.1 lb/hr.

GLOBALFOUNDRIES 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.

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

Reference Test Method: EPA's Method 26A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/2020.

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

Condition 1-8: Compliance Certification

Effective between the dates of 11/18/2019 and 05/07/2022

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

Replaces Condition(s) 31

Item 1-8.1:

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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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 1-8.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

GLOBALFOUNDRIES 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 backup scrubber. The acid scrubbers in 323 and 323 annex buildings 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 1-9: Compliance Certification
Effective between the dates of 11/18/2019 and 05/07/2022

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

Replaces Condition(s) 32

Item 1-9.1:

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 1-9.2:

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 (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

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require GLOBALFOUNDRIES to meet Table 4 at 90% degree of air cleaning. At the current ERP, GLOBALFOUNDRIES is required to meet the short term and annual guideline concentration (SGC/AGC) at the fence line of the facility. GLOBALFOUNDRIES 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), GLOBALFOUNDRIES 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. GLOBALFOUNDRIES 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, GLOBALFOUNDRIES demonstrated it met the 0.42 ppmv even with mass loading less than 0.1 lb/hr.

GLOBALFOUNDRIES 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.

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

Reference Test Method: EPA's Method 26A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/2020.

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

Condition 30: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 30.1:

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

Emission Unit: I-00001
Process: 0WF

Regulated Contaminant(s):	
N,N,N-TRIMETHYL-HYDROXIDE	CAS No: 000075-59-2 METHANAMINIUM
	CAS No: 007803-51-2 PHOSPHINE
	CAS No: 010102-44-0 NITROGEN DIOXIDE
	CAS No: 019287-45-7 DIBORANE
(4+)SALT	CAS No: 003275-24-9 METHANAMINE, N-METHYL TITANIUM
	CAS No: 007782-41-4 FLUORINE

Item 30.2:

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.

Nitrogen Dioxide is a criteria contaminant and has been assigned an Environmental Rating of A with ERP of less than 1 lbs/hr and must demonstrate that the maximum offsite air concentration is less than the National Ambient Air Quality Standard (NAAQS) - Table 3.

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
- Fluorine
- Diborane

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Enriched Diborane
 Phosphine

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. GLOBALFOUNDRIES 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. The modeling was approved by the Department on 12/06/2016.

GLOBALFOUNDRIES 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 7/30/2017.

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

Condition 33: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 33.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Solid particulate emissions shall not exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis.

GLOBALFOUNDRIES shall maintain a comprehensive inventory record of emission points subject to this requirement as

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well as documentation of compliance as appropriate. All records shall be available to the Department upon request.

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

Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.050 grains per dscf
 Reference Test Method: EPA Method 5
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 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 7/30/2017.
 Subsequent reports are due every 6 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 34.1:
 The Compliance Certification activity will be performed for the Facility.

Item 34.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

GLOBALFOUNDRIES is not required to further evaluate Reasonably Available Control Technology (RACT) for emission points with nitrogen oxide and volatile organic compound emission rate potentials less than 3.0 pounds per hour. This condition applies to numerous emission points associated with emission units generating these contaminants.

GLOBALFOUNDRIES shall maintain a comprehensive inventory record of emission points subject to this requirement as well as documentation of compliance as appropriate. All records shall be available to the Department upon request.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2018.
 Subsequent reports are due every 12 calendar month(s).

Condition 1-10: Compliance Certification
Effective between the dates of 11/18/2019 and 05/07/2022

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

Item 1-10.1:

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

Item 1-10.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

GLOBALFOUNDRIES East Fishkill shall operate the existing Concentrator Thermal Oxidizers (CTOs) at a minimum temperature of 1250 F. Emission unit K-00001, C4P plating operation process, in Building 320 consists of a concentrator stage (BCONC) followed by oxidizer stage (BOXID). Also located in building 320 is a second system, a concentrator stage (CONC1) and oxidizer stage (OXID1). The CTOs are equipped with bypass, which are used to control VOCs. 6NYCRR 212-3(c)(4) identifies Reasonably Available Control Technology (RACT) at major VOC source facilities as capture and control efficiency of 81%. VOC Emission Rate Potential established less than 3 lbs/hr for each CTO system within building 320; however, control is also applicable to odor abatement.

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Monitoring Description:

GLOBALFOUNDRIES 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 VOC source facilities as capture and control efficiency of 81%. VOC Emission Rate Potential established as less than 20 lbs/hr for each building and in accordance with 6 NYCRR 212-2.3 shall maintain a 90% or greater VOC control efficiency.

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 1/30/2020.

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

Condition 35: Compliance Certification**Effective between the dates of 05/08/2017 and 05/07/2022****Applicable Federal Requirement:6 NYCRR 225-1.2 (e)****Item 35.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Process: MB6

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Owners and/or operators of any stationary combustion installation that fires residual oil are limited to the purchase of residual oil with a sulfur content of 0.50% sulfur on or after July 1, 2014 and to the firing of residual oil with a sulfur content of 0.50% on or after July 1, 2016.

Data collected pursuant to this Subpart must be tabulated

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and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: RESIDUAL FUEL (#4, #5 AND/OR #6 FUEL OIL)
 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 36: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 36.1:

The Compliance Certification activity will be performed for the Facility.

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

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

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Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 37: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR 225-1.6

Item 37.1:

The Compliance Certification activity will be performed for the Facility.

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

GLOBALFOUNDRIES shall retain for up three years fuel analyses, information on the quantity of fuel received, burned or sold, and results of stack sampling, stack monitoring and other procedures to ensure compliance with provisions of this Subpart. Fuel consumption shall be recorded based on a twelve month rolling average to be submitted upon the Department's request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 38: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 38.1:

The Compliance Certification activity will be performed for the Facility.

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

For a modification with a project emission potential that does not utilize the emissions exclusion allowed under section 231-4.1(b)(41)(i)(c) of this Part and which 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, or for a modification with a project emission potential which when added to emissions excluded in accordance with section 231-4.1(b)(41)(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

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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 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; and
- (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.

This compliance document is in support of a Title V renewal only – no new sources are being added other than that allowed under Condition 17: 6NYCRR 201-6.5(f)(6).

GLOBALFOUNDRIES, in preparation of Greenhouse Gas (GHG) requirements, has all tools equipped with ancillary abatement systems. GLOBALFOUNDRIES will comply with all required reporting and recordkeeping requirements associated with 40 CFR 98 Subpart (c), GHG from all stationary combustion sources (Emission Unit A), and 40 CFR 98 Subpart (i), GHG from all manufacturing sources (Emission Units I and K).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 39: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 39.1:
 The Compliance Certification activity will be performed for the Facility.

Item 39.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

For a modification with a project emission potential which 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, but equals or exceeds 50 percent of the applicable significant project threshold when emissions excluded in accordance with section 231-4.1(b)(41)(i)(c) of this Part are added and is less than the applicable significant project threshold, or for a modification with a project emission potential which 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 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 or obtain a preconstruction permit under the 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 unit;

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

(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); 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 (2) of this subdivision. The report must contain:

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- (i) the name, address, and telephone number of the major facility;
- (ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this subdivision; and
- (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 1/30/2018.

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

Condition 1-12: Compliance Certification
Effective between the dates of 11/18/2019 and 05/07/2022

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

Item 1-12.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Process: MB6

Item 1-12.2:

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 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

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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.

(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.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2020.

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

Condition 41: Compliance Certification

Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: K-00001

Process: C4P

Emission Source: 387AA

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

Regulated Contaminant(s):

CAS No: 001333-82-0

CHROMIUM OXIDE

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

CAS No: 007439-92-1

LEAD

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under 40 CFR 63, GLOBALFOUNDRIES will submit annual certification of compliance for lead, chrome, and nickel electroplating and electropolishing processes at the facility. GlobalFoundries East Fishkill implements specific management practices to comply with this part including:

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

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- (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.
- (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)

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Reports due 30 days after the reporting period.
 The initial report is due 1/30/2018.
 Subsequent reports are due every 12 calendar month(s).

Condition 42: Compliance and Enforcement
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 42.1:

The Department has not accepted delegation of 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Any questions concerning compliance and/or enforcement of this regulation should be referred to USEPA Region 2, 290 Broadway, 21st Floor, New York, NY 10007-1866; (212) 637-4080. Should the Department decide to accept delegation of 40 CFR Part 63 Subpart ZZZZ during the term of this permit, enforcement of this regulation will revert to the Department as of the effective date of delegation.

Condition 44: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:40CFR 82, Subpart F

Item 44.1:

The Compliance Certification activity will be performed for the Facility.

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

GLOBALFOUNDRIES shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F:

- (a) Person opening appliances for maintenance, service, repair, or disposal of appliances must comply with the required practices specified in 40 CFR Part 82, Subpart F 156:
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must be must comply with standards for recycling and recovery equipment as specified in 40 CFR Part 82, Subpart F 158:
- (c) Person performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program as specified in 40 CFR Part 82, Subpart F 161:
- (d) Commercial or industrial process refrigeration

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equipment must comply with the leak repair requirements specified 40 CFR Part 82, Subpart F 156:

(e) Each appliance normally contained fifty (50) or more pounds of refrigerant, GlobalFoundries shall keep records of refrigerant purchased and added to such appliances in 40 CFR Part 82, Subpart F 166

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 7/30/2017.

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

Condition 45: Compliance Certification
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:40 CFR Part 98

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

40 CFR Part 98 establishes mandatory greenhouse gas (GHG) reporting requirements for owners and operators of certain facilities that directly emit GHG as well as for certain fossil fuel suppliers and industrial GHG suppliers. For suppliers, the GHGs reported are the quantity that would be emitted from combustion or use of the products supplied.

Owners and operators of facilities and suppliers that are subject to 40 CFR Part 98 must follow the requirements of subpart A and all applicable subparts of 40 CFR Part 98. If a conflict exists between a provision in subpart A and any other applicable subpart, the requirements of the applicable subpart shall take precedence.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 46: Emission Point Definition By Emission Unit
Effective between the dates of 05/08/2017 and 05/07/2022

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Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 46.1(From Mod 1):

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

- Emission Unit: A-00001
 - Emission Point: 00001
 - Height (ft.): 57 Diameter (in.): 36
 - NYTMN (km.): 4599.435 NYTME (km.): 598.239 Building: B/315
 - Emission Point: 00002
 - Height (ft.): 57 Diameter (in.): 36
 - NYTMN (km.): 4599.435 NYTME (km.): 598.246 Building: B/315
 - Emission Point: 00003
 - Height (ft.): 57 Diameter (in.): 36
 - NYTMN (km.): 4599.44 NYTME (km.): 598.251 Building: B/315
 - Emission Point: 00004
 - Height (ft.): 57 Diameter (in.): 36
 - NYTMN (km.): 4599.444 NYTME (km.): 598.256 Building: B/315
 - 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 46.2(From Mod 0):

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

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Emission Point: OT284
 Height (ft.): 45 Diameter (in.): 4
 NYTMN (km.): 4599.591 NYTME (km.): 598.433 Building: B/316

Emission Point: PTWT2
 Height (ft.): 10 Diameter (in.): 6
 NYTMN (km.): 4599.753 NYTME (km.): 598.263 Building: B/386

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

Item 46.3(From Mod 1):

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
 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

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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		
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/323A
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	

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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 46.4(From Mod 1):

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

Emission Unit: K-00001

Emission Point: OBC4A

Height (ft.): 70 Diameter (in.): 50

NYTMN (km.): 4599.598 NYTME (km.): 598.048 Building: B/320B

Emission Point: OBC4S

Height (ft.): 76 Diameter (in.): 24

NYTMN (km.): 4599.605 NYTME (km.): 598.072 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.): 239 Diameter (in.): 28

NYTMN (km.): 4599.586 NYTME (km.): 598.126 Building: B/320B

Emission Point: OXID1

Height (ft.): 329 Diameter (in.): 10

NYTMN (km.): 4599.579 NYTME (km.): 598.13 Building: B/320B

Condition 47: Process Definition By Emission Unit

Effective between the dates of 05/08/2017 and 05/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 47.1(From Mod 1):

Permit ID: 3-1328-00025/01028

Facility DEC ID: 3132800025

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 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 47.2(From Mod 1):

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 72 MMBTU/HR BOILERS BURNING 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 47.3(From Mod 0):

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 47.4(From Mod 0):

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

Permit ID: 3-1328-00025/01028

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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 47.5(From Mod 0):

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 47.6(From Mod 1):

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

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

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

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

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

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

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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 47.7(From Mod 1):

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

Emission Unit: K-00001
Process: C4P Source Classification Code: 3-13-065-99
Process Description: C4 Plating Line operations.

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

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

Emission Source/Control: CONC1 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: OXID1 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: 387AA - Process

Emission Source/Control: 472AA - Process

Emission Source/Control: PLT02 - Process

Emission Source/Control: PLT04 - Process

Emission Source/Control: PLT05 - Process

Emission Source/Control: PLTE1 - Process

Condition 48: Compliance Certification

Permit ID: 3-1328-00025/01028

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Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 48.1:

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: 00007
Emission Unit: A-00001	Emission Point: 00008

Item 48.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

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STATE ONLY ENFORCEABLE CONDITIONS****** Facility Level ********NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

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

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

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

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

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

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

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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 49: Contaminant List

Effective between the dates of 05/08/2017 and 05/07/2022

Applicable State Requirement:ECL 19-0301

Item 49.1:

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

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

CAS No: 000067-66-3
Name: CHLOROFORM

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

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

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
Name: 2-PROPANOL, 1-METHOXY

CAS No: 000108-11-2

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Name: 2-PENTANOL, 4-METHYL-

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: 003275-24-9

Name: METHANAMINE, N-METHYL TITANIUM (4+)SALT

CAS No: 007320-34-5

Name: DIPHOSPHORIC ACID, TETRAPOTASSIUM SALT H407P2.4K

CAS No: 007439-92-1

Name: LEAD

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: 007440-74-6

Name: INDIUM IN

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007550-45-0

Name: TITANIUM TETRACHLORIDE

CAS No: 007631-86-9

Name: AMORPHOUS SILICA

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

CAS No: 007782-41-4
Name: FLUORINE

CAS No: 007784-42-1
Name: ARSINE

CAS No: 007803-51-2
Name: PHOSPHINE

CAS No: 010102-44-0
Name: NITROGEN DIOXIDE

CAS No: 019287-45-7
Name: DIBORANE

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

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

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

Condition 50: Malfunctions and start-up/shutdown activities
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable State Requirement:6 NYCRR 201-1.4

Item 50.1:

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

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

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(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

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

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

Condition 26: Air pollution prohibited
Effective between the dates of 05/08/2017 and 05/07/2022

Applicable State Requirement:6 NYCRR 211.1

Item 26.1:

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 1-13: Compliance Demonstration
Effective between the dates of 11/18/2019 and 05/07/2022

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

Replaces Condition(s) 53

Item 1-13.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000067-66-3	CHLOROFORM
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: 007784-42-1	ARSINE

Item 1-13.2:

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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, GLOBALFOUNDRIES 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.

Arsine = 10 lbs/yr
 Chromium Compounds = 250 lbs/yr
 Nickel Compounds = 10 lbs/yr
 Potassium Permanganate (manganese compounds) = 10 lbs/yr
 Trichloromethane (chloroform) = 100 lbs/yr
 Triethylarsenate (arsenic) = 1 lb/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 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 1/30/2020.
 Subsequent reports are due every 6 calendar month(s).

Condition 1-14: Compliance Demonstration
Effective between the dates of 11/18/2019 and 05/07/2022

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

Item 1-14.1:

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: 007320-34-5
 DIPHOSPHORIC ACID, TETRAPOTASSIUM SALT H407P2.4K
 CAS No: 007440-22-4 SILVER
 CAS No: 007631-86-9 AMORPHOUS SILICA
 CAS No: 007440-74-6 INDIUM IN

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Item 1-14.2:

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:

Indium & (Indium Sulfamate)
 Silica (Amorphous)
 Silver
 Tetrapotassium Pyrophosphate

The listed HTAC contaminants have been demonstrated to be in compliance with 6 NYCRR Part 212-2.1(a) by meeting the DAR-1 guideline concentrations. GLOBALFOUNDRIES performed refined AERMOD modeling to demonstrate compliance with the respective SGC/AGC at the fenceline.

For these contaminants, GLOBALFOUNDRIES 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 1/30/2020.

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

Condition 52: Compliance Demonstration
Effective between the dates of 05/08/2017 and 05/07/2022

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

Item 52.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: I-00001
 Process: 0WF

Permit ID: 3-1328-00025/01028

Facility DEC ID: 3132800025

Regulated Contaminant(s):

CAS No: 007550-45-0	TITANIUM TETRACHLORIDE
CAS No: 001333-82-0	CHROMIUM OXIDE

Item 52.2:

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

GLOBALFOUNDRIES performed refined AERMOD modeling for Chrome (VI) Oxide and TitaniumTetrachloride demonstrating compliance with the respective SGC/AGC at the fenceline. The modeling was approved by the Department on 12/06/2016.

For these contaminants, GLOBALFOUNDRIES 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 7/30/2017.

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

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Facility DEC ID: 3132800025