



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 3-1328-00025/01028  
Effective Date: 01/04/2012 Expiration Date: 01/03/2017

Permit Issued To:EMPIRE STATE DEVELOPMENT CORPORATION  
30 SOUTH PEARL ST  
ALBANY, NY 12245

INTERNATIONAL BUSINESS MACHINES CORPORATION  
NEW ORCHARD RD  
ARMONK, NY 10504

Contact: EMPIRE STATE DEVELOPMENT CORPORATION  
30 SOUTH PEARL ST  
ALBANY, NY 12245  
(800) 782-8369

Facility: IBM EAST FISHKILL FACILITY, HUDSON VALLEY RESEARCH PARK  
2070 ST RTE 52  
HOPEWELL JUNCTION, NY 12533

Contact: BRUCE TRIPP  
IBM EAST FISHKILL  
2070 ST RTE 52 - BLDG 325  
HOPEWELL JUNCTION, NY 12533-6531  
(845) 892-1616

Description:  
IBM East Fishfill facility is engaged in the development and manufacture of semiconductors for the computer and electronic industries. The emissions of oxides of Nitrogen (NOx), Volatile Organic Compound (VOCs), and CO2e (including equivalents) are above major source thresholds as defined by the Federal Clean Air Act and therefore the facility is required to obtain a Title V permit.

**New York State Department of Environmental Conservation**  
Facility DEC ID: 3132800025



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:           KENNETH R GRZYB  
  NYSDEC REGION 3  
  21 S PUTT CORNERS RD  
  NEW PALTZ, NY 12561

Authorized Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_\_\_



### Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

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

**Facility Level**

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



**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 expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for 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 to the Department for approval.



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

**Item 4.1:**

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

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

**\*\*\*\* Facility Level \*\*\*\***

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

**Item 5.1:**

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

**New York State Department of Environmental Conservation**

Permit ID: 3-1328-00025/01028

Facility DEC ID: 3132800025



**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To:EMPIRE STATE DEVELOPMENT CORPORATION  
30 SOUTH PEARL ST  
ALBANY, NY 12245

INTERNATIONAL BUSINESS MACHINES CORPORATION  
NEW ORCHARD RD  
ARMONK, NY 10504

Facility: IBM EAST FISHKILL FACILITY, HUDSON VALLEY RESEARCH PARK  
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

Permit Effective Date: 01/04/2012

Permit Expiration Date: 01/03/2017



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.5 (a) (7): Fees
- 3 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 4 6 NYCRR 201-6.5 (c) (2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.5 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.5 (a) (4): Standard Requirement - Provide Information
- 16 6 NYCRR 201-6.5 (a) (8): General Condition - Right to Inspect
- 17 6 NYCRR 201-6.5 (d) (5): Standard Requirements - Progress Reports
- 18 6 NYCRR 201-6.5 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 40 CFR Part 68: Accidental release provisions.
- 21 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 23 6 NYCRR Subpart 201-6: Compliance Certification
- 24 6 NYCRR 201-6.5 (f): Compliance Certification
- 25 6 NYCRR 201-6.5 (g): Non Applicable requirements
- 26 6 NYCRR 211.1: Air pollution prohibited
- 27 6 NYCRR 212.4 (c): Compliance Certification
- 28 6 NYCRR 212.6 (a): Compliance Certification
- 29 6 NYCRR 212.10 (c) (1): Compliance Certification
- 30 6 NYCRR 212.11 (b): Compliance Certification
- 31 6 NYCRR 212.11 (b): Compliance Certification
- 32 6 NYCRR 225-1.2: Compliance Certification
- 33 6 NYCRR 225-1.2 (a) (2): Compliance Certification
- 34 6 NYCRR 225-1.8: Compliance Certification
- 35 6 NYCRR Part 226: Compliance Certification
- 36 6 NYCRR 226.2: Compliance Certification
- 37 6 NYCRR 231-11.2 (b): Compliance Certification
- 38 6 NYCRR 231-11.2 (c): Compliance Certification
- 39 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Certification
- 40 40CFR 60.47c, NSPS Subpart Dc: Compliance Certification
- 41 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Certification
- 42 40CFR 60.48c(f)(2), NSPS Subpart Dc: Compliance Certification
- 43 40CFR 68.10(a), Subpart A: Compliance Certification



**Emission Unit Level**

- 44 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 45 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 46 6 NYCRR 227-1.3 (a): Compliance Certification
- 47 40CFR 63.11507(g), Subpart WWWW: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 48 ECL 19-0301: Contaminant List
- 49 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 50 6 NYCRR 211.2: Visible Emissions Limited



**FEDERALLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* 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: Emergency Defense - 6 NYCRR 201-1.5**

An emergency constitutes an affirmative defense to an action brought 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 and/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;
- (3) During the period of the emergency the facility owner and/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 and/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 and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

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

**Item B: Public Access to Recordkeeping for 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 C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.3 (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 D: Certification by a Responsible Official - 6 NYCRR 201-6.3 (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 E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.5 (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 F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.5 (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 planned changes or anticipated noncompliance does not stay any permit condition.

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5 (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 H: Property Rights - 6 NYCRR 201-6.5 (a) (6)**

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



**Item I: Severability - 6 NYCRR 201-6.5 (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 J: Permit Shield - 6 NYCRR 201-6.5 (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;
- 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 K: Reopening for Cause - 6 NYCRR 201-6.5 (i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is



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 this 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 Part 201-6.7 and Part 621.

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.

**Item L: 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 M:** **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 01/04/2012 and 01/03/2017**

**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.

**Condition 2: Fees**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (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 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (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 201-6.3 of this Part 201.

**Condition 4: Monitoring, Related Recordkeeping, and Reporting Requirements.**

**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (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 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (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 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 201-6.3(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.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies 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). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2012.  
Subsequent reports are due every 6 calendar month(s).



**Condition 6: Compliance Certification**  
Effective between the dates of 01/04/2012 and 01/03/2017

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (e)**

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
  - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to

**New York State Department of Environmental Conservation**

**Permit ID: 3-1328-00025/01028**

**Facility DEC ID: 3132800025**



the Administrator (or his or her representative) as well as two copies 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). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

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)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2013.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**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 8: Recordkeeping requirements**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**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.

(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 01/04/2012 and 01/03/2017**

**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, 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 01/04/2012 and 01/03/2017**

**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 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 11.1:**

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

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
**Effective between the dates of 01/04/2012 and 01/03/2017**



**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 01/04/2012 and 01/03/2017**

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

**Item 13.1:**

The owner and/or operator of an emission source or unit that is eligible to be exempt may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 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.

**Condition 14: Trivial Sources - Proof of Eligibility**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 14.1:**

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 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.

**Condition 15: Standard Requirement - Provide Information**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (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: General Condition - Right to Inspect**  
Effective between the dates of 01/04/2012 and 01/03/2017

**Applicable Federal Requirement:6 NYCRR 201-6.5 (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
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 17: Standard Requirements - Progress Reports**  
Effective between the dates of 01/04/2012 and 01/03/2017

**Applicable Federal Requirement:6 NYCRR 201-6.5 (d) (5)**

**Item 17.1:**

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 18: Off Permit Changes**  
Effective between the dates of 01/04/2012 and 01/03/2017

**Applicable Federal Requirement:6 NYCRR 201-6.5 (f) (6)**

**Item 18.1:**

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

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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 201-6.6 shall not apply to any change made pursuant to this paragraph.

**Condition 19: Required Emissions Tests**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 19.1:**

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 20: Accidental release provisions.**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 20.1:**

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

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

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

**Condition 21: Recycling and Emissions Reduction**  
**Effective between the dates of 01/04/2012 and 01/03/2017**



**Applicable Federal Requirement:40CFR 82, Subpart F**

**Item 21.1:**

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 22: Emission Unit Definition**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 22.1:**

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

Emission Unit: A-00001

Emission Unit Description:

This emission unit consists of eight 72 MMBtu/hr natural gas fired boilers (with No. 6 fuel backup).

Building(s): B/315

**Item 22.2:**

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

Emission Unit: B-00001

Emission Unit Description:

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

Building(s): B/300

B/316

B/317

B/325

B/384

B/386

**Item 22.3:**

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

Emission Unit: C-00001

Emission Unit Description:

This emission unit consists of Raw Material Preparation/Casting operations (ball milling, casting of ceramics and cleaning of casters) and Ceramic Packaging.

Building(s): B/300

B/330C



B/330D  
 B/330G  
 B/338

**Item 22.4:**

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(s): B/323  
 B/323A

**Item 22.5:**

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

Emission Unit: K-00001

Emission Unit Description:

C4 Plating Operations.

Building(s): B/320B  
 B/330C

**Condition 23: Compliance Certification**

Effective between the dates of 01/04/2012 and 01/03/2017

Applicable Federal Requirement:6 NYCRR Subpart 201-6

**Item 23.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 23.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The list below supplements conditions #24, 32, and 33- 6 NYCRR Subpart 201-6 Emission Units, Points, Processes and Source/Controls. IBM East Fishkill shall maintain a current record on site. This list shall be submitted to the Department during permit renewals and modifications or upon request.

A-00001	1	1	MB6/M
BN			
A-00001	2	2	MB6/M
BN			
A-00001	3	3	MB6/M
BN			

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A-00001	4	4	MB6/M
BN			
A-00001	5	5	MB6/M
BN			
A-00001	6	6	MB6/M
BN			
A-00001	7	7	MB6/M
BN			
A-00001	8	8	MB6/M
BN			
B-00001	T283	T283	
	316		
B-00001	T284	T284	
	316		
B-00001	T3228	T32	
28	316		
B-00001	01SC1	01S	
C1	317		
B-00001	01T1A	01T	
1A	317		
B-00001	01T1B	01T	
1B	317		
B-00001	02SC1	02S	
C1	317		
B-00001	1DIS1	1DI	
S1	317		
B-00001	2DIS1	2DI	
S1	317		
B-00001	PTWT1	PTW	
T1	386		
B-00001	1O181	1O1	
81	317		
B-00001	L1601	L16	
01	317		
C-00001	090AA	090	
AA	J1		
C-00001	0RTO3	0RT	
O3	J1		
C-00001	0RTO4	0RT	
O4	J1		
C-00001	119AA	119	
AA	J1		
C-00001	120AA	120	
AA	J1		
C-00001	562AA	562	
AA	J1		
C-00001	648AA	648	
AA	J1		
C-00001	648AB	648	
AB	J1		
C-00001	650AA	650	
AA	J1		

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C-00001	672AA	672
AA	J1	
C-00001	910AA	910
AA	J1	
C-00001	910AB	910
AB	J1	
C-00001	910AC	910
AC	J1	
C-00001	910AD	910
AD	J1	
C-00001	910AE	910
AE	J1	
C-00001	910AF	910
AF	J1	
C-00001	910AG	910
AG	J1	
C-00001	910AH	910
AH	J1	
C-00001	910AK	910
AK	J1	
C-00001	910AL	910
AL	J1	
C-00001	910AM	910
AM	J1	
C-00001	910AP	910
AP	J1	
C-00001	910AQ	910
AQ	J1	
C-00001	910AR	910
AR	J1	
C-00001	910AS	910
AS	J1	
C-00001	910AT	910
AT	J1	
C-00001	910AU	910
AU	J1	
C-00001	910AV	910
AV	J1	
C-00001	910AW	910
AW	J1	
C-00001	910AX	910
AX	J1	
C-00001	910AY	910
AY	J1	
C-00001	910BA	910
BA	J1	
C-00001	910BB	910
BB	J1	
C-00001	974AE	974
AE	J1	
C-00001	L1274	L12
74	J1	

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C-00001	OL113	OL1
13	J1	
C-00001	OL344	OL3
44	J1	
C-00001	OL599	OL5
99	J1	
C-00001	034AA	034
AA	J3	
C-00001	055AE	055
AE	J3	
C-00001	055AF	055
AF	J3	
C-00001	064CF	064
CF	J3	
C-00001	111AC	111
AC	J3	
C-00001	111AD	111
AD	J3	
C-00001	113AA	113
AA	J3	
C-00001	127AA	127
AA	J3	
C-00001	128AA	128
AA	J3	
C-00001	128AB	128
AB	J3	
C-00001	130AA	130
AA	J3	
C-00001	1391B	139
1B	J3	
C-00001	154AA	154
AA	J3	
C-00001	312AF	312
AF	J3	
C-00001	312AG	312
AG	J3	
C-00001	312AH	312
AH	J3	
C-00001	312AP	312
AP	J3	
C-00001	405AA	405
AA	J3	
C-00001	441AA	441
AA	J3	
C-00001	461AA	461
AA	J3	
C-00001	461AB	461
AB	J3	
C-00001	53649	536
49	J3	
C-00001	536AA	536
AA	J3	

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C-00001	536AB	536
AB	J3	
C-00001	536AC	536
AC	J3	
C-00001	541AB	541
AB	J3	
C-00001	580AA	580
AA	J3	
C-00001	739AB	739
AB	J3	
C-00001	739AF	739
AF	J3	
C-00001	739AH	739
AH	J3	
C-00001	739AJ	739
AJ	J3	
C-00001	739AK	739
AK	J3	
C-00001	739AL	739
AL	J3	
C-00001	739AN	739
AN	J3	
C-00001	739AP	739
AP	J3	
C-00001	740AY	740
AY	J3	
C-00001	740AZ	740
AZ	J3	
C-00001	740BS	740
BS	J3	
C-00001	740BT	740
BT	J3	
C-00001	740BU	740
BU	J3	
C-00001	740BX	740
BX	J3	
C-00001	740BY	740
BY	J3	
C-00001	740CA	740
CA	J3	
C-00001	757AA	757
AA	J3	
C-00001	757AC	757
AC	J3	
C-00001	757AD	757
AD	J3	
C-00001	757AE	757
AE	J3	
C-00001	757AF	757
AF	J3	
C-00001	757AG	757
AG	J3	

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C-00001	757AH	757
AH	J3	
C-00001	757AI	757
AI	J3	
C-00001	757AJ	757
AJ	J3	
C-00001	757AK	757
AK	J3	
C-00001	757AL	757
AL	J3	
C-00001	757AM	757
AM	J3	
C-00001	759AA	759
AA	J3	
C-00001	759AB	759
AB	J3	
C-00001	759AE	759
AE	J3	
C-00001	759AF	759
AF	J3	
C-00001	759AG	759
AG	J3	
C-00001	759AH	759
AH	J3	
C-00001	759AI	759
AI	J3	
C-00001	759AJ	759
AJ	J3	
C-00001	759AK	759
AK	J3	
C-00001	759AL	759
AL	J3	
C-00001	759AM	759
AM	J3	
C-00001	759AN	759
AN	J3	
C-00001	759AO	759
AO	J3	
C-00001	759AP	759
AP	J3	
C-00001	759AQ	759
AQ	J3	
C-00001	759AR	759
AR	J3	
C-00001	759AS	759
AS	J3	
C-00001	759AT	759
AT	J3	
C-00001	759AU	759
AU	J3	
C-00001	759AV	759
AV	J3	

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C-00001	759AW	759
AW	J3	
C-00001	759AX	759
AX	J3	
C-00001	759AY	759
AY	J3	
C-00001	759AZ	759
AZ	J3	
C-00001	833AA	833
AA	J3	
C-00001	8882B	888
2B	J3	
C-00001	974AA	974
AA	J3	
C-00001	L1429	L14
29	J3	
C-00001	L1786	L17
86	J3	
C-00001	T3501	T35
01	J3	
C-00001	480AH	480
AH	J4	
C-00001	480AL	480
AL	J4	
C-00001	6324A	632
4A	J4	
C-00001	833AB	833
AB	J4	
C-00001	022AA	022
AA	J5	
C-00001	155AA	155
AA	J5	
C-00001	155AB	155
AB	J5	
C-00001	245AB	245
AB	J5	
C-00001	246AA	246
AA	J5	
C-00001	3905B	390
5B	J5	
C-00001	422AA	422
AA	J5	
C-00001	465AA	465
AA	J5	
C-00001	61AAA	61A
AA	J5	
C-00001	798AD	798
AD	J5	
C-00001	87154	871
54	J5	
C-00001	L1695	L16
95	J5	

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C-00001	1127A	112
7A	J58	
C-00001	127AB	127
AB	J58	
C-00001	127AC	127
AC	J58	
C-00001	306AA	306
AA	J58	
C-00001	465AB	465
AB	J58	
C-00001	570AA	570
AA	J58	
C-00001	570AB	570
AB	J58	
C-00001	8228A	822
8A	J58	
C-00001	981AE	981
AE	J58	
C-00001	981AF	981
AF	J58	
C-00001	981AG	981
AG	J58	
C-00001	981AH	981
AH	J58	
C-00001	738AA	738
AA	GOA	
C-00001	738AB	738
AB	GOA	
C-00001	754AB	754
AB	GOA	
C-00001	75AAA	75A
AA	GOA	
C-00001	915AG	915
AG	GOA	
C-00001	915AH	915
AH	GOA	
C-00001	551AA	551
AA	J3	
C-00001	881AA	881
AA	J3	
C-00001	58790	587
90	J3	
C-00001	OL020	OL0
20	J3	
C-00001	T3371	T33
71	J3	
C-00001	T3372	T33
72	J3	
C-00001	T3373	T33
73	J3	
C-00001	T3374	T33
74	J3	

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C-00001	T3375	T33
75	J3	
C-00001	T3510	T35
10	J3	
I-00001	0AA02	0AA
02	0WF	
I-00001	0AA03	0AA
03	0WF	
I-00001	0AA05	0AA
05	0WF	
I-00001	0AB01	0AB
01	0WF	
I-00001	0AB02	0AB
02	0WF	
I-00001	0AB03	0AB
03	0WF	
I-00001	0AB04	0AB
04	0WF	
I-00001	0AB05	0AB
05	0WF	
I-00001	0ABD1	0AB
D1	0WF	
I-00001	0AC01	0AC
01	0WF	
I-00001	0AC02	0AC
02	0WF	
I-00001	ACIDA	ACI
DA	0WF	
I-00001	ACIDB	ACI
DB	0WF	
I-00001	ACIDC	ACI
DC	0WF	
I-00001	ACIDD	ACI
DD	0WF	
I-00001	ACIDE	ACI
DE	0WF	
I-00001	0AE01	0AE
01	0WF	
I-00001	0AE02	0AE
02	0WF	
I-00001	0AE03	0AE
03	0WF	
I-00001	0AED1	0AE
D1	0WF	
I-00001	0AED2	0AE
D2	0WF	
I-00001	0BA01	0BA
01	0WF	
I-00001	0BA02	0BA
02	0WF	
I-00001	0BAD1	0BA
D1	0WF	

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I-00001	0BB01	0BB
01	0WF	
I-00001	0BB02	0BB
02	0WF	
I-00001	0BB03	0BB
03	0WF	
I-00001	0BC01	0BC
01	0WF	
I-00001	0BC02	0BC
02	0WF	
I-00001	0BCD1	0BC
D1	0WF	
I-00001	0BD01	0BD
01	0WF	
I-00001	BD01M	BD0
1M	0WF	
I-00001	0BDD1	0BD
D1	0WF	
I-00001	0BE01	0BE
01	0WF	
I-00001	0CA01	0CA
01	0WF	
I-00001	0CA03	0CA
03	0WF	
I-00001	0CA04	0CA
04	0WF	
I-00001	0CAD1	0CA
D1	0WF	
I-00001	0CB01	0CB
01	0WF	
I-00001	0CB02	0CB
02	0WF	
I-00001	0CB03	0CB
03	0WF	
I-00001	0CB04	0CB
04	0WF	
I-00001	0CB05	0CB
05	0WF	
I-00001	0CBD1	0CB
D1	0WF	
I-00001	0CG01	0CG
01	0WF	
I-00001	0CM01	0CM
01	0WF	
I-00001	CM01M	CM0
1M	0WF	
I-00001	0CMD1	0CM
D1	0WF	
I-00001	CMD1M	CMD
1M	0WF	
I-00001	0CMD2	0CM
D2	0WF	

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I-00001	CMD2M	CMD
2M	0WF	
I-00001	0CND1	0CN
D1	0WF	
I-00001	0CND2	0CN
D2	0WF	
I-00001	CND2M	CND
2M	0WF	
I-00001	0DC01	0DC
01	0WF	
I-00001	0DCD1	0DC
D1	0WF	
I-00001	0DG01	0DG
01	0WF	
I-00001	0DG02	0DG
02	0WF	
I-00001	0DG03	0DG
03	0WF	
I-00001	0DG04	0DG
04	0WF	
I-00001	0DG05	0DG
05	0WF	
I-00001	0DGD2	0DG
D2	0WF	
I-00002	0DHD2	0DH
D2	0WF	
I-00001	0DJ01	0DJ
01	0WF	
I-00001	0DJ02	0DJ
02	0WF	
I-00001	0DJD1	0DJ
D1	0WF	
I-00001	0DK01	0DK
01	0WF	
I-00001	0DK02	0DK
02	0WF	
I-00001	0DL01	0DL
01	0WF	
I-00001	0DL02	0DL
02	0WF	
I-00001	0DM01	0DM
01	0WF	
I-00001	0DM02	0DM
02	0WF	
I-00001	0DMD1	0DM
D1	0WF	
I-00001	0DN01	0DN
01	0WF	
I-00001	0DN02	0DN
02	0WF	
I-00001	0DN03	0DN
03	0WF	

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I-00001	0DN04	0DN
04	0WF	
I-00001	0DN05	0DN
05	0WF	
I-00001	0DO01	0DO
01	0WF	
I-00001	0DO02	0DO
02	0WF	
I-00001	0DOD1	0DO
D1	0WF	
I-00001	0DPD1	0DP
D1	0WF	
I-00001	0DQ01	0DQ
01	0WF	
I-00001	0DQ02	0DQ
02	0WF	
I-00001	0DS01	0DS
01	0WF	
I-00001	0DU01	0DU
01	0WF	
I-00001	0DUD1	0DU
D1	0WF	
I-00001	0DV30	0DV
30	0WF	
I-00001	0DW02	0DW
02	0WF	
I-00001	0DWD1	0DW
D1	0WF	
I-00001	0DX01	0DX
01	0WF	
I-00001	0DX02	0DX
02	0WF	
I-00001	0FA01	0FA
01	0WF	
I-00001	FA01M	FA0
1M	0WF	
I-00001	0FB01	0FB
01	0WF	
I-00001	FB01M	FB0
1M	0WF	
I-00001	0FE01	0FE
01	0WF	
I-00001	0FE02	0FE
02	0WF	
I-00001	0FE03	0FE
03	0WF	
I-00001	0FE04	0FE
04	0WF	
I-00001	0FF02	0FF
02	0WF	
I-00001	0FFD1	0FF
D1	0WF	

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I-00001	0FG01	0FG
01	0WF	
I-00001	0FH01	0FH
01	0WF	
I-00001	FH01M	FH0
1M	0WF	
I-00001	0FH02	0FH
02	0WF	
I-00001	FH02M	FH0
2M	0WF	
I-00001	0FH03	0FH
03	0WF	
I-00001	FH03M	FH0
3M	0WF	
I-00001	0FH04	0FH
04	0WF	
I-00001	FH04M	FH0
4M	0WF	
I-00001	0FH05	0FH
05	0WF	
I-00001	FH05M	FH0
5M	0WF	
I-00001	0FH06	0FH
06	0WF	
I-00001	0FH07	0FH
07	0WF	
I-00001	0FH08	0FH
08	0WF	
I-00001	FH08M	FH0
8M	0WF	
I-00001	0FH09	0FH
09	0WF	
I-00001	FH09M	FH0
9M	0WF	
I-00001	0FH10	0FH
10	0WF	
I-00001	0FH11	0FH
11	0WF	
I-00001	0FHD1	0FH
D1	0WF	
I-00001	FHD1M	FHD
1M	0WF	
I-00001	0FHD2	0FH
D2	0WF	
I-00001	FHD2M	FHD
2M	0WF	
I-00001	0FID1	0FI
D1	0WF	
I-00001	FID1M	FID
1M	0WF	
I-00001	0FID2	0FI
D2	0WF	

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I-00001	FID2M	FID
2M	0WF	
I-00001	0FJ01	0FJ
01	0WF	
I-00001	FJ01M	FJ0
1M	0WF	
I-00001	0FJ02	0FJ
02	0WF	
I-00001	0FK01	0FK
01	0WF	
I-00001	FK01M	FK0
1M	0WF	
I-00001	0FK02	0FK
02	0WF	
I-00001	FK02M	FK0
2M	0WF	
I-00001	0FK04	0FK
04	0WF	
I-00001	FK04M	FK0
4M	0WF	
I-00001	0FK05	0FK
05	0WF	
I-00001	0FK06	0FK
06	0WF	
I-00001	0FK07	0FK
07	0WF	
I-00001	FK07M	FK0
7M	0WF	
I-00001	0FK08	0FK
08	0WF	
I-00001	FK08M	FK0
8M	0WF	
I-00001	0FK09	0FK
09	0WF	
I-00001	0FK10	0FK
10	0WF	
I-00001	FK10M	FK1
0M	0WF	
I-00001	0FK11	0FK
11	0WF	
I-00001	FK11M	FK1
1M	0WF	
I-00001	0FK12	0FK
12	0WF	
I-00001	0FK13	0FK
13	0WF	
I-00001	FK13M	FK1
3M	0WF	
I-00001	0FK14	0FK
14	0WF	
I-00001	0FL01	0FL
01	0WF	

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I-00001	FL01M	FL0
1M	0WF	
I-00001	0FL02	0FL
02	0WF	
I-00001	FL02M	FL0
2M	0WF	
I-00001	0FL03	0FL
03	0WF	
I-00001	FL03M	FL0
3M	0WF	
I-00001	0FM01	0FM
01	0WF	
I-00001	0FMD1	0FM
D1	0WF	
I-00001	0FP01	0FP
01	0WF	
I-00001	0FQD1	0FQ
D1	0WF	
I-00001	FQD1M	FQD
1M	0WF	
I-00001	0FRD1	0FR
D1	0WF	
I-00001	FRD1M	FRD
1M	0WF	
I-00001	0FSD1	0FS
D1	0WF	
I-00001	FSD1M	FSD
1M	0WF	
I-00001	0HA02	0HA
02	0WF	
I-00001	0HA04	0HA
04	0WF	
I-00001	0HA05	0HA
05	0WF	
I-00001	0HAD1	0HA
D1	0WF	
I-00001	0HAD2	0HA
D2	0WF	
I-00001	0HB01	0HB
01	0WF	
I-00001	0HB02	0HB
02	0WF	
I-00001	0HB03	0HB
03	0WF	
I-00001	0HB04	0HB
04	0WF	
I-00001	0HB05	0HB
05	0WF	
I-00001	0HB06	0HB
06	0WF	
I-00001	0HB07	0HB
07	0WF	

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I-00001	0HB08	0HB
08	0WF	
I-00001	0HB09	0HB
09	0WF	
I-00001	0HB10	0HB
10	0WF	
I-00001	0HBD1	0HB
D1	0WF	
I-00001	0HBD2	0HB
D2	0WF	
I-00001	0HC01	0HC
01	0WF	
I-00001	0HC02	0HC
02	0WF	
I-00001	0HC05	0HC
05	0WF	
I-00001	0HD01	0HD
01	0WF	
I-00001	0HD02	0HD
02	0WF	
I-00001	0HE01	0HE
01	0WF	
I-00001	0HE02	0HE
02	0WF	
I-00001	0HED1	0HE
D1	0WF	
I-00001	0HL01	0HL
01	0WF	
I-00001	0HLD1	0HL
D1	0WF	
I-00001	0JB01	0JB
01	0WF	
I-00001	0JC01	0JC
01	0WF	
I-00001	0JC02	0JC
02	0WF	
I-00001	0JCD1	0JC
D1	0WF	
I-00001	0JDD1	0JD
D1	0WF	
I-00001	0JED1	0JE
D1	0WF	
I-00001	0JF01	0JF
01	0WF	
I-00001	0JG01	0JG
01	0WF	
I-00001	0JG02	0JG
02	0WF	
I-00001	0JH01	0JH
01	0WF	
I-00001	0JHD1	0JH
D1	0WF	

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I-00001	OJI01	OJI
01	0WF	
I-00001	OJI02	OJI
02	0WF	
I-00001	OJID1	OJI
D1	0WF	
I-00001	OJK01	OJK
01	0WF	
I-00001	OJK02	OJK
02	0WF	
I-00001	OJK03	OJK
03	0WF	
I-00001	OJK04	OJK
04	0WF	
I-00001	OJK06	OJK
06	0WF	
I-00001	OJL01	OJL
01	0WF	
I-00001	OJLD1	OJL
D1	0WF	
I-00001	OJM01	OJM
01	0WF	
I-00001	OJM02	OJM
02	0WF	
I-00001	OJN01	OJN
01	0WF	
I-00001	OJN02	OJN
02	0WF	
I-00001	OJN03	OJN
03	0WF	
I-00001	OJN04	OJN
04	0WF	
I-00001	OJN05	OJN
05	0WF	
I-00001	OJND1	OJN
D1	0WF	
I-00001	OJND2	OJN
D2	0WF	
I-00001	OJND3	OJN
D3	0WF	
I-00001	OJO01	OJO
01	0WF	
I-00001	JO01M	JO0
1M	0WF	
I-00001	OJO02	OJO
02	0WF	
I-00001	JO02M	JO0
2M	0WF	
I-00001	OJO03	OJO
03	0WF	
I-00001	JO03M	JO0
3M	0WF	

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I-00001	0JO04	0JO
04	0WF	
I-00001	JO04M	JO0
4M	0WF	
I-00001	0JO06	0JO
06	0WF	
I-00001	JO06M	JO0
6M	0WF	
I-00001	0JP01	0JP
01	0WF	
I-00001	0JQ01	0JQ
01	0WF	
I-00001	JQ01M	JQ0
1M	0WF	
I-00001	0JQ02	0JQ
02	0WF	
I-00001	0JR01	0JR
01	0WF	
I-00001	JR01M	JR0
1M	0WF	
I-00001	0JR02	0JR
02	0WF	
I-00001	JR02M	JR0
2M	0WF	
I-00001	0JR03	0JR
03	0WF	
I-00001	0JR04	0JR
04	0WF	
I-00001	0JRD1	0JR
D1	0WF	
I-00001	0JS01	0JS
01	0WF	
I-00001	JS01M	JS0
1M	0WF	
I-00001	0JS02	0JS
02	0WF	
I-00001	JS02M	JS0
2M	0WF	
I-00001	0JS03	0JS
03	0WF	
I-00001	0JS04	0JS
04	0WF	
I-00001	JS04M	JS0
4M	0WF	
I-00001	0JS05	0JS
05	0WF	
I-00001	JS05M	JS0
5M	0WF	
I-00001	0JS06	0JS
06	0WF	
I-00001	0KK80	0KK
80	0WF	

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I-00001	0NB02	0NB
02	0WF	
I-00001	0NB03	0NB
03	0WF	
I-00001	0ND02	0ND
02	0WF	
I-00001	0ND03	0ND
03	0WF	
I-00001	0ND09	0ND
09	0WF	
I-00001	0ND11	0ND
11	0WF	
I-00001	0ND12	0ND
12	0WF	
I-00001	0ND13	0ND
13	0WF	
I-00001	0NDD1	0ND
D1	0WF	
I-00001	0NE01	0NE
01	0WF	
I-00001	0NE02	0NE
02	0WF	
I-00001	0NE03	0NE
03	0WF	
I-00001	0NE06	0NE
06	0WF	
I-00001	0NE11	0NE
11	0WF	
I-00001	0NE12	0NE
12	0WF	
I-00001	0NE13	0NE
13	0WF	
I-00001	0NE14	0NE
14	0WF	
I-00001	0NE15	0NE
15	0WF	
I-00001	0NF01	0NF
01	0WF	
I-00001	0NF02	0NF
02	0WF	
I-00001	0NF03	0NF
03	0WF	
I-00001	0NF04	0NF
04	0WF	
I-00001	0NFD2	0NF
D2	0WF	
I-00001	0NG01	0NG
01	0WF	
I-00001	0NJ01	0NJ
01	0WF	
I-00001	00VOC	VRT
O1	0WF	

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I-00001	00VOC	VRT
O2	0WF	
I-00001	00VOC	VRT
O3	0WF	
I-00001	ACID1	ACI
D1	0WF	
I-00001	ACID2	ACI
D2	0WF	
I-00001	0AE04	0AE
04	0WF	
I-00001	0BA04	0BA
04	0WF	
I-00001	BASE1	BAS
E1	0WF	
I-00001	BASE2	BAS
E2	0WF	
I-00001	BASE3	BAS
E3	0WF	
I-00001	0BP01	0BP
01	0WF	
I-00001	0BT01	0BT
01	0WF	
I-00001	0BX01	0BX
01	0WF	
I-00001	0CB06	0CB
06	0WF	
I-00001	0CD01	0CD
01	0WF	
I-00001	0CD02	0CD
02	0WF	
I-00001	0COD1	0CO
D1	0WF	
I-00001	0DC02	0DC
02	0WF	
I-00001	0DW03	0DW
03	0WF	
I-00001	0FE05	0FE
05	0WF	
I-00001	0FF04	0FF
04	0WF	
I-00001	0FF05	0FF
05	0WF	
I-00001	0FF06	0FF
06	0WF	
I-00001	0FK15	0FK
15	0WF	
I-00001	0FP02	0FP
02	0WF	
I-00001	0FQD2	0FQ
D2	0WF	
I-00001	0FUD1	0FU
D1	0WF	

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I-00001	0FUD2	0FU
D2	0WF	
I-00001	0HE03	0HE
03	0WF	
I-00001	0HE04	0HE
04	0WF	
I-00001	0HL03	0HL
03	0WF	
I-00001	0HL04	0HL
04	0WF	
I-00001	0HM01	0HM
01	0WF	
I-00001	0HMD1	0HM
D1	0WF	
I-00001	0JAD1	0JA
D1	0WF	
I-00001	0JED2	0JE
D2	0WF	
I-00001	0JN06	0JN
06	0WF	
I-00001	0JP02	0JP
02	0WF	
I-00001	0JQ03	0JQ
03	0WF	
I-00001	0JQ04	0JQ
04	0WF	
I-00001	0JQ05	0JQ
05	0WF	
I-00001	0JS07	0JS
07	0WF	
I-00001	0JV01	0JV
01	0WF	
I-00001	0JX01	0JX
01	0WF	
I-00001	0JZ01	0JZ
01	0WF	
I-00001	03VOC	SOL
V1	0WF	
I-00001	03VOC	SOL
V2	0WF	
I-00001	0ND15	0ND
15	0WF	
I-00001	0ND17	0ND
17	0WF	
I-00001	0NF07	0NF
07	0WF	
I-00001	0NF08	0NF
08	0WF	
I-00001	0NFD1	0NF
D1	0WF	
I-00001	02ACD	02A
CD	0WF	

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I-00001	04ACD	04A
CD	0WF	
I-00001	01CAS	01C
AS	0WF	
I-00001	02CAS	02C
AS	0WF	
I-00001	0AE05	0AE
05	0WF	
I-00001	0AE06	0AE
06	0WF	
I-00001	0AED3	0AE
D3	0WF	
I-00001	0BJ01	0BJ
01	0WF	
I-00001	0BJ02	0BJ
02	0WF	
I-00001	0BK01	0BK
01	0WF	
I-00001	0BK02	0BK
02	0WF	
I-00001	0BK03	0BK
03	0WF	
I-00001	0BK04	0BK
04	0WF	
I-00001	0BK06	0BK
06	0WF	
I-00001	0BK07	0BK
07	0WF	
I-00001	0BKD3	0BK
D3	0WF	
I-00001	0CN012	0C
N01	0WF	
I-00001	0DGD3	0DG
D3	0WF	
I-00001	0DHD3	0DH
D3	0WF	
I-00001	0FF03	0FF
03	0WF	
I-00001	0FWD1	0FW
D1	0WF	
I-00001	0HB11	0HB
11	0WF	
I-00001	0HB12	0HB
12	0WF	
I-00001	0HE05	0HE
05	0WF	
I-00001	0HE06	0HE
06	0WF	
I-00001	0JED3	0JE
D3	0WF	
I-00001	0JJ01	0JJ
01	0WF	

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I-00001	0JJ02	0JJ
02	0WF	
I-00001	0JJ03	0JJ
03	0WF	
I-00001	0JJ05	0JJ
05	0WF	
I-00001	0JJ06	0JJ
06	0WF	
I-00001	0JJ07	0JJ
07	0WF	
I-00001	0JKD1	0JK
D1	0WF	
I-00001	0JL02	0JL
02	0WF	
I-00001	0JLD2	0JL
D2	0WF	
I-00001	0KK81	0KK
81	0WF	
I-00001	0KMD2	0KM
D2	0WF	
I-00001	0NE16	0NE
16	0WF	
I-00001	BC01M	BC0
1M	0WF	
I-00001	BCD1M	BCD
1M	0WF	
I-00001	BDD1M	BDD
1M	0WF	
I-00001	CAUSA	CAU
SA	0WF	
I-00001	CAUSB	CAU
SB	0WF	
I-00001	CAUSC	CAU
SC	0WF	
I-00001	CB01M	CB0
1M	0WF	
I-00001	CB01T	CB0
1T	0WF	
I-00001	CB03C	CB0
3C	0WF	
I-00001	CB03M	CB0
3M	0WF	
I-00001	CB03T	CB0
3T	0WF	
I-00001	CBD1C	CBD
1C	0WF	
I-00001	CBD1M	CBD
1M	0WF	
I-00001	CBD1T	CBD
1T	0WF	
I-00001	CN01M	CN0
1M	0WF	

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I-00001	CND1M	CND
1M	0WF	
I-00001	FE01M	FE0
1M	0WF	
I-00001	FE03M	FE0
3M	0WF	
I-00001	FE04M	FE0
4M	0WF	
I-00001	FF02M	FF0
2M	0WF	
I-00001	FF03M	FF0
3M	0WF	
I-00001	FFD1M	FFD
1M	0WF	
I-00001	FG01M	FG0
1M	0WF	
I-00001	FH06M	FH0
6M	0WF	
I-00001	FH07M	FH0
7M	0WF	
I-00001	FH10M	FH1
0M	0WF	
I-00001	FH11M	FH1
1M	0WF	
I-00001	FK05M	FK0
5M	0WF	
I-00001	FK14M	FK1
4M	0WF	
I-00001	FM01M	FM0
1M	0WF	
I-00001	FMD1M	FMD
1M	0WF	
I-00001	FP01M	FP0
1M	0WF	
I-00001	FQD1T	FQD
1T	0WF	
I-00001	JB01M	JB0
1M	0WF	
I-00001	JCD1M	JCD
1M	0WF	
I-00001	JED3M	JED
3M	0WF	
I-00001	JG01M	JG0
1M	0WF	
I-00001	JG01T	JG0
1T	0WF	
I-00001	JG02M	JG0
2M	0WF	
I-00001	JH01M	JH0
1M	0WF	
I-00001	JI01M	JI0
1M	0WF	

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I-00001	J102M	J10
2M	0WF	
I-00001	J1D1M	J1D
1M	0WF	
I-00001	JK01M	JK0
1M	0WF	
I-00001	JK02M	JK0
2M	0WF	
I-00001	JK03M	JK0
3M	0WF	
I-00001	JK04M	JK0
4M	0WF	
I-00001	JK06M	JK0
6M	0WF	
I-00001	JKD1M	JKD
1M	0WF	
I-00001	JL01M	JL0
1M	0WF	
I-00001	JL02M	JL0
2M	0WF	
I-00001	JLD1M	JLD
1M	0WF	
I-00001	JLD2M	JLD
2M	0WF	
I-00001	JLD2T	JLD
2T	0WF	
I-00001	JM01M	JM0
1M	0WF	
I-00001	JM02M	JM0
2M	0WF	
I-00001	JN01M	JN0
1M	0WF	
I-00001	JN02M	JN0
2M	0WF	
I-00001	JN03M	JN0
3M	0WF	
I-00001	JN04M	JN0
4M	0WF	
I-00001	JN05M	JN0
5M	0WF	
I-00001	JND1M	JND
1M	0WF	
I-00001	JND1T	JND
1T	0WF	
I-00001	JND2M	JND
2M	0WF	
I-00001	JND2T	JND
2T	0WF	
I-00001	JND3M	JND
3M	0WF	
I-00001	JP01M	JP0
1M	0WF	

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I-00001	JQ02M	JQ0
2M	0WF	
I-00001	JR03M	JR0
3M	0WF	
I-00001	JR04M	JR0
4M	0WF	
I-00001	JRD1C	JRD
1C	0WF	
I-00001	JRD1M	JRD
1M	0WF	
I-00001	JRD1T	JRD
1T	0WF	
I-00001	JS03M	JS0
3M	0WF	
I-00001	JS06M	JS0
6M	0WF	
I-00001	L3083	L30
83	0WF	
I-00001	L3084	L30
84	0WF	
I-00001	0CM02	0CM
02	0WF	
I-00001	3ACID	3AC
ID	0WF	
I-00001	BASE6	BAS
E6	0WF	
I-00001	BASE7	BAS
E7	0WF	
I-00001	BASE5	BAS
E5	0WF	
I-00001	0AB06	0AB
06	0WF	
I-00001	0AE07	0AE
07	0WF	
I-00001	0BB04	0BB
04	0WF	
I-00001	0BD02	0BD
02	0WF	
I-00001	BD02M	BD0
2M	0WF	
I-00001	0BD03	0BD
03	0WF	
I-00001	BD03M	BD0
3M	0WF	
I-00001	BD03T	BD0
3T	0WF	
I-00001	0BD04	0BD
04	0WF	
I-00001	BD04M	BD0
4M	0WF	
I-00001	BD04T	BD0
4T	0WF	

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I-00001	0BD05	0BD
05	0WF	
I-00001	BD05M	BD0
5M	0WF	
I-00001	0BKD2	0BK
D2	0WF	
I-00001	BP01M	BP0
1M	0WF	
I-00001	0BP02	0BP
02	0WF	
I-00001	BP02M	BP0
2M	0WF	
I-00001	0BP03	0BP
03	0WF	
I-00001	BP03M	BP0
3M	0WF	
I-00001	0BP04	0BP
04	0WF	
I-00001	BP04M	BP0
4M	0WF	
I-00001	BP04T	BP0
4T	0WF	
I-00001	0BP05	0BP
05	0WF	
I-00001	0BQD1	0BQ
D1	0WF	
I-00001	BQD1M	BQD
1M	0WF	
I-00001	0BR01	0BR
01	0WF	
I-00001	BT01M	BT0
1M	0WF	
I-00001	BT01T	BT0
1T	0WF	
I-00001	0BW01	0BW
01	0WF	
I-00001	CB06M	CB0
6M	0WF	
I-00001	0CB07	0CB
07	0WF	
I-00001	0CB08	0CB
08	0WF	
I-00001	0CD03	0CD
03	0WF	
I-00001	0CD04	0CD
04	0WF	
I-00001	0CE02	0CE
02	0WF	
I-00001	CM02M	CM0
2M	0WF	
I-00001	0CN02	0CN
02	0WF	

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I-00001	CN02M	CN0
2M	0WF	
I-00001	0CN03	0CN
03	0WF	
I-00001	CN03M	CN0
3M	0WF	
I-00001	0CO01	0CO
01	0WF	
I-00001	C001M	C00
1M	0WF	
I-00001	CO01T	CO0
1T	0WF	
I-00001	0CO02	0CO
02	0WF	
I-00001	COD1M	COD
1M	0WF	
I-00001	COD1T	COD
1T	0WF	
I-00001	0COD2	0CO
D2	0WF	
I-00001	COD2M	COD
2M	0WF	
I-00001	COD2T	COD
2T	0WF	
I-00001	0CT01	0CT
01	0WF	
I-00001	0CT02	0CT
02	0WF	
I-00001	0CT03	0CT
03	0WF	
I-00001	0DC03	0DC
03	0WF	
I-00001	0DC04	0DC
04	0WF	
I-00001	0DC05	0DC
05	0WF	
I-00001	0DC06	0DC
06	0WF	
I-00001	0DCD2	0DC
D2	0WF	
I-00001	0DPD2	0DP
D2	0WF	
I-00001	0DYD1	0DY
D1	0WF	
I-00001	0DYD2	0DY
D2	0WF	
I-00001	FE05M	FE0
5M	0WF	
I-00001	0FE06	0FE
06	0WF	
I-00001	FE06M	FE0
6M	0WF	



I-00001	FF04M	FF0
4M	0WF	
I-00001	FF05M	FF0
5M	0WF	
I-00001	FF06M	FF0
6M	0WF	
I-00001	0FFD2	0FF
D2	0WF	
I-00001	FFD2M	FFD
2M	0WF	
I-00001	0FG02	0FG
02	0WF	
I-00001	FG02M	FG0
2M	0WF	
I-00001	0FG03	0FG
03	0WF	
I-00001	FG03M	FG0
3M	0WF	
I-00001	0FHD3	0FH
D3	0WF	
I-00001	FHD3M	FHD
3M	0WF	
I-00001	0FHD4	0FH
D4	0WF	
I-00001	FHD4M	FHD
4M	0WF	
I-00001	0FHD5	0FH
D5	0WF	
I-00001	FHD5M	FHD
5M	0WF	
I-00001	FK15M	FK1
5M	0WF	
I-00001	0FL06	0FL
06	0WF	
I-00001	FL06M	FL0
6M	0WF	
I-00001	FP02M	FP0
2M	0WF	
I-00001	0FP03	0FP
03	0WF	
I-00001	FP03M	FP0
3M	0WF	
I-00001	0FP04	0FP
04	0WF	
I-00001	FP04M	FP0
4M	0WF	
I-00001	FQD2M	FQD
2M	0WF	
I-00001	0FQ03	0FQ
03	0WF	
I-00001	FQD3M	FQD
3M	0WF	

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I-00001	FUD1M	FUD
1M	0WF	
I-00001	FUD2M	FUD
2M	0WF	
I-00001	0FUD3	0FU
D3	0WF	
I-00001	FUD3M	FUD
3M	0WF	
I-00001	0FUD4	0FU
D4	0WF	
I-00001	FUD4M	FUD
4M	0WF	
I-00001	0HH01	0HH
01	0WF	
I-00001	0HH02	0HH
02	0WF	
I-00001	0HM02	0HM
02	0WF	
I-00001	0HM03	0HM
03	0WF	
I-00001	0HM04	0HM
04	0WF	
I-00001	0JAD2	0JA
D2	0WF	
I-00001	0JAD3	0JA
D3	0WF	
I-00001	JAD3M	JAD
3M	0WF	
I-00001	0JAD4	0JA
D4	0WF	
I-00001	JAD4M	JAD
4M	0WF	
I-00001	0JED4	0JE
D4	0WF	
I-00001	0JJ04	0JJ
04	0WF	
I-00001	0JM03	0JM
03	0WF	
I-00001	JM03M	JM0
3M	0WF	
I-00001	JN06M	JN0
6M	0WF	
I-00001	0JN07	0JN
07	0WF	
I-00001	JN07M	JN0
7M	0WF	
I-00001	JP02M	JP0
2M	0WF	
I-00001	JQ03M	JQ0
3M	0WF	
I-00001	JQ04M	JQ0
4M	0WF	

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I-00001	JS07M	JS0
7M	0WF	
I-00001	0JWD1	0JW
D1	0WF	
I-00001	JWD1M	JWD
1M	0WF	
I-00001	JX01M	JX0
1M	0WF	
I-00001	0JXD1	0JX
D1	0WF	
I-00001	JXD1M	JXD
1M	0WF	
I-00001	JZ01M	JZ0
1M	0WF	
I-00001	0KY01	0KY
01	0WF	
I-00001	0KY03	0KY
03	0WF	
I-00001	0ND21	0ND
21	0WF	
I-00001	0ND22	0ND
22	0WF	
K-00001	032AC	032
AC	C4P	
K-00001	118XA	118
XA	C4P	
K-00001	165AB	165
AB	C4P	
K-00001	185AA	185
AA	C4P	
K-00001	377AA	377
AA	C4P	
K-00001	387AA	387
AA	C4P	
K-00001	412AE	412
AE	C4P	
K-00001	412AH	412
AH	C4P	
K-00001	412AL	412
AL	C4P	
K-00001	472AA	472
AA	C4P	
K-00001	504AA	504
AA	C4P	
K-00001	543AA	543
AA	C4P	
K-00001	557AA	557
AA	C4P	
K-00001	592AA	592
AA	C4P	
K-00001	592AB	592
AB	C4P	

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K-00001	604AA	604
AA	C4P	
K-00001	604AB	604
AB	C4P	
K-00001	608AA	608
AA	C4P	
K-00001	608AB	608
AB	C4P	
K-00001	715AH	715
AH	C4P	
K-00001	827AB	827
AB	C4P	
K-00001	827AC	827
AC	C4P	
K-00001	827AD	827
AD	C4P	
K-00001	827AE	827
AE	C4P	
K-00001	827AF	827
AF	C4P	
K-00001	8570A	857
0A	C4P	
K-00001	8570B	857
0B	C4P	
K-00001	BAK01	BAK
01	C4P	
K-00001	CLN01	CLN
01	C4P	
K-00001	CLN02	CLN
02	C4P	
K-00001	DEV01	DEV
01	C4P	
K-00001	ELE01	ELE
01	C4P	
K-00001	L1550	L15
50	C4P	
K-00001	L3846	L38
46	C4P	
K-00001	MCU01	MCU
01	C4P	
K-00001	OXD01	OXD
01	C4P	
K-00001	OXD02	OXD
02	C4P	
K-00001	PLT01	PLT
01	C4P	
K-00001	PLT02	PLT
02	C4P	
K-00001	RFL01	RFL
01	C4P	
K-00001	RFL02	RFL
02	C4P	

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K-00001 01	RIE01 C4P	RIE
K-00001 02	RIE02 C4P	RIE
K-00001 01	SPT01 C4P	SPT
K-00001 02	STR02 C4P	STR
K-00001 01	TIW01 C4P	TIW
K-00001 02	TIW02 C4P	TIW
K-00001 NC	BCONC C4P	BCO
K-00001 ID	BOXID C4P	BOX
K-00001 AA	533AA C4P	533
K-00001 01	MFT01 C4P	MFT
K-00001 AA	324AA C4P	324
K-00001 DA	103DA C4P	103
K-00001 D1	PCVD1 C4P	PCV
K-00001 01	CMP01 C4P	CMP
K-00001 01	GND01 C4P	GND
K-00001 Y2	APLY2 C4P	APL
K-00001 AF	150AF C4P	150
K-00001 07	1W007 C4P	1W0
K-00001 24	H0024 C4P	H00
K-00001 01	AAD01 C4P	AAD
K-00001 03	ASH03 C4P	ASH
K-00001 D2	BOND2 C4P	BON
K-00001 02	CMP02 C4P	CMP
K-00001 00	STT00 C4P	STT
K-00001 H1	ETCH1 C4P	ETC
K-00001 H2	ETCH2 C4P	ETC



K-00001	MLCL1	MLC	
L1	C4P		
K-00001	PCVD2	PCV	
D2	C4P		
K-00001	PLT04	PLT	
04	C4P		
K-00001	SOT01	SOT	
01	C4P		
K-00001	SOT02	SOT	
02	C4P		
K-00001	STR04	STR	
04	C4P		
K-00001	PLTE1	PLTE1	C4P

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 24: Compliance Certification**  
 Effective between the dates of 01/04/2012 and 01/03/2017

**Applicable Federal Requirement:6 NYCRR 201-6.5 (f)**

**Item 24.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

**OPERATIONAL FLEXIBILITY:**

(1) Certain changes and modifications which meet the criteria under (i)-(iii) below may be conducted without prior approval of the Department and shall not require modification of the permit. The facility owner and/or operator must however maintain records of the date and description of such changes and make such records available for review by Department representatives upon request.

(i) changes that do not cause emissions to exceed any emission limitation contained in regulations or applicable requirements under this chapter;

(ii) changes which do not cause the source to become subject to any additional regulations or requirements under this chapter;

(iii) changes that do not seek to establish or modify a federally-enforceable emission cap or limit.



(2) In addition to the record keeping requirement under (1) above, the permittee must notify the department in writing at least 30 calendar days in advance of making changes involving:

(i) the relocation of emission points within a facility;

(ii) the emission of any air pollutant not previously authorized or emitted in accordance with a permit issued by the Department;

(iii) the installation or alteration of any air cleaning installations, device or control equipment.

(iv) written notification is not required for emission points where a specific degree of air cleaning is identified as not applicable by 6NYCRR 212.9(b) Table 2 provisions.

(3) The Department may require a permit modification to impose applicable requirements or special permit conditions if it determines that changes proposed pursuant to notification under (2) above do not meet the requirement under (1) above or the change may have a significant air quality impact. In such cases the Department may require that the permittee not undertake the proposed change until it completes a more detailed review of the change for air quality impacts and/or applicable requirements. The Department shall respond to the permittee in writing with such a determination within 15 days of receipt of the 30 day advance notification from the permittee. The Department's determination shall include a listing of information necessary to further review 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 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (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.

6 NYCRR 229.1 (f) (1)



Reason: The tanks at this facility are pressurized fixed roof tanks with conservation vents which are capable of maintaining a working pressure to prevent emissions of VOCs. Per 6 NYCRR 229.1(f)(1), these tanks are exempt from Part 229.

The Nitrogen pressure system on the tanks shall be checked periodically to ensure the system is operating properly. Corrective action will be taken immediately if necessary.

**Condition 26: Air pollution prohibited**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal 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 27: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.4 (c)**

**Item 27.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 27.2:**

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.

IBM East Fishkill 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.

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The Department reserves the right to request IBM East Fishkill 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 7/30/2012.

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

**Condition 28: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement: 6 NYCRR 212.6 (a)**

**Item 28.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 28.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Average opacity, based on any six consecutive minutes, is limited to less than 20 percent, except only the emission of uncombined water.

IBM East Fishkill 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 perform or require IBM East Fishkill conduct a Method 9 opacity evaluation at any time during facility operation.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



The initial report is due 7/30/2012.  
Subsequent reports are due every 6 calendar month(s).

**Condition 29: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.10 (c) (1)**

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

IBM East Fishkill 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.

IBM East Fishkill 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 IBM East Fishkill conduct future performance testing to verify compliance.

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 1/30/2013.

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

**Condition 30: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.11 (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 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: VTRO2

Emission Unit: I-00001  
Process: 0WF Emission Source: VTRO3

Regulated Contaminant(s):

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

**Item 30.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

IBM 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. 6NYCRR 212.10(c)(4) identifies Reasonably Available Control Technology 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. In accordance with 6 NYCRR Subpart 212.9(b) Table 2, IBM East Fishkill shall maintain a 90% or greater VOC control efficiency.

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 IBM East Fishkill conduct future performance testing to verify VOC capture and control efficiencies.

IBM East Fishkill shall keep record of the date, time and duration of all periods the RTOs 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.

Parameter Monitored: TEMPERATURE  
Lower 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 7/30/2012.  
Subsequent reports are due every 6 calendar month(s).

**Condition 31: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.11 (b)**

**Item 31.1:**

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

Emission Unit: C-00001                      Emission Point: ORTO3  
Process: OJ1                                      Emission Source: ORTO3

Emission Unit: C-00001                      Emission Point: ORTO4  
Process: OJ1                                      Emission Source: ORTO4

**Item 31.2:**



Compliance Certification shall include the following monitoring:

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

Monitoring Description:

IBM East Fishkill shall operate the existing Regenerative Thermal Oxidizers ORTO3 and ORTO4 at a minimum temperature of 1500 F. ORTO3 and ORTO4 are used to control Volatile Organic Compounds (VOC) from emission unit C-00001. 6NYCRR 212.10(c)(4) identifies Reasonably Available Control Technology at major VOC source facilities as capture and control efficiency of 81%. Primary VOC contaminants are Methanol and Methyl Isobutyl Ketone. Emission Rate Potential established as less than 35 lbs/hr for ORTO3 and ORTO4. Under 6 NYCRR Subpart 212.9(b) Table 2, IBM East Fishkill shall maintain a 91% or greater VOC control efficiency.

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.

The 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 IBM East Fishkill conduct future performance testing to verify VOC capture and control efficiencies.

IBM East Fishkill shall keep record of the date, time and duration of all periods the RTOs 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.

Parameter Monitored: TEMPERATURE





- (1) Calendar dates covered in the reporting period.
- (2) Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
- (3) Amount of each fuel combusted during each operating day.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: NUMBER 6 OIL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 0.5 percent by weight  
Monitoring Frequency: PER DELIVERY  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2013.  
Subsequent reports are due every 12 calendar month(s).

**Condition 33: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement: 6 NYCRR 225-1.2 (a) (2)**

**Item 33.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 33.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any distillate oil fuel which contains sulfur in a quantity exceeding 1.5 percent by weight, as specified in 6NYCRR 225-1.2(d) Table 2.

The facility shall keep records and submit reports which includes the following information:

- (1) Calendar dates covered in the reporting period; and
- (2) verification of compliance with the stipulated limit.



Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: NUMBER 2 OIL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 1.5 percent by weight  
Monitoring Frequency: PER DELIVERY  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2013.  
Subsequent reports are due every 12 calendar month(s).

**Condition 34: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR 225-1.8**

**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:

IBM East Fishkill shall retain for up to 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 the provisions of this Subpart. Fuel consumption shall be recorded based on a twelve month rolling average to be submitted upon the Departments request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 35: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR Part 226**

**Item 35.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 35.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 3-1328-00025/01028

Facility DEC ID: 3132800025



Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The following types of control equipment must be used when conducting solvent metal cleaning:

(a) Cold cleaning degreasing when the internal volume of the machine is greater than two gallons.

(1) A cover which can be operated easily.

(2) An internal drainage facility (under cover), if practical.

(3) A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.5, or a water cover when the solvent is insoluble in and heavier than water.

6NYCRR Subpart 226.3(a)(4) does not apply as these degreasers are located in an enclosure having control equipment that is designed and operated with an overall VOC removal efficiency of 90 percent or greater.

(4) Pursuant to 6 NYCRR 226.4(a), when utilizing cold cleaning degreasers, clean parts shall be drained at least 15 seconds or until dripping ceases.

A report must be submitted semiannually to the Department stating compliance status with these requirements and noting any deviations that occur.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DEGREASING UNITS

Parameter Monitored: VOC CONTENT

Lower Permit Limit: 90 percent

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

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 7/30/2012.

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

**Condition 36: Compliance Certification**

**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement: 6 NYCRR 226.2**



**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: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A person conducting solvent metal cleaning must:

- (a) store solvent in covered containers and transfer or dispose of waste solvent in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere;
- (b) maintain equipment to minimize leaks and fugitive emissions;
- (c) display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs;
- (d) keep the degreaser cover closed except when parts are being placed into or being removed from the degreaser, the cover needs to be open in order to add or remove solvent from the degreaser, no solvent is in the degreaser, or manually cleaning metal parts in a cold cleaning degreaser;
- (e) create and retain a record of solvent consumption for five years. This record must be made available to the department upon request;
- (f) not clean sponges, fabric, wood, leather, paper products and other absorbent materials in a degreaser

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 37: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**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:

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 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).

IBM East Fishkill facility, in preparation of Greenhouse Gas (GHG) requirements, has all tools equipped with ancillary abatement systems. IBM East Fishkill 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 38: Compliance Certification**  
Effective between the dates of 01/04/2012 and 01/03/2017

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

**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 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:

(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 1/30/2013.

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

**Condition 39: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 39.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Emission Point: 00008

Process: MB6

Emission Source: 00008

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 39.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:



IBM East Fishkill shall not combust oil with a sulfur content in excess of 0.5 percent by weight.

The facility shall obtain a supplier's certification with every No. 6 fuel delivery followed by the supplier's sample data analysis. Results of the fuel analysis taken shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content is greater than 0.5 weight percent sulfur, the facility shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 percent by weight

Reference Test Method: EPA Method 19

Monitoring Frequency: PER DELIVERY

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

**Condition 40: Compliance Certification**

**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 40.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Emission Point: 00008

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

IBM East Fishkill shall operate emission source 00008 so that opacity discharged into the atmosphere shall not exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.



The facility shall install, calibrate, maintain, and operate a COM to measure and record opacity emissions discharged to the atmosphere from designated emission source 00008.

All COMS for measuring opacity shall be operated in accordance with the applicable procedures under Performance Specification 1 of appendix B of 40CFR 60. Quality assurance reporting shall also comply with appendix B 40CFR 60. The span value of the opacity COMS shall be between 60 and 80 percent.

The facility shall submit semiannually a report documenting compliance or any excess opacity emission.

The opacity standards under this section apply at all times, except during periods of start up, shutdown, or malfunction.

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2012.  
Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 41.1:**  
The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:

Emission Unit: A-00001	Emission Point: 00008
Process: MB6	Emission Source: 00008

**Item 41.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

IBM East Fishkill is subject to fuel oil sulfur limits under §60.42c. The facility shall keep records and submit reports which includes the following information;

- (1) Calendar dates covered in the reporting period.
- (2) Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the



emission standards; and a description of corrective actions taken.

(3) Amount of each fuel combusted during each operating day.

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 7/30/2012.

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

**Condition 42: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

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

**Item 42.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Emission Point: 00001

Process: MB6

Emission Source: 00008

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The compliance certification shall include the following:

The owner and/or operator of the affected facility shall maintain records containing the following data:

- i) The name of the residual oil supplier;
- ii) the location from which the oil sample was drawn for analysis of the sulfur content. It shall be specifically stated whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil storage at the oil supplier's oil refiner's facility, or other location;
- iii) the sulfur content of the oil from which the shipment came (or of the shipment itself); and,
- iv) the method used to determine the sulfur content of the oil.

**New York State Department of Environmental Conservation**

Permit ID: 3-1328-00025/01028

Facility DEC ID: 3132800025



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

**Condition 43: Compliance Certification**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:40CFR 68.10(a), Subpart A**

**Item 43.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 001333-74-0      HYDROGEN

CAS No: 007664-41-7      AMMONIA

**Item 43.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

IBM East Fishkill is subject to 40CFR Part 68 - Chemical Accident Prevention Provisions. Regulated substances are ammonia (conc. > 19.99%) > 20,000 lbs. and hydrogen > 10,000 lbs. Applicable registrations and Risk Management Plan shall be submitted directly to USEPA as required by separate permit conditions under 40 CFR Part 68.

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 1/30/2013.

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

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

**Condition 44: Emission Point Definition By Emission Unit**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 44.1:**

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

Emission Point: 00002  
Height (ft.): 57 Diameter (in.): 36  
NYTMN (km.): 4599.435 NYTME (km.): 598.246

Emission Point: 00003  
Height (ft.): 57 Diameter (in.): 36  
NYTMN (km.): 4599.44 NYTME (km.): 598.251

Emission Point: 00004  
Height (ft.): 57 Diameter (in.): 36  
NYTMN (km.): 4599.444 NYTME (km.): 598.256

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

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

Emission Point: 00007  
Height (ft.): 57 Diameter (in.): 36  
NYTMN (km.): 4599.445 NYTME (km.): 598.28

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

**Item 44.2:**

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

Emission Unit: B-00001

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

Emission Point: 0NH32  
Height (ft.): 56 Diameter (in.): 3  
NYTMN (km.): 4599.652 NYTME (km.): 598.437 Building: B/316

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

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

Emission Point: PTWT2

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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 44.3:**

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

Emission Unit: C-00001

Emission Point: 0CH20  
Height (ft.): 23                      Diameter (in.): 30  
NYTMN (km.): 4599.661    NYTME (km.): 598.173    Building: B/310

Emission Point: 0HA23  
Height (ft.): 28                      Diameter (in.): 30  
NYTMN (km.): 4599.178    NYTME (km.): 598.504    Building: B/330C

Emission Point: 0HC32  
Height (ft.): 277                      Diameter (in.): 20  
NYTMN (km.): 4599.09    NYTME (km.): 598.547

Emission Point: 0HE26  
Height (ft.): 28                      Diameter (in.): 21  
NYTMN (km.): 4599.136    NYTME (km.): 598.498    Building: B/330C

Emission Point: 0HE33  
Height (ft.): 33                      Diameter (in.): 42  
NYTMN (km.): 4599.078    NYTME (km.): 598.54    Building: B/330C

Emission Point: 0HF29  
Height (ft.): 26                      Diameter (in.): 30  
NYTMN (km.): 4599.111    NYTME (km.): 598.507    Building: B/330C

Emission Point: 0HH27  
Height (ft.): 15                      Diameter (in.): 42  
NYTMN (km.): 4599.115    NYTME (km.): 598.48

Emission Point: 0HJ41  
Height (ft.): 19                      Diameter (in.): 73  
NYTMN (km.): 4599.007    NYTME (km.): 598.544    Building: B/338

Emission Point: 0HM31  
Height (ft.): 24                      Diameter (in.): 16  
NYTMN (km.): 4599.069    NYTME (km.): 598.481    Building: B/330C

Emission Point: 0HM33  
Height (ft.): 26                      Diameter (in.): 24  
NYTMN (km.): 4599.053    NYTME (km.): 598.492    Building: B/330C

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Emission Point: 0HQ36			
Height (ft.): 26	Diameter (in.): 30		
NYTMN (km.): 4599.02	NYTME (km.): 598.489	Building: B/330C	
Emission Point: 0HT33			
Height (ft.): 26	Diameter (in.): 42		
NYTMN (km.): 4599.03	NYTME (km.): 598.459	Building: B/330C	
Emission Point: 0JEF3			
Height (ft.): 28	Diameter (in.): 24		
NYTMN (km.): 4598.873	NYTME (km.): 598.295	Building: B/330D	
Emission Point: 0JEF5			
Height (ft.): 80	Diameter (in.): 24		
NYTMN (km.): 4598.6	NYTME (km.): 598.2	Building: B/330D	
Emission Point: 0RTO3			
Height (ft.): 50	Diameter (in.): 30		
NYTMN (km.): 4598.995	NYTME (km.): 598.441		
Emission Point: 0RTO4			
Height (ft.): 50	Diameter (in.): 30		
NYTMN (km.): 4599.222	NYTME (km.): 598.528		
Emission Point: 0RTO5		Removal Date: 06/02/2011	
Height (ft.): 70	Diameter (in.): 30		
NYTMN (km.): 4598.801	NYTME (km.): 598.367		
Emission Point: CHL31			
Height (ft.): 277	Diameter (in.): 30		
NYTMN (km.): 4599.1	NYTME (km.): 598.49		
Emission Point: HAB31			
Height (ft.): 28	Diameter (in.): 19		
NYTMN (km.): 4599.022	NYTME (km.): 598.412	Building: B/330C	
Emission Point: HD29A			
Height (ft.): 58	Diameter (in.): 30		
NYTMN (km.): 4599.12	NYTME (km.): 598.522	Building: B/330C	
Emission Point: HQ432			
Height (ft.): 28	Diameter (in.): 36		
NYTMN (km.): 4598.972	NYTME (km.): 598.523	Building: B/338	
Emission Point: HQ433			
Height (ft.): 28	Diameter (in.): 36		
NYTMN (km.): 4598.973	NYTME (km.): 598.525	Building: B/338	
Emission Point: JAZ30			
Height (ft.): 45	Diameter (in.): 19		
NYTMN (km.): 4598.853	NYTME (km.): 598.303	Building: B/330C	



Emission Point: JBB38  
Height (ft.): 255 Diameter (in.): 19  
NYTMN (km.): 4598.884 NYTME (km.): 598.33

Emission Point: JBB42  
Height (ft.): 261 Diameter (in.): 19  
NYTMN (km.): 4598.852 NYTME (km.): 598.355

Emission Point: JBB44  
Height (ft.): 45 Diameter (in.): 19  
NYTMN (km.): 4598.836 NYTME (km.): 598.366 Building: B/330C

Emission Point: JBD28  
Height (ft.): 45 Diameter (in.): 21  
NYTMN (km.): 4598.955 NYTME (km.): 598.271 Building: B/330C

Emission Point: JBD34  
Height (ft.): 45 Diameter (in.): 42  
NYTMN (km.): 4598.906 NYTME (km.): 598.304 Building: B/330C

Emission Point: JBD43  
Height (ft.): 46 Diameter (in.): 19  
NYTMN (km.): 4598.837 NYTME (km.): 598.352 Building: B/330C

Emission Point: JBG38  
Height (ft.): 52 Diameter (in.): 21  
NYTMN (km.): 4598.857 NYTME (km.): 598.312 Building: B/330C

Emission Point: JEF10  
Height (ft.): 11 Diameter (in.): 36  
NYTMN (km.): 4599. NYTME (km.): 598.3 Building: B/330D

Emission Point: JEF11  
Height (ft.): 11 Diameter (in.): 36  
NYTMN (km.): 4599. NYTME (km.): 598.2 Building: B/330D

Emission Point: T3501  
Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4599.003 NYTME (km.): 598.543 Building: B/338

**Item 44.4:**

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

Emission Unit: I-00001

Emission Point: 00ACD  
Height (ft.): 71 Diameter (in.): 72  
NYTMN (km.): 4599.042 NYTME (km.): 598.46 Building: B/323

Emission Point: 00CAS  
Height (ft.): 71 Diameter (in.): 36  
NYTMN (km.): 4599.042 NYTME (km.): 598.46 Building: B/323



Emission Point: 00VOC	Height (ft.): 71	Diameter (in.): 36	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323
Emission Point: 01ACD	Height (ft.): 71	Diameter (in.): 72	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323
Emission Point: 01CAS	Height (ft.): 71	Diameter (in.): 36	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323
Emission Point: 02ACD	Height (ft.): 88	Diameter (in.): 48	
NYTMN (km.): 4599.036		NYTME (km.): 598.077	Building: B/323A
Emission Point: 02CAS	Height (ft.): 88	Diameter (in.): 42	
NYTMN (km.): 4599.015		NYTME (km.): 598.09	Building: B/323A
Emission Point: 03ACD	Height (ft.): 71	Diameter (in.): 72	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323A
Emission Point: 03CAS	Height (ft.): 71	Diameter (in.): 36	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323A
Emission Point: 03VOC	Height (ft.): 71	Diameter (in.): 36	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323A
Emission Point: 04ACD	Height (ft.): 88	Diameter (in.): 48	
NYTMN (km.): 4599.029		NYTME (km.): 598.081	Building: B/323A
Emission Point: GEN01	Height (ft.): 71	Diameter (in.): 48	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323
Emission Point: GEN02	Height (ft.): 71	Diameter (in.): 48	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323
Emission Point: GEN03	Height (ft.): 71	Diameter (in.): 48	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323
Emission Point: GEN04	Height (ft.): 71	Diameter (in.): 48	
NYTMN (km.): 4599.042		NYTME (km.): 598.46	Building: B/323

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Emission Point: GEN05  
Height (ft.): 71 Diameter (in.): 48  
NYTMN (km.): 4599.042 NYTME (km.): 598.46 Building: B/323

Emission Point: GEN06  
Height (ft.): 82 Diameter (in.): 60  
NYTMN (km.): 4599.187 NYTME (km.): 598.001 Building: B/323

Emission Point: GEN07 Removal Date: 06/02/2011  
Height (ft.): 71 Diameter (in.): 48  
NYTMN (km.): 4599.042 NYTME (km.): 598.46 Building: B/323A

Emission Point: GEN08  
Height (ft.): 88 Diameter (in.): 30  
NYTMN (km.): 4599.084 NYTME (km.): 598.018 Building: B/323A

Emission Point: GEN09  
Height (ft.): 88 Diameter (in.): 30  
NYTMN (km.): 4599.085 NYTME (km.): 598.021 Building: B/323A

Emission Point: GEN10  
Height (ft.): 88 Diameter (in.): 30  
NYTMN (km.): 4599.087 NYTME (km.): 598.025 Building: B/323A

Emission Point: GEN11  
Height (ft.): 88 Diameter (in.): 30  
NYTMN (km.): 4599.088 NYTME (km.): 598.029 Building: B/323A

**Item 44.5:**

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

Emission Unit: K-00001

Emission Point: OBC4A  
Height (ft.): 273 Diameter (in.): 41  
NYTMN (km.): 4599.042 NYTME (km.): 598.46

Emission Point: OBC4S  
Height (ft.): 35 Diameter (in.): 24  
NYTMN (km.): 4599.6 NYTME (km.): 598.07 Building: B/320B

Emission Point: BCONC  
Height (ft.): 54 Diameter (in.): 20  
NYTMN (km.): 4599.6 NYTME (km.): 598.04 Building: B/320B

Emission Point: BOXID  
Height (ft.): 54 Diameter (in.): 10  
NYTMN (km.): 4599.592 NYTME (km.): 598.043 Building: B/320B

Emission Point: C4ACI  
Height (ft.): 32 Diameter (in.): 36

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NYTMN (km.): 4599.042 NYTME (km.): 598.46 Building: B/320B

Emission Point: C4SOL

Height (ft.): 32 Diameter (in.): 16  
NYTMN (km.): 4599.042 NYTME (km.): 598.46 Building: B/320B

Emission Point: JAY29

Height (ft.): 45 Diameter (in.): 42  
NYTMN (km.): 4599.966 NYTME (km.): 598.305 Building: B/330D

Emission Point: JAY30

Height (ft.): 45 Diameter (in.): 42  
NYTMN (km.): 4598.957 NYTME (km.): 598.308 Building: B/330D

**Condition 45: Process Definition By Emission Unit  
Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 45.1:**

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:

EIGHT 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

Emission Source/Control: 00007 - Combustion

Emission Source/Control: 00008 - Combustion

**Item 45.2:**

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:

EIGHT 72 MMBTU/HR BOILERS BURNING NATURAL  
GAS (WITH 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  
Emission Source/Control: 00007 - Combustion  
Emission Source/Control: 00008 - Combustion

**Item 45.3:**

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 45.4:**

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

Emission Unit: B-00001  
Process: 317 Source Classification Code: 3-13-065-99  
Process Description: Chemical Handling B/317  
Emission Source/Control: 1O181 - Process

**Item 45.5:**

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 45.6:**

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

Emission Unit: C-00001  
Process: 0J1 Source Classification Code: 3-13-065-99  
Process Description: CASTING IN B/330  
Emission Source/Control: 0RTO3 - Control



Control Type: THERMAL OXIDATION

Emission Source/Control: 0RTO4 - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: 090AA - Process

**Item 45.7:**

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

Emission Unit: I-00001  
Process: 0WF Source Classification Code: 3-13-065-99  
Process Description: WAFER FABRICATION B/323 & B323A

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: VTRO2 - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: VTRO3 - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: 0AA01 - Process

**Item 45.8:**

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: 387AA - Process

Emission Source/Control: 472AA - Process

Emission Source/Control: ELE01 - Process

Emission Source/Control: H0024 - Process

Emission Source/Control: PLT01 - Process

Emission Source/Control: PLT02 - Process

Emission Source/Control: PLT04 - Process



Emission Source/Control: PLTE1 - Process

**Condition 46: Compliance Certification**  
Effective between the dates of 01/04/2012 and 01/03/2017

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

**Item 46.1:**

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 46.2:**

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 1/30/2013.  
Subsequent reports are due every 12 calendar month(s).

**Condition 47: Compliance Certification**  
Effective between the dates of 01/04/2012 and 01/03/2017



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

**Item 47.1:**

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: ELE01
Emission Unit: K-00001 Process: C4P	Emission Source: H0024
Emission Unit: K-00001 Process: C4P	Emission Source: PLT01
Emission Unit: K-00001 Process: C4P	Emission Source: PLT02
Emission Unit: K-00001 Process: C4P	Emission Source: PLT04
Emission Unit: K-00001 Process: C4P	Emission Source: PLTE1

**Item 47.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

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

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

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



- (3) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable.
- (4) Use tank covers, if already owned and available at the facility, whenever practicable.
- (5) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality).
- (6) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable.
- (7) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable.
- (8) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable.
- (9) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable.
- (10) Minimize spills and overflow of tanks, as practicable.
- (11) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable.
- (12) Perform regular inspections to identify leaks and other opportunities for pollution prevention.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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



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

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

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

**STATE ONLY APPLICABLE REQUIREMENTS**  
**The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 48: Contaminant List**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable State Requirement:ECL 19-0301**

**Item 48.1:**  
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: 000096-48-0  
Name: DIHYDRO 2(3H)-FURANONE

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

CAS No: 000108-65-6  
Name: 2-PROPANOL, 1-METHOXY-, ACETATE

CAS No: 000123-86-4  
Name: ACETIC ACID, BUTYL ESTER

CAS No: 000872-50-4  
Name: 1-METHYL-2-PYRROLIDONE

CAS No: 001333-74-0  
Name: HYDROGEN

CAS No: 007446-09-5  
Name: SULFUR DIOXIDE

CAS No: 007664-41-7  
Name: AMMONIA

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

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

**Condition 49: Unavoidable noncompliance and violations**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 49.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment 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 commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for



equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) 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.

**Condition 50: Visible Emissions Limited**  
**Effective between the dates of 01/04/2012 and 01/03/2017**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 50.1:**

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.

