



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 4-4224-00001/00103
Effective Date: 12/08/2017 Expiration Date: 12/07/2022

Permit Issued To: GENERAL ELECTRIC COMPANY
33-41 Farnsworth St
Boston, MA 02210

Contact: CAROL RYAN
GE GLOBAL RESEARCH
1 RESEARCH CIR
SCHENECTADY, NY 12309
(518) 387-6955

Facility: GE GLOBAL RESEARCH CENTER
1 RESEARCH CIR
NISKAYUNA, NY 12309

Contact: David West
G E GLOBAL RESEARCH
1 RESEARCH CIR
NISKAYUNA, NY 12309
(518) 387-7289

Description:

An application was submitted by GE Global Research Center to renew the Air Title V Permit for this facility. This permit renewal updates NOx emission factors, removes the sulfur cap based on applicable regulations, and updates facility information.

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.

New York State Department of Environmental Conservation
Facility DEC ID: 4422400001



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: NANCY M BAKER
 NYSDEC - REGION 4
 1130 N WESTCOTT RD
 SCHENECTADY, NY 12306-2014

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 4 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 the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by



the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 4 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 4 Headquarters
Division of Environmental Permits
1130 North Westcott Rd.
Schenectady, NY 12306-2014
(518) 357-2069

New York State Department of Environmental Conservation

Permit ID: 4-4224-00001/00103

Facility DEC ID: 4422400001



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: GENERAL ELECTRIC COMPANY
33-41 Farnsworth St
Boston, MA 02210

Facility: GE GLOBAL RESEARCH CENTER
1 RESEARCH CIR
NISKAYUNA, NY 12309

Authorized Activity By Standard Industrial Classification Code:

2821 - PLASTICS MATERIALS AND RESINS
3511 - TURBINES AND TURBINE GENERATOR
3844 - X-RAY APPARATUS AND TUBES
3845 - ELECTROMEDICAL EQUIPMENT
8731 - COMMERCIAL PHYSICAL RESEARCH
3674 - SEMICONDUCTORS & RELATED DEVICES
3724 - AIRCRAFT ENGINES & ENGINE PART

Permit Effective Date: 12/08/2017

Permit Expiration Date: 12/07/2022



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (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 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR 201-6.4 (f): Compliance Certification
- 24 6 NYCRR 201-6.4 (f): Compliance Certification
- 25 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *26 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *27 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 28 6 NYCRR 202-1.2: Notification
- 29 6 NYCRR 202-1.3 (a): Acceptable procedures
- 30 6 NYCRR 202-1.5: Prohibitions
- 31 6 NYCRR 202-2.3: Required contents of an emission statement.
- 32 6 NYCRR Part 207: Submittal of Episode Action Plans
- 33 6 NYCRR 211.1: Air pollution prohibited
- 34 6 NYCRR 212-1.6 (a): Compliance Certification
- 35 6 NYCRR 212-3.1 (c) (1): Required Compliance Plans for applicable 212-3 emission sources
- 36 6 NYCRR 225-1.2: Compliance Certification
- 37 6 NYCRR 225-1.6 (e): Compliance Certification
- 38 6 NYCRR 225-2.6 (c): Sale of waste fuel prohibitions.
- 39 6 NYCRR Part 226: Compliance Certification
- 40 6 NYCRR 227-1.3 (a): Compliance Certification
- 41 6 NYCRR 227-1.6 (b): Corrective action.
- 42 6 NYCRR 227-1.6 (c): Corrective action.

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- 43 6 NYCRR 227-1.6 (d): Corrective action.
- 44 6 NYCRR 227-2.4 (d): Compliance Certification
- 45 6 NYCRR 227-2.5 (a): Compliance Certification
- 46 6 NYCRR 227-2.5 (a): Compliance Certification
- 47 6 NYCRR 230.5 (a): Compliance Certification
- 48 40CFR 61, NESHAP Subpart M: National Emission Standard for Asbestos
- 49 40CFR 63.11116, NESHAP Subpart CCCCC: Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline
- 50 40CFR 63, Subpart JJJJJ: Applicability
- 51 40CFR 63.6590(c), Subpart ZZZZ: Stationary RICE subject to Regulations under 40 CFR Part 60

Emission Unit Level

- 52 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 53 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 54 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions

EU=A-10000

- 55 6 NYCRR 227-1.3 (a): Compliance Certification

EU=B-18201

- *56 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=B-18201,EP=18201

- 57 6 NYCRR 227-1.3: Compliance Certification
- 58 6 NYCRR 227-1.3 (a): Compliance Certification

EU=B-18201,EP=18201,Proc=B01,ES=BL400

- 60 6 NYCRR 227-2.5 (a): Compliance Certification

EU=B-18201,EP=18201,Proc=B01,ES=BL500

- 59 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=B-18201,EP=18201,Proc=B02,ES=BL500

- 61 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification

EU=E-17624

- *62 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 63 40CFR 63.11507(f)(1), Subpart WWWW: Compliance Certification
- 64 40CFR 63.11508(c)(9), Subpart WWWW: Existing Permanent Thermal Spraying Initial Compliance
- 65 40CFR 63.11508(d)(1), Subpart WWWW: Operation and Maintenance of Air Pollution Equipment
- 66 40CFR 63.11508(d)(2), Subpart WWWW: Compliance Certification
- 67 40CFR 63.11508(d)(4), Subpart WWWW: Compliance Certification
- 68 40CFR 63.11509(c)(2), Subpart WWWW: Control System Annual Compliance Report
- 69 40CFR 63.11509(c)(7), Subpart WWWW: Annual Compliance Report
- 70 40CFR 63.11509(d), Subpart WWWW: Compliance Certification
- 71 40CFR 63.11509(e), Subpart WWWW: Compliance Certification
- 72 40CFR 63.11509(f), Subpart WWWW: Compliance Certification



EU=E-17624,Proc=E22

73 6 NYCRR 212-2.4 (b): Compliance Certification

EU=H-17659

74 40CFR 60.48c(g)(2), NSPS Subpart Dc: Alternative Recordkeeping

EU=H-17659,Proc=H01,ES=AP300

75 6 NYCRR 227-1.3 (a): Compliance Certification

EU=H-17659,EP=17659,Proc=H01,ES=AP300

76 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A

77 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.

78 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

EU=I-19000

79 6 NYCRR 212-2.1 (b): Compliance Certification

EU=I-19000,Proc=I01

80 40CFR 63.11507(g), Subpart WWWW: Compliance Certification

81 40CFR 63.11508(c)(3), Subpart WWWW: Tank Covering Initial Compliance – Batch Process

82 40CFR 63.11508(d)(1), Subpart WWWW: Compliance Certification

83 40CFR 63.11508(d)(2), Subpart WWWW: Compliance Certification

84 40CFR 63.11508(d)(6), Subpart WWWW: Compliance Certification

85 40CFR 63.11508(d)(8), Subpart WWWW: Compliance Certification

86 40CFR 63.11509(c)(4), Subpart WWWW: Batch and Flash or Short-Term Annual Compliance Report – Tank Covering

87 40CFR 63.11509(c)(6), Subpart WWWW: Management Practices Annual Compliance Report

88 40CFR 63.11509(c)(7), Subpart WWWW: Annual Compliance Report

89 40CFR 63.11509(d), Subpart WWWW: Compliance Certification

90 40CFR 63.11509(e), Subpart WWWW: Compliance Certification

91 40CFR 63.11509(f), Subpart WWWW: Compliance Certification

EU=P-17021

*92 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=P-17021,Proc=P01

93 6 NYCRR 228-1.3 (a): Compliance Certification

EU=P-17021,EP=17021

94 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A

95 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.

96 40CFR 60.310(c), NSPS Subpart EE: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

97 ECL 19-0301: Contaminant List

98 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

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99 6 NYCRR 211.2: Visible Emissions Limited
Emission Unit Level

EU=B-18201,EP=18201,Proc=B01

100 6 NYCRR 227-1.2 (a) (2): Compliance Demonstration

EU=E-17624,Proc=E22

101 6 NYCRR 212-2.1: Compliance Demonstration

102 6 NYCRR 212-2.1: Compliance Demonstration

103 6 NYCRR 212-2.3 (b): Compliance Demonstration

EU=I-19000

104 6 NYCRR 212-2.1 (a): Compliance Demonstration

EU=S-17260,Proc=S02

105 6 NYCRR 212-2.1: Compliance Demonstration

106 6 NYCRR 212-2.3 (b): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



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

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

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

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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



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

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

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

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

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

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 12/08/2017 and 12/07/2022**

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where



reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements,



the report shall be contained in the 6 month monitoring report required above.

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

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

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

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual



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

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 6: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as



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

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

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

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

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 4 Headquarters
1130 North Westcott Road
Schenectady, NY 12306-2014

The address for the BQA is as follows:

NYSDEC

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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 1/30/2018.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Condition 8: Recordkeeping requirements
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

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

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

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

(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 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 215.2



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 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Condition 11: Recycling and Salvage
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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

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

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

No person shall unnecessarily remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 13.1:

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

Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 12/08/2017 and 12/07/2022



Emission Unit Description:

This emission unit consists of five package boilers located in the Boiler House (Building #6) routed to a common stack. The boilers have the following design heat input ratings: Boiler Numbers 1, 2, and 3: 32.7 MMBtu/hr each, Boiler Number 4: 65.6 MMBtu/hr, and Boiler Number 5: 60 MMBtu/hr. Boiler Numbers 1, 2, 3 and 5 are capable of burning either natural gas or fuel oil. Boiler Number 4 is capable of burning only fuel oil and incapable of being retrofitted to burn natural gas. Two processes (B01, B02) were defined for this emission unit consisting of burning No. 6 fuel oil, natural gas.

Building(s): 6

Item 21.3:

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

Emission Unit: E-17624

Emission Unit Description:

This emission unit consists of equipment located in the Metallurgy and Ceramics (MET) Building, and associated air emission control equipment, including 5 existing thermal spray cells. The spray cells are used for spray forming using materials that include metal-based alloys, and metal and ceramic powders. Dust collectors, which are integral to the processes, are used to control particulate emissions exhausted from the spray cells. Thermal spray processes include plasma arc and High Velocity Oxy-Fuel (HVOF). The HVOF process uses fuels such as hydrogen, natural gas, and C3/C4 liquefied hydrocarbons. The spray processes are conducted for R&D purposes, but may be used occasionally for limited-scale manufacturing. Therefore, two processes (E21 and E22) are used to define these activities.

Building(s): 2

Item 21.4:

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

Emission Unit: H-17659

Emission Unit Description:

This emission unit consists of one 28 MMBtu/hour natural gas fired indirect air preheater located in the Engineering Systems Building (#4) that is used to supply heated combustion air to the combustion test cell operations. Since this air preheater is only capable of burning natural gas, only one process was defined (H01).

Building(s): 4

Item 21.5:

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



Emission Unit: I-19000

Emission Unit Description:

This emission unit is a non-chromium electroplating process that includes two (2) electrolytic plating tanks. Polypropylene balls are used to reduce misting, and the tanks are fitted with covers to further reduce emissions during plating operations.

One of the electroplating tanks (TANK1) is subject to 40 CFR Part 63, Subpart WWWW. The second electroplating tank (TANK2) is a very small bench-top operation that is not subject to Subpart WWWW due to the exclusion of bench-top operations.

Building(s): 1

Item 21.6:

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

Emission Unit: P-17021

Emission Unit Description:

This emission unit consists of a paint spray booth and associated paint filter located in the Main R&D Building K-1 (#1) used for limited-volume coating of miscellaneous metal parts, metal furniture, and wood finishing. Metal furniture coating is done solely for on-site maintenance purposes. No painting is done as a part of a manufacturing or retail operation. Two processes (P01 and P02) were defined representing painting with VOC compliant coatings and with Department-approved specialty coatings.

Building(s): 1

Item 21.7:

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

Emission Unit: S-17260

Emission Unit Description:

This emission unit consists of operations associated with the VLSI and PSF "clean room" operations located in the K-West Building (#10). Both electronic systems research and polymer studies are conducted in the building. The VLSI process area consists of equipment capable of being used to conduct electronics research and limited manufacturing in the areas of GE-proprietary detector development, multi-chip modules, silicon, and silicon carbide. Each of these processes exhausts through one of four stacks. This emission unit represents the grouping of existing permits for former "emission point" nos. 17259 and 17260. The clean rooms are normally used for R&D, but potentially could be used for limited-scale manufacturing.

Two processes (S01 and S02) were defined to represent these activities.

Building(s): 10



Condition 22: Progress Reports Due Semiannually
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 22.1:

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 23: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 23.1:

The Compliance Certification activity will be performed for the Facility.

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In the event of a new or modified limited-scale manufacturing operation, the facility will evaluate emissions in accordance with operational flexibility provisions of 6 NYCRR 201-6.4(f). If the estimated emission rate potential for a contaminant(s) will result in emission impacts that will exceed annual guideline concentrations (AGC), the facility may choose to limit operations to avoid the AGC exceedance without reopening the Permit. Records to demonstrate the operating limitations are met will be maintained, and the operating limitation will be incorporated into the Permit upon the next modification or renewal.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 24: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (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 Plan

I. Protocol Objective

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

II. Protocol

A. Criteria

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

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

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

c. The facility shall not use the protocol to make physical changes or changes in the method of operation of existing emissions sources that would require a new or modified federally enforceable cap either to avoid major NSR requirements or to address and comply with other Clean Air Act requirements, such as RACT. Such changes must be addressed via the significant permit modification provisions.

B. Notification Requirements for Changes Reviewed under



the Protocol

1. The facility shall notify the Department in writing of the proposed change.
2. Notifications made in accordance with this protocol will include the following documentation:
 - a. Identification of the Title V permit emission unit, process(es), emission sources and emission points affected by the proposed change with applicable revisions to the Emission Unit structure;
 - b. Description of the proposed change, including operating parameters;
 - c. Identification and description of emissions control technology;
 - d. Documentation of the project's, or emission source's, compliance with respect to all state and/or federally applicable requirements, including the following steps:
 - i. Calculate the emission rate potential and maximum projected actual annual emission rates for all contaminants affected by the change.
 - ii. Submit documentation of major NSR program non-applicability for NYSDEC review and approval.
 - iii. Identify and evaluate the applicability of all regulations likely to be triggered by the new or changed emission source.
 - iv. Propose any operating and record keeping procedures necessary to ensure compliance.
 - e. Any other relevant information used for the evaluation of the proposed project or emission source under the Protocol.

C. Review and Approval of Changes

1. The Department shall respond to the permittee in writing with a determination within 15 days of receipt of the notification of the permittee.
2. The Department may require a permit modification, in order to impose new applicable requirements or additional permit conditions if it determines that changes proposed



pursuant to notification do not meet the criteria under II. A above or that the changes may have a significant air quality impact or be otherwise potentially significant under SEQRA (6 NYCRR Part 617).

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

D. Additional Compliance Obligations for Changes Made Under this Protocol

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

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Facility Permissible Emissions
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 25.1:

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

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

CAS No: 0NY075-00-0 PTE: 100,000 pounds per year
Name: PARTICULATES

CAS No: 0NY100-00-0 PTE: 50,000 pounds per year
Name: TOTAL HAP

CAS No: 0NY210-00-0 PTE: 275,000 pounds per year
Name: OXIDES OF NITROGEN

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

PTE: 100,000 pounds per year

Condition 26: Capping Monitoring Condition
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 26.1:

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

6 NYCRR Subpart 201-6

Item 26.2:

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

Item 26.3:

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

Item 26.4:

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

Item 26.5:

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

Item 26.6:

The Compliance Certification activity will be performed for the Facility.

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

Item 26.7:

Compliance Certification shall include the following monitoring:

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

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6 NYCRR Subpart 201-6

Item 27.2:

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

Item 27.3:

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

Item 27.4:

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

Item 27.5:

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

Item 27.6:

The Compliance Certification activity will be performed for the Facility.

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

Item 27.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Records shall be maintained that indicate emissions of hazardous air pollutants (HAP). Emissions of HAP from sources at this facility shall be less than 50,000 pounds over any 12 consecutive months, and emissions of any single HAP shall be less than 20,000 pounds over any 12 consecutive months.

Emissions of HAP from sources at this facility will be based on emission factors and production factors that will be applied, as appropriate, to material usage records, operating records, production records, or fuel usage records. Emission factors and production factors used to

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develop the application for this permit are acceptable for calculating HAP emissions.

GE may propose updated and new emission and production factors for approval by the Department. The updated emission and production factors will not be used without the Department's approval.

Emissions from Exempt and Trivial activities shall be included in rolling monthly calculations, but will not require pre-approval for changes to emission and production factors used in these calculations.

Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance. Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations, as necessary, shall be retained for five years after the date of the last entry, and upon request, shall be made available to the Department for review.

Parameter Monitored: TOTAL HAP
Upper Permit Limit: 25 tons per year
Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 12 calendar month(s).

Condition 28: Notification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 28.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 29: Acceptable procedures
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 202-1.3 (a)

Item 29.1:

Emission testing, sampling and analytical determinations to ascertain compliance with this Subchapter shall be conducted in accordance with test methods acceptable to the commissioner. The Reference Methods contained in part 60, appendix A and part 61, appendix B of title 40 of



Applicable Federal Requirement:6 NYCRR Part 207

Item 32.1:

An episode action plan must be submitted for approval by the Department in accordance with the requirements of 6NYCRR Part 207. The plan shall contain detailed steps which will be taken by the facility to reduce air contaminant emissions during each stage of an air pollution episode. Once approved, the facility shall take whatever actions are prescribed by the episode action plan when an air pollution episode is in effect.

Condition 33: Air pollution prohibited
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 211.1

Item 33.1:

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 34: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 34.1:

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

Emission Unit: E-17624
Process: E22

Emission Unit: S-17260
Process: S02

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water.

The facility owner/operator shall conduct a Method 9 observation by a certified person of all emission points



and/or emission sources for the process(es) twice per year if the emission unit was operated in a manufacturing (non R&D) mode during the prior six-month period. The observation shall be conducted during daylight hours, except during conditions of extreme weather (fog, snow, rain).

If the observation of the emission point and/or emission source is 20 percent or greater the operator must notify the Regional Air Pollution Control Engineer (RAPCE) within one business day of performing the Method 9 analysis. Upon RAPCE notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance. Records of observations shall include weather conditions observed, an explanation for each week that weather conditions are prohibitive, average opacity, and corrective actions taken.

Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Department review.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 35: Required Compliance Plans for applicable 212-3 emission sources

Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 35.1:

The compliance plan must identify RACT for each emission point that emits NO_x for major NO_x facilities or VOC for major VOC facilities. The compliance plan must identify the emission points that do not employ RACT, and a schedule for implementation of RACT must be included in the plan. A RACT analysis is not required for emission points with NO_x and VOC emission rate potentials less than 3.0 pounds per hour and actual emissions in the absence of control equipment less than 15.0 pounds per day at facilities located in the Lower Orange County towns

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of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, and Woodbury and New York City metropolitan area.

A RACT analysis is not required for emission points with NOx and VOC emission rate potentials less than 3.0 pounds per hour at facilities located outside of the Lower Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, and Woodbury and New York City metropolitan area. RACT as approved by the department must be implemented on each emission point subject to this section by May 31, 1995.

Condition 36: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 225-1.2

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: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less and are limited to the firing of distillate oil including number two heating oil with 0.0015 percent sulfur by weight or less.

The department will require fuel analyses, information on the quantity of fuel received, fired or sold, and results of stack sampling, stack monitoring, and other procedures to ensure compliance with the provisions of this Subpart. All records must be maintained at the facility for a minimum of five years.

Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedances takes place.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL



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Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 225-1.6 (e)

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:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 38: Sale of waste fuel prohibitions.
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 225-2.6 (c)

Item 38.1: No person may sell, offer for sale, deliver or exchange in trade any waste fuel except to a facility meeting the applicable requirements of this Subpart and the regulations promulgated pursuant to article 27, titles 7 and 9 and article 23, title 23 of ECL or to a transporter of waste fuel who is permitted under 6 NYCRR Part 364.

Condition 39: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022



Applicable Federal Requirement:6 NYCRR Part 226

Item 39.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A. Equipment Specifications

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

- (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. This does not apply to remote reservoir degreasers.
- (4) Solvent with a vapor pressure of 1.0 mm Hg, or less, at 20 C.

B. Operating Requirements:

When cold cleaning, the clean parts must be drained at least 15 seconds or until dripping ceases.

C. General Requirements:

A Person conducting solvent metal cleaning must:

- (1) 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.
- (2) Maintain equipment to minimize leaks and fugitive emissions.
- (3) Display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs.
- (4) Keep the degreaser cover closed except when:
 - (a) parts are being placed into or being removed from the degreaser;
 - (b) adding or removing solvent from the degreaser;

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operation if the conditions of paragraphs 6 NYCRR Part 227-1.6(a)(1)-(3) are not met within the time provided by the order of final determination issued in the case of the violation.

Condition 42: Corrective action.

Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 227-1.6 (c)

Item 42.1:

No person shall cause, permit, or allow the operation of any affected stationary combustion installation sealed by the commissioner in accordance with this section.

Condition 43: Corrective action.

Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 227-1.6 (d)

Item 43.1:

No person except the commissioner or his representative shall remove, tamper with, or destroy any seal affixed to any affected stationary combustion installation.

Condition 44: Compliance Certification

Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 227-2.4 (d)

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-10000

Process: A01

Emission Source: AP100

Emission Unit: A-10000

Process: A01

Emission Source: AP200

Emission Unit: A-10000

Process: A01

Emission Source: AP400

Emission Unit: A-10000

Process: A01

Emission Source: BL600

Emission Unit: A-10000

Process: A01

Emission Point: A1003

Emission Source: BL700

Emission Unit: A-10000

Process: A01

Emission Source: DHWH2

Emission Unit: H-17659

Process: H01

Emission Source: AP300



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Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A tune-up of this unit, consisting of adjustments made to the combustion process to optimize combustion efficiency of the unit in accordance with procedures provided by the manufacturer (or an approved specialist), shall be performed annually.

The owner or operator of this unit shall maintain documentation, by keeping records as appropriate, to demonstrate compliance. The records shall contain information which includes the date of which the combustion process was adjusted, the name, title and affiliation of the person who made the adjustments, and a checklist of the manufacturer's written procedures completed by the person who made the adjustments. The checklist shall contain the same information as the example checklist included as Appendix A of DAR-5 (formerly Air Guide 33).

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 45: Compliance Certification

Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 227-2.5 (a)

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-18201
Process: B01

Emission Point: 18201
Emission Source: BL100

Emission Unit: B-18201
Process: B01

Emission Point: 18201
Emission Source: BL200

Emission Unit: B-18201
Process: B01

Emission Point: 18201
Emission Source: BL300

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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results, total pounds NOx emitted each month will be estimated using the NOx emission rates for natural gas and No. 6 fuel oil obtained from this testing.

Monitoring Frequency: ANNUALLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR 230.5 (a)

Item 47.1:
The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 008006-61-9 GASOLINE

Item 47.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner and/or operator of any gasoline dispensing site must maintain records showing the sum of all gasoline deliveries during the previous 12 consecutive months. This rolling total will be used to determine if the annual throughput exceeds 120,000 gallons thereby making the site subject to the requirements of 230.2. The appropriate Stage I and Stage II vapor collection systems must be in place prior to any site exceeding the 120,000 gallons in annual throughput. These records must be maintained at the site for a period of five years and be made available to Department representatives on request during normal business hours.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 48: National Emission Standard for Asbestos
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 61, NESHAP Subpart M

Item 48.1:
The permittee shall comply with all applicable provisions of 40 CFR Part 61, Subpart M.



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Condition 49: Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11116, NESHAP Subpart CCCCCC

Item 49.1:

The owner or operator must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (1) Minimize gasoline spills;
- (2) Clean up spills as expeditiously as practicable;
- (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

The owner or operator is not required to submit notifications or reports as specified in 40 CFR 63.11125, 40 CFR 63.11126, or Subpart A of Part 63, but he/she must have records available within 24 hours of a request by the Administrator to document the gasoline throughput.

The owner or operator must comply with the requirements of Subpart CCCCCC by the applicable dates specified in 40 CFR 63.11113.

Portable gasoline containers that meet the requirements of 40 CFR Part 59, Subpart F, are considered acceptable for compliance with paragraph (3) above.

Condition 50: Applicability Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63, Subpart JJJJJJ

Item 50.1:

Facilities that are area sources of HAP with industrial, commercial, or institutional boilers must comply with applicable portions of 40 CFR 63 JJJJJJ.

Condition 51: Stationary RICE subject to Regulations under 40 CFR Part 60 Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.6590(c), Subpart ZZZZ

Item 51.1:

An affected source that meets any of the criteria listed below must meet the requirements of this

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part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

- new or reconstructed stationary RICE located at an area source,
- new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake horsepower located at a major source of HAP emissions,
- new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis,
- new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions.

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

Condition 52: Emission Point Definition By Emission Unit
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 52.1:

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

Emission Unit: A-10000			
Emission Point: 17657			
Height (ft.): 34	Diameter (in.): 18		
NYTMN (km.): 4742.53	NYTME (km.): 591.794	Building: 4	
Emission Point: 17658			
Height (ft.): 51	Diameter (in.): 33		
NYTMN (km.): 4742.53	NYTME (km.): 591.794	Building: 4	
Emission Point: A1001			
Height (ft.): 71	Diameter (in.): 18		
NYTMN (km.): 4742.53	NYTME (km.): 591.794	Building: 4	
Emission Point: A1003			
Height (ft.): 93	Diameter (in.): 16		
NYTMN (km.): 4742.53	NYTME (km.): 591.794	Building: 1	

Item 52.2:

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



Emission Unit: B-18201

Emission Point: 18201
Height (ft.): 130 Diameter (in.): 96
NYTMN (km.): 4742.492 NYTME (km.): 592.082 Building: 6

Item 52.3:

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

Emission Unit: E-17624

Emission Point: 17602
Height (ft.): 33 Diameter (in.): 32
NYTMN (km.): 4742.513 NYTME (km.): 592.15

Emission Point: 17624
Height (ft.): 34 Diameter (in.): 29
NYTMN (km.): 4742.511 NYTME (km.): 592.158 Building: 2

Emission Point: 17626
Height (ft.): 35 Length (in.): 73 Width (in.): 50
NYTMN (km.): 4742.491 NYTME (km.): 592.099 Building: 2

Emission Point: 17628
Height (ft.): 35 Diameter (in.): 28
NYTMN (km.): 4742.514 NYTME (km.): 592.141 Building: 2

Item 52.4:

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

Emission Unit: H-17659

Emission Point: 17659
Height (ft.): 42 Length (in.): 51 Width (in.): 16
NYTMN (km.): 4742.53 NYTME (km.): 591.794 Building: 4

Item 52.5:

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

Emission Unit: I-19000

Emission Point: 17004
Height (ft.): 54 Diameter (in.): 14
NYTMN (km.): 4742.487 NYTME (km.): 591.869 Building: 1

Emission Point: 17015
Height (ft.): 42 Length (in.): 24 Width (in.): 39
NYTMN (km.): 4742.473 NYTME (km.): 592.85 Building: 1

Item 52.6:

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



Emission Unit: P-17021

Emission Point: 17021
Height (ft.): 45 Diameter (in.): 23
NYTMN (km.): 4742.624 NYTME (km.): 592.033 Building: 1

Item 52.7:

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

Emission Unit: S-17260

Emission Point: 17250
Height (ft.): 41 Diameter (in.): 32
NYTMN (km.): 4742.679 NYTME (km.): 591.518 Building: 10

Emission Point: 17251
Height (ft.): 37 Diameter (in.): 9
NYTMN (km.): 4742.684 NYTME (km.): 591.522 Building: 10

Emission Point: 17252
Height (ft.): 52 Diameter (in.): 32
NYTMN (km.): 4742.699 NYTME (km.): 591.514 Building: 10

Emission Point: 17253
Height (ft.): 52 Diameter (in.): 36
NYTMN (km.): 4742.697 NYTME (km.): 591.514 Building: 10

**Condition 53: Process Definition By Emission Unit
Effective between the dates of 12/08/2017 and 12/07/2022**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 53.1:

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

Emission Unit: A-10000
Process: A01 Source Classification Code: 1-03-006-03

Process Description:
This process consists of miscellaneous small combustion units (20MMBtu/hr) burning only natural gas. There are 5 units (<10 MMBtu/hr) with SCC code 1-03-006-03 and 1 unit (10-100 MMBtu/hr) with SCC Code 1-03-006-02.

Emission Source/Control: AP100 - Combustion
Design Capacity: 8.3 million Btu per hour

Emission Source/Control: AP200 - Combustion
Design Capacity: 12.1 million Btu per hour

Emission Source/Control: AP400 - Combustion
Design Capacity: 7 million Btu per hour

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Emission Source/Control: BL600 - Combustion
Design Capacity: 6.8 million Btu per hour

Emission Source/Control: BL700 - Combustion
Design Capacity: 1.5 million Btu per hour

Emission Source/Control: DHWH2 - Combustion
Design Capacity: 1.6 million BTUs per hour

Item 53.2:

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

Emission Unit: B-18201
Process: B01 Source Classification Code: 1-03-004-01
Process Description:
Boiler Nos. 1, 2, 3, 4 and 5 are all capable of firing fuel oil. This process was created to allow the burning of No. 6 fuel oil in any of the boilers

Emission Source/Control: BL100 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BL200 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BL300 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BL400 - Combustion
Design Capacity: 65.6 million Btu per hour

Emission Source/Control: BL500 - Combustion
Design Capacity: 60 million Btu per hour

Item 53.3:

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

Emission Unit: B-18201
Process: B02 Source Classification Code: 1-03-006-02
Process Description:
Only Boiler Nos. 1, 2, 3 and 5 are capable of burning natural gas. This process was created to allow the burning of natural gas in Boiler Nos. 1, 2, 3 and 5.

Emission Source/Control: BL100 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BL200 - Combustion
Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BL300 - Combustion

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Design Capacity: 32.7 million Btu per hour

Emission Source/Control: BL500 - Combustion

Design Capacity: 60 million Btu per hour

Item 53.4:

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

Emission Unit: E-17624

Process: E21

Source Classification Code: 3-09-040-20

Process Description:

This process consists of the spray cells operating in a R&D mode.

Emission Source/Control: BH001 - Control

Control Type: FABRIC FILTER

Emission Source/Control: BH002 - Control

Control Type: FABRIC FILTER

Emission Source/Control: BH003 - Control

Control Type: FABRIC FILTER

Emission Source/Control: BH004 - Control

Control Type: FABRIC FILTER

Emission Source/Control: BH005 - Control

Control Type: FABRIC FILTER

Emission Source/Control: HEPA1 - Control

Control Type: FABRIC FILTER

Emission Source/Control: HEPA2 - Control

Control Type: FABRIC FILTER

Emission Source/Control: HEPA3 - Control

Control Type: FABRIC FILTER

Emission Source/Control: HEPA4 - Control

Control Type: FABRIC FILTER

Emission Source/Control: HEPA5 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: SC001 - Process

Design Capacity: 50 pounds per hour

Emission Source/Control: SC002 - Process

Design Capacity: 50 pounds per hour

Emission Source/Control: SC003 - Process

Design Capacity: 50 pounds per hour



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Emission Source/Control: SC003 - Process
Design Capacity: 50 pounds per hour

Emission Source/Control: SC004 - Process
Design Capacity: 50 pounds per hour

Emission Source/Control: SC005 - Process
Design Capacity: 50 pounds per hour

Item 53.6:

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

Emission Unit: H-17659
Process: H01 Source Classification Code: 1-03-006-02
Process Description:
This process consists of one air preheater associated with the test cells. It is only capable of burning natural gas.

Emission Source/Control: AP300 - Combustion
Design Capacity: 28 million Btu per hour

Item 53.7:

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

Emission Unit: I-19000
Process: I01 Source Classification Code: 3-09-010-97
Process Description:
This process consists of non-chromium electroplating in a single tank. The tank is equipped with a cover that is used during plating operations to minimize emissions.

Emission Source/Control: COVR1 - Control
Control Type: SECONDARY SEAL FOR EXTERNAL ROOF TANK

Emission Source/Control: TANK1 - Process

Item 53.8:

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

Emission Unit: I-19000
Process: I02 Source Classification Code: 3-09-010-97
Process Description:
This process consists of a bench top electroplating bath that is not subject to 40 CFR Part 63 Subpart WWWW.

Emission Source/Control: COVR2 - Control
Control Type: SECONDARY SEAL FOR EXTERNAL ROOF TANK

Emission Source/Control: TANK2 - Process

Item 53.9:

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

Emission Unit: P-17021

Process: P01

Source Classification Code: 4-02-002-10

Process Description:

This process consists of utilizing volatile organic compound (VOC) compliant coatings (in compliance with 6 NYCRR 228-1.4) in the spray paint booth.

Emission Source/Control: PF100 - Control

Control Type: MAT OR PANEL FILTER

Emission Source/Control: PB100 - Process

Item 53.10:

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

Emission Unit: P-17021

Process: P02

Source Classification Code: 4-02-001-10

Process Description:

This process consists of utilizing up to 55 gallons per year of specialty coatings approved by the Department as defined in 6 NYCRR 228 in the spray paint booth.

Emission Source/Control: PF100 - Control

Control Type: MAT OR PANEL FILTER

Emission Source/Control: PB100 - Process

Item 53.11:

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

Emission Unit: S-17260

Process: S01

Source Classification Code: 3-13-065-05

Process Description:

This process consists of conducting research in the VLSI and PSF "clean room" operations.

Emission Source/Control: BB100 - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: BB300 - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: DO100 - Control

Control Type: FABRIC FILTER

Emission Source/Control: FS100 - Control

Control Type: WET SCRUBBER

Emission Source/Control: FS200 - Control

Control Type: WET SCRUBBER

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Emission Source/Control: FS300 - Control
Control Type: WET SCRUBBER

Emission Source/Control: FS400 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AH200 - Process

Emission Source/Control: AH300 - Process

Emission Source/Control: AH400 - Process

Emission Source/Control: AH500 - Process

Emission Source/Control: AH600 - Process

Emission Source/Control: AH700 - Process

Emission Source/Control: AS100 - Process

Emission Source/Control: ASTEP - Process

Emission Source/Control: BC100 - Process

Emission Source/Control: BC200 - Process

Emission Source/Control: BC300 - Process

Emission Source/Control: BK100 - Process

Emission Source/Control: BK200 - Process

Emission Source/Control: BK300 - Process

Emission Source/Control: BK400 - Process

Emission Source/Control: BK500 - Process

Emission Source/Control: CDS01 - Process

Emission Source/Control: CEME1 - Process

Emission Source/Control: CHAEV - Process

Emission Source/Control: CV400 - Process

Emission Source/Control: CV500 - Process

Emission Source/Control: CV600 - Process

Emission Source/Control: CV700 - Process



- Emission Source/Control: DDSAW - Process
- Emission Source/Control: DV200 - Process
- Emission Source/Control: DV300 - Process
- Emission Source/Control: DVCE1 - Process
- Emission Source/Control: DVSMD - Process
- Emission Source/Control: DVSS1 - Process
- Emission Source/Control: DY100 - Process
- Emission Source/Control: DY200 - Process
- Emission Source/Control: DY300 - Process
- Emission Source/Control: DY400 - Process
- Emission Source/Control: EX100 - Process
- Emission Source/Control: EX200 - Process
- Emission Source/Control: EX300 - Process
- Emission Source/Control: GC100 - Process
- Emission Source/Control: GV100 - Process
- Emission Source/Control: GV200 - Process
- Emission Source/Control: GV300 - Process
- Emission Source/Control: GV400 - Process
- Emission Source/Control: GV500 - Process
- Emission Source/Control: HD200 - Process
- Emission Source/Control: HD300 - Process
- Emission Source/Control: HD400 - Process
- Emission Source/Control: HD500 - Process
- Emission Source/Control: HD600 - Process
- Emission Source/Control: HD700 - Process
- Emission Source/Control: HD800 - Process



- Emission Source/Control: HD900 - Process
- Emission Source/Control: HDA00 - Process
- Emission Source/Control: HDA01 - Process
- Emission Source/Control: HDA02 - Process
- Emission Source/Control: HDA03 - Process
- Emission Source/Control: HDA04 - Process
- Emission Source/Control: HDA05 - Process
- Emission Source/Control: HDB00 - Process
- Emission Source/Control: HDC00 - Process
- Emission Source/Control: HDD00 - Process
- Emission Source/Control: HP200 - Process
- Emission Source/Control: HP300 - Process
- Emission Source/Control: HRE01 - Process
- Emission Source/Control: HRE02 - Process
- Emission Source/Control: HRE03 - Process
- Emission Source/Control: HRE04 - Process
- Emission Source/Control: LZ300 - Process
- Emission Source/Control: LZ400 - Process
- Emission Source/Control: MC200 - Process
- Emission Source/Control: OV100 - Process
- Emission Source/Control: OV200 - Process
- Emission Source/Control: OV300 - Process
- Emission Source/Control: OV400 - Process
- Emission Source/Control: OV500 - Process
- Emission Source/Control: OV600 - Process
- Emission Source/Control: OV700 - Process

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- Emission Source/Control: OV800 - Process
- Emission Source/Control: OV900 - Process
- Emission Source/Control: OVA00 - Process
- Emission Source/Control: OVB00 - Process
- Emission Source/Control: OVC00 - Process
- Emission Source/Control: OVD00 - Process
- Emission Source/Control: OVE00 - Process
- Emission Source/Control: OVF00 - Process
- Emission Source/Control: OVG00 - Process
- Emission Source/Control: OVH00 - Process
- Emission Source/Control: OVI00 - Process
- Emission Source/Control: OVJ00 - Process
- Emission Source/Control: PL100 - Process
- Emission Source/Control: PL200 - Process
- Emission Source/Control: PL300 - Process
- Emission Source/Control: PL400 - Process
- Emission Source/Control: PR100 - Process
- Emission Source/Control: PR200 - Process
- Emission Source/Control: PR300 - Process
- Emission Source/Control: PR400 - Process
- Emission Source/Control: PR500 - Process
- Emission Source/Control: PR600 - Process
- Emission Source/Control: PR700 - Process
- Emission Source/Control: PR800 - Process
- Emission Source/Control: PS004 - Process
- Emission Source/Control: RC100 - Process

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Emission Source/Control: RI100 - Process

Emission Source/Control: RI300 - Process

Emission Source/Control: RI400 - Process

Emission Source/Control: RI500 - Process

Emission Source/Control: RI600 - Process

Emission Source/Control: RI700 - Process

Emission Source/Control: RS100 - Process

Emission Source/Control: RTA01 - Process

Emission Source/Control: RTA02 - Process

Emission Source/Control: RTRAC - Process

Emission Source/Control: SC100 - Process

Emission Source/Control: SCSSE - Process

Emission Source/Control: SCTEV - Process

Emission Source/Control: SELEN - Process

Emission Source/Control: SELSC - Process

Emission Source/Control: SIRCT - Process

Emission Source/Control: SP000 - Process

Emission Source/Control: SP100 - Process

Emission Source/Control: SP200 - Process

Emission Source/Control: SP500 - Process

Emission Source/Control: SP600 - Process

Emission Source/Control: SP700 - Process

Emission Source/Control: SP800 - Process

Emission Source/Control: SPN00 - Process

Emission Source/Control: SPN01 - Process

Emission Source/Control: SPN02 - Process



- Emission Source/Control: SPN03 - Process
- Emission Source/Control: SPN04 - Process
- Emission Source/Control: SUSSA - Process
- Emission Source/Control: TEMEV - Process
- Emission Source/Control: TSTEP - Process
- Emission Source/Control: VA100 - Process
- Emission Source/Control: VA200 - Process
- Emission Source/Control: VA300 - Process
- Emission Source/Control: VA400 - Process
- Emission Source/Control: VA500 - Process
- Emission Source/Control: VL001 - Process
- Emission Source/Control: VP001 - Process
- Emission Source/Control: VP002 - Process
- Emission Source/Control: VP003 - Process
- Emission Source/Control: WB200 - Process
- Emission Source/Control: WB300 - Process
- Emission Source/Control: WB400 - Process
- Emission Source/Control: WB500 - Process
- Emission Source/Control: WB700 - Process
- Emission Source/Control: WB800 - Process
- Emission Source/Control: WS001 - Process
- Emission Source/Control: WS100 - Process
- Emission Source/Control: WS200 - Process
- Emission Source/Control: WS300 - Process
- Emission Source/Control: WS600 - Process

Item 53.12:



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

Emission Unit: S-17260

Process: S02

Source Classification Code: 3-13-065-05

Process Description:

This process consists of conducting limited manufacturing in the VLSI and PSF "clean-room" operations.

Emission Source/Control: BB100 - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: BB300 - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: DO100 - Control

Control Type: FABRIC FILTER

Emission Source/Control: FS100 - Control

Control Type: WET SCRUBBER

Emission Source/Control: FS200 - Control

Control Type: WET SCRUBBER

Emission Source/Control: FS300 - Control

Control Type: WET SCRUBBER

Emission Source/Control: FS400 - Control

Control Type: WET SCRUBBER

Emission Source/Control: AH200 - Process

Emission Source/Control: AH300 - Process

Emission Source/Control: AH400 - Process

Emission Source/Control: AH500 - Process

Emission Source/Control: AH600 - Process

Emission Source/Control: AH700 - Process

Emission Source/Control: AS100 - Process

Emission Source/Control: ASTEP - Process

Emission Source/Control: BC100 - Process

Emission Source/Control: BC200 - Process

Emission Source/Control: BC300 - Process

Emission Source/Control: BK100 - Process

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Emission Source/Control: BK200 - Process

Emission Source/Control: BK300 - Process

Emission Source/Control: BK400 - Process

Emission Source/Control: BK500 - Process

Emission Source/Control: CDS01 - Process

Emission Source/Control: CEME1 - Process

Emission Source/Control: CHAEV - Process

Emission Source/Control: CV400 - Process

Emission Source/Control: CV500 - Process

Emission Source/Control: CV600 - Process

Emission Source/Control: CV700 - Process

Emission Source/Control: DDSAW - Process

Emission Source/Control: DV200 - Process

Emission Source/Control: DV300 - Process

Emission Source/Control: DVCE1 - Process

Emission Source/Control: DVSMC - Process

Emission Source/Control: DVSS1 - Process

Emission Source/Control: DY100 - Process

Emission Source/Control: DY200 - Process

Emission Source/Control: DY300 - Process

Emission Source/Control: DY400 - Process

Emission Source/Control: EX100 - Process

Emission Source/Control: EX200 - Process

Emission Source/Control: EX300 - Process

Emission Source/Control: GC100 - Process

Emission Source/Control: GV100 - Process



- Emission Source/Control: GV200 - Process
- Emission Source/Control: GV300 - Process
- Emission Source/Control: GV400 - Process
- Emission Source/Control: GV500 - Process
- Emission Source/Control: HD200 - Process
- Emission Source/Control: HD300 - Process
- Emission Source/Control: HD400 - Process
- Emission Source/Control: HD500 - Process
- Emission Source/Control: HD600 - Process
- Emission Source/Control: HD700 - Process
- Emission Source/Control: HD800 - Process
- Emission Source/Control: HD900 - Process
- Emission Source/Control: HDA00 - Process
- Emission Source/Control: HDA01 - Process
- Emission Source/Control: HDA02 - Process
- Emission Source/Control: HDA03 - Process
- Emission Source/Control: HDA04 - Process
- Emission Source/Control: HDA05 - Process
- Emission Source/Control: HDB00 - Process
- Emission Source/Control: HDC00 - Process
- Emission Source/Control: HDD00 - Process
- Emission Source/Control: HP200 - Process
- Emission Source/Control: HP300 - Process
- Emission Source/Control: HRE01 - Process
- Emission Source/Control: HRE02 - Process
- Emission Source/Control: HRE03 - Process

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- Emission Source/Control: HRE04 - Process
- Emission Source/Control: LZ300 - Process
- Emission Source/Control: LZ400 - Process
- Emission Source/Control: MC200 - Process
- Emission Source/Control: OV100 - Process
- Emission Source/Control: OV200 - Process
- Emission Source/Control: OV300 - Process
- Emission Source/Control: OV400 - Process
- Emission Source/Control: OV500 - Process
- Emission Source/Control: OV600 - Process
- Emission Source/Control: OV700 - Process
- Emission Source/Control: OV800 - Process
- Emission Source/Control: OV900 - Process
- Emission Source/Control: OVA00 - Process
- Emission Source/Control: OVB00 - Process
- Emission Source/Control: OVC00 - Process
- Emission Source/Control: OVD00 - Process
- Emission Source/Control: OVE00 - Process
- Emission Source/Control: OVF00 - Process
- Emission Source/Control: OVG00 - Process
- Emission Source/Control: OVH00 - Process
- Emission Source/Control: OVI00 - Process
- Emission Source/Control: OVJ00 - Process
- Emission Source/Control: PL100 - Process
- Emission Source/Control: PL200 - Process
- Emission Source/Control: PL300 - Process



Emission Source/Control: PL400 - Process

Emission Source/Control: PR100 - Process

Emission Source/Control: PR200 - Process

Emission Source/Control: PR300 - Process

Emission Source/Control: PR400 - Process

Emission Source/Control: PR500 - Process

Emission Source/Control: PR600 - Process

Emission Source/Control: PR700 - Process

Emission Source/Control: PR800 - Process

Emission Source/Control: PS004 - Process

Emission Source/Control: RC100 - Process

Emission Source/Control: RI100 - Process

Emission Source/Control: RI300 - Process

Emission Source/Control: RI400 - Process

Emission Source/Control: RI500 - Process

Emission Source/Control: RI600 - Process

Emission Source/Control: RI700 - Process

Emission Source/Control: RS100 - Process

Emission Source/Control: RTA01 - Process

Emission Source/Control: RTA02 - Process

Emission Source/Control: RTRAC - Process

Emission Source/Control: SC100 - Process

Emission Source/Control: SCSSE - Process

Emission Source/Control: SCTEV - Process

Emission Source/Control: SELEN - Process

Emission Source/Control: SELSC - Process



- Emission Source/Control: SIRCT - Process
- Emission Source/Control: SP000 - Process
- Emission Source/Control: SP100 - Process
- Emission Source/Control: SP200 - Process
- Emission Source/Control: SP500 - Process
- Emission Source/Control: SP600 - Process
- Emission Source/Control: SP700 - Process
- Emission Source/Control: SP800 - Process
- Emission Source/Control: SPN00 - Process
- Emission Source/Control: SPN01 - Process
- Emission Source/Control: SPN02 - Process
- Emission Source/Control: SPN03 - Process
- Emission Source/Control: SPN04 - Process
- Emission Source/Control: SUSSA - Process
- Emission Source/Control: TEMEV - Process
- Emission Source/Control: TSTEP - Process
- Emission Source/Control: VA100 - Process
- Emission Source/Control: VA200 - Process
- Emission Source/Control: VA300 - Process
- Emission Source/Control: VA400 - Process
- Emission Source/Control: VA500 - Process
- Emission Source/Control: VL001 - Process
- Emission Source/Control: VP001 - Process
- Emission Source/Control: VP002 - Process
- Emission Source/Control: VP003 - Process
- Emission Source/Control: WB200 - Process

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Emission Source/Control: WB300 - Process

Emission Source/Control: WB400 - Process

Emission Source/Control: WB500 - Process

Emission Source/Control: WB700 - Process

Emission Source/Control: WB800 - Process

Emission Source/Control: WS001 - Process

Emission Source/Control: WS100 - Process

Emission Source/Control: WS200 - Process

Emission Source/Control: WS300 - Process

Emission Source/Control: WS600 - Process

Condition 54: Emission Unit Permissible Emissions
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 54.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: P-17021

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 5.1 pounds per hour

3,116 pounds per year

Condition 55: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-10000

Item 55.2:

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 emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

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 (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 56: Capping Monitoring Condition
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 56.1:

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

40 CFR Part 52, Subpart A

Item 56.2:

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

Item 56.3:

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

Item 56.4:

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

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Item 56.5:

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

Item 56.6:

The Compliance Certification activity will be performed for:

Emission Unit: B-18201

Regulated Contaminant(s):

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

Item 56.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

This condition results from PSD permitting requirements reflected in the 1984 construction permit to add a boiler in the boiler house, and is applicable to emissions from all five boilers collectively.

The PSD permitting requirements in 1984 limited the oxides of nitrogen emissions to 137.5 tons in any calendar year.

Based on the above, the sum of monthly emissions in any 12 consecutive months shall not exceed the upper limit of 137.5 tons of oxides of nitrogen emissions.

Compliance shall be demonstrated by summing the monthly oxides of nitrogen emissions that result from multiplying "fuel usage" times the "appropriate emission factor" for each of the permitted fuels burned in that month.

Operating and fuel usage records shall be utilized to determine the quantity of each fuel burned and the emission factor appropriate for that type of fuel.

Emission factors acceptable shall be the most recent available from the latest applicable edition and supplement of the USEPA Compilation of Air Pollutant Emission Factors (AP-42) and shall be based on guidance from the Department concerning the nitrogen content of fuel.

NYSDEC reserves the right to conduct emissions testing or fuel sampling at any time it deems necessary to verify compliance.



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Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 137.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 57: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-18201

Emission Point: 18201

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) On each day any boiler is fired by fuel oil, observe the stack for that boiler which is operating on oil once per day for visible emissions (determining the presence or absence of visible emissions). This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

3) If the daily instantaneous observations of any visible emissions (other than steam - see ** NOTE ** below) are greater than 20 percent for two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be

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conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must notify the Regional Air Pollution Control Engineer within one business day of performing the Method 9 analysis if the opacity standard is contravened. Upon RAPCE notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

4) Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance. Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Departmental review.

5) The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 58: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-18201

Emission Point: 18201

Item 58.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

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 (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 60: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 6 NYCRR 227-2.5 (a)

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-18201
Process: B01

Emission Point: 18201
Emission Source: BL400

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Based on the 2011 NOx RACT evaluation, the 12-month rolling total NOx emissions from Boiler 4 will be limited to 33.0 tons per year. GE will maintain monthly records of the quantity of No. 6 fuel oil fired in this boiler. GE will also maintain records of the 12-month rolling NOx emissions for this boiler. Each month, NOx emissions will be estimated by multiplying the NOx emission rate, in units of pounds NOx emitted per MMBtu fired, by the total MMBtu of No.6 oil fired each month. Initially, monthly NOx emissions will be estimated based on the NOx emission rate for No. 6 oil used in the 2011 RACT evaluation. NYSDEC has accepted the February 2017 stack test results. As of March 2017, total pounds NOx emitted each month will be estimated using the NOx emission rates for No. 6 fuel

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oil obtained from this testing.

Monitoring Frequency: MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 59: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (2)

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-18201	Emission Point: 18201
Process: B01	Emission Source: BL500

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Effective July 1, 2014, based on the 2011 NO_x RACT evaluation, the 12-month rolling total NO_x emissions from boiler 5 will be limited to 33.8 tons per year when firing No. 6 fuel oil. GE will maintain monthly records of the quantity of No. 6 fuel oil fired in this boiler. GE will also maintain records of the 12-month rolling total NO_x emissions for this boiler. Each month, NO_x emissions will be estimated by multiplying the NO_x emission rate, in units of pounds NO_x emitted per MMBtu fired, by the total MMBtu of No. 6 fuel oil fired each month. Initially, monthly NO_x emissions will be estimated based on the NO_x emission rate for No. 6 fuel oil used in the 2011 RACT evaluation. NYSDEC has approved the February 2017 stack test results. As of March 2017, total pounds NO_x emitted each month will be estimated using the NO_x emission rates for natural gas and No. 6 fuel oil obtained from this testing.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 33.8 tons per year

Reference Test Method: 40 CFR 60, Appendix A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 61: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1) (ii)

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-18201

Emission Point: 18201

Process: B02

Emission Source: BL500

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx-RACT compliance is:

Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance. The records shall demonstrate that natural gas is primarily the fuel fired by No. 5 for any 12 consecutive months.

Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Department review.

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 62: Capping Monitoring Condition
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 62.1:

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

40 CFR 52.21

Item 62.2:



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

Item 62.3:

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

Item 62.4:

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

Item 62.5:

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

Item 62.6:

The Compliance Certification activity will be performed for:

Emission Unit: E-17624

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 62.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The total material throughput for any 12 consecutive months is individually limited for each of the following five devices to:

SC001: 20,000 pounds

SC002: 20,000 pounds

SC003: 20,000 pounds

SC004: 20,000 pounds

SC005 20,000 pounds

The total material throughput for any 12 consecutive months is limited to 100,000 pounds for this emission unit.

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Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance.

Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Department review.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: MATERIAL

Upper Permit Limit: 100,000 pounds

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 63: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 40CFR 63.11507(f)(1), Subpart
WWWWW

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: E-17624

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For existing permanent thermal spraying operations, the owner or operator must operate a capture system that collects PM emissions from the thermal spraying process and transports the emissions to a water curtain, fabric filter, or HEPA filter, according to paragraphs (i) and (ii).

(i) The owner or operator must operate all capture and control devices according to the manufacturer's specifications and instructions.

(ii) The owner or operator must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

**Condition 64: Existing Permanent Thermal Spraying Initial Compliance
Effective between the dates of 12/08/2017 and 12/07/2022**

Applicable Federal Requirement:40CFR 63.11508(c)(9), Subpart

WWWWWW

Item 64.1:

This Condition applies to Emission Unit: E-17624

Item 64.2:

The owner or operator of an existing affected permanent thermal spraying operation that applies one or more of the plating and polishing metal HAP and is subject to the requirements in 40CFR 63.11507(f)(1) must demonstrate initial compliance according to paragraphs (i) through (iii).

(i) The owner or operator must install a control system that is designed to capture PM emissions from the thermal spraying operation and exhaust them to a water curtain, fabric filter, or HEPA filter.

(ii) The owner or operator must state in the Notification of Compliance Status that he/she has installed and are operating the control system according to the manufacturer's specifications and instructions.

(iii) The owner or operator must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

**Condition 65: Operation and Maintenance of Air Pollution Equipment
Effective between the dates of 12/08/2017 and 12/07/2022**

Applicable Federal Requirement:40CFR 63.11508(d)(1), Subpart

WWWWWW

Item 65.1:

This Condition applies to Emission Unit: E-17624

Item 65.2:

The owner or operator must always operate and maintain the affected source, including air pollution control equipment.



or (2), must demonstrate continuous compliance according to paragraphs (i) through (v).

(i) The owner or operator must operate and maintain the control system according to the manufacturer's specifications and instructions.

(ii) Following any malfunction or failure of the capture or control devices to operate properly, the owner or operator must take immediate corrective action to return the equipment to normal operation according to the manufacturer's specifications and operating instructions.

(iii) The owner or operator must state in his/her annual certification that he/she has operated and maintained the control system according to the manufacturer's specifications and instructions.

(iv) The owner or operator must record the results of all control system inspections, deviations from proper operation, and any corrective action taken.

(v) The owner or operator must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 68: Control System Annual Compliance Report
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 40CFR 63.11509(c)(2), Subpart
WWWWW

Item 68.1:

This Condition applies to Emission Unit: E-17624

Item 68.2:

The owner or operator of any one of the affected sources listed in paragraphs (i) through (iii) must state in his/her annual certification that he/she has operated and maintained the control system according to the manufacturer's specifications and instructions.



(i) Electroplating, electroforming, or electropolishing tank that is subject to the requirements in 40CFR 63.11507(a) and uses a control system to comply with 40CFR 63 WWWWWW;

(ii) Dry mechanical polishing operation that is subject to 40CFR 63.11507(e); or

(iii) Permanent thermal spraying operation that is subject to 40CFR 63.11507(f)(1) or (2).

Condition 69: Annual Compliance Report
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(c)(7), Subpart WWWWWW

Item 69.1:
This Condition applies to Emission Unit: E-17624

Item 69.2:
Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period.

Condition 70: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(d), Subpart WWWWWW

Item 70.1:
The Compliance Certification activity will be performed for:

Emission Unit: E-17624

Item 70.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any deviations from the compliance requirements specified in 40CFR 63 WWWWWW which occurred at an affected source during the year, must reported by the owner or operator,

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along with the corrective action taken, and submit this report to the delegated authority.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 71: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(e), Subpart WWWWWW

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: E-17624

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must keep the records specified in paragraphs (1) through (3).

(1) A copy of any Initial Notification and Notification of Compliance Status that was submitted and all documentation supporting those notifications.

(2) The records specified in 40CFR 63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions.

(3) The records required to show continuous compliance with each management practice and equipment standard that applies to the owner or operator, as specified in 40CFR 63.11508(d).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 72: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(f), Subpart



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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 1/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 74: Alternative Recordkeeping
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 74.1:
This Condition applies to Emission Unit: H-17659

Item 74.2:
As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

Condition 75: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 75.1:
The Compliance Certification activity will be performed for:

Emission Unit: H-17659
Process: H01 Emission Source: AP300

Item 75.2:
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 emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.



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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 (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 76: Applicability of General Provisions of 40 CFR 60 Subpart A
Effective between the dates of 12/08/2017 and 12/07/2022**

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 76.1:

This Condition applies to Emission Unit: H-17659 Emission Point: 17659
Process: H01 Emission Source: AP300

Item 76.2:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

**Condition 77: EPA Region 2 address.
Effective between the dates of 12/08/2017 and 12/07/2022**

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 77.1:

This Condition applies to Emission Unit: H-17659 Emission Point: 17659
Process: H01 Emission Source: AP300

Item 77.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC

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

Condition 78: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: H-17659	Emission Point: 17659
Process: H01	Emission Source: AP300

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 79: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-19000

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For any contaminant not listed on Table 2 (HTAC list), the facility owner/operator shall not allow emissions of an air contaminant to violate the requirements specified

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(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 1/30/2018.

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

Condition 81: Tank Covering Initial Compliance – Batch Process Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11508(c)(3), Subpart WWWW

Item 81.1:

This Condition applies to Emission Unit: I-19000

Process: I01



Item 81.2:

The owner or operator of an affected batch electrolytic process tank, as defined in 40CFR 63.11511 that contains one or more of the plating and polishing metal HAP and which is subject to the requirements in 40CFR 63.11507(a) and uses a tank cover, as defined in 40CFR 63.11511, to comply with 40CFR 63 WWWW, must demonstrate initial compliance according to paragraphs (i) through (iv).

(i) The owner or operator must install a tank cover on the affected tank.

(ii) The owner or operator must state in the Notification of Compliance Status that he/she operates the tank with the cover in place at least 95 percent of the electrolytic process operating time.

(iii) The owner or operator must implement the applicable management practices specified in 40CFR 63.11507(g), as practicable.

(iv) The owner or operator must state in the Notification of Compliance Status that he/she has implemented the applicable management practices specified in 40CFR 63.11507(g), as practicable.

Condition 82: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 40CFR 63.11508(d)(1), Subpart WWWW

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-19000

Process: I01

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must always operate and maintain the affected source, including air pollution control equipment.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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40CFR 63.11507(a) or a flash or short-term electroplating tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in 40CFR 63.11507(b), and complies by operating the affected tank with a cover, must demonstrate continuous compliance according to paragraphs (i) through (iii).

(i) The owner or operator must operate the tank with the cover in place at least 95 percent of the electrolytic process operating time.

(ii) The owner or operator must record the times that the tank is operated and the times that the tank is covered on a daily basis.

(iii) The owner or operator must state in his/her annual certification that he/she has operated the tank with the cover in place at least 95 percent of the electrolytic process time.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 85: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement: 40CFR 63.11508(d)(8), Subpart
WWWWW

Item 85.1:
The Compliance Certification activity will be performed for:

Emission Unit: I-19000

Process: I01

Item 85.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected tank or other operation that is subject to the management practices specified in 40CFR 63.11507(g) must demonstrate continuous compliance according to paragraphs (i) and (ii).

(i) The owner or operator must implement the applicable management practices during all times that the affected tank or process is in operation.

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(ii) The owner or operator must state in his/her annual compliance certification that he/she has implemented the applicable management practices, as practicable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 86: Batch and Flash or Short-Term Annual Compliance Report – Tank Covering
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(c)(4), Subpart WWWWWW

Item 86.1:

This Condition applies to Emission Unit: I-19000
Process: I01

Item 86.2:

The owner or operator of an affected batch electrolytic process tank that is subject to the requirements of 40CFR 63.11507(a) or a flash or short-term electroplating tank that is subject to the requirements in 40CFR 63.11507(b) and complies by operating the affected tank with a cover, must state in his/her annual certification that he/she has operated the tank with the cover in place at least 95 percent of the electrolytic process time.

Condition 87: Management Practices Annual Compliance Report
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(c)(6), Subpart WWWWWW

Item 87.1:

This Condition applies to Emission Unit: I-19000
Process: I01

Item 87.2:

The owner or operator of an affected tank that is subject to the management practices specified in 40CFR 63.11507(g) must state in his/her annual compliance certification that he/she has implemented the applicable management practices, as practicable.



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Condition 88: Annual Compliance Report
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(c)(7), Subpart
WWWWWW

Item 88.1:
This Condition applies to Emission Unit: I-19000
Process: I01

Item 88.2:
Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period.

Condition 89: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 63.11509(d), Subpart
WWWWWW

Item 89.1:
The Compliance Certification activity will be performed for:

Emission Unit: I-19000
Process: I01

Item 89.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any deviations from the compliance requirements specified in 40CFR 63 WWWWWW which occurred at an affected source during the year, must reported by the owner or operator, along with the corrective action taken, and submit this report to the delegated authority.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 90: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022



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**Applicable Federal Requirement:40CFR 63.11509(e), Subpart
WWWWWW**

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-19000
Process: I01

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must keep the records specified in paragraphs (1) through (3).

(1) A copy of any Initial Notification and Notification of Compliance Status that was submitted and all documentation supporting those notifications.

(2) The records specified in 40CFR 63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions.

(3) The records required to show continuous compliance with each management practice and equipment standard that applies to the owner or operator, as specified in 40CFR 63.11508(d).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

**Condition 91: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022**

**Applicable Federal Requirement:40CFR 63.11509(f), Subpart
WWWWWW**

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-19000
Process: I01

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

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of all paint spray booths must periodically monitor the booths and the accompanying particulate control device(s) by completing the following tasks on a weekly basis during weeks the paint spray booths operate:

- Inspect the spray booth for evidence of paint particulate break through. Presence of visible emissions indicates that the emission sources may not be operating properly and may need servicing.

- Inspect the spray booth's particulate control device for evidence that maintenance or replacement is needed.

- Record in an inspection log, which shall be made available for Department review upon request, the following information: Date, time, name of staff person performing inspection, and inspection results for each inspection; and, whenever a problem is discovered, a description of the problem, cause and corrective action taken.

Regardless of when a problem is noted, i.e., at a time other than during the weekly inspection, it must be immediately remedied.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 94: Applicability of General Provisions of 40 CFR 60 Subpart A Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 94.1:

This Condition applies to Emission Unit: P-17021 Emission Point: 17021

Item 94.2:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 95: EPA Region 2 address. Effective between the dates of 12/08/2017 and 12/07/2022



Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 95.1:

This Condition applies to Emission Unit: P-17021 Emission Point: 17021

Item 95.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

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

Condition 96: Compliance Certification
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable Federal Requirement:40CFR 60.310(c), NSPS Subpart EE

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: P-17021 Emission Point: 17021

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any owner or operator of a metal furniture surface coating operation that uses less than 3,842 liters (1015 gallons) of coating (as applied) per year and keeps purchase or inventory records or other data necessary to substantiate annual coating usage shall be exempt from all other provisions of this subpart. These records shall be

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maintained at the source for a period of at least 2 years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

Subsequent reports are due every 6 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: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

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



standards in this permit. Failure of such person to 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 97: Contaminant List
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable State Requirement:ECL 19-0301

Item 97.1:

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

CAS No: 008006-61-9
Name: GASOLINE

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

CAS No: 0NY100-00-0
Name: TOTAL HAP

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

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

Condition 98: Malfunctions and start-up/shutdown activities
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable State Requirement:6 NYCRR 201-1.4



Item 98.1:

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

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

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

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

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

Condition 99: Visible Emissions Limited
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable State Requirement:6 NYCRR 211.2

Item 99.1:

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.

**** Emission Unit Level ****

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Condition 100: Compliance Demonstration
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable State Requirement:6 NYCRR 227-1.2 (a) (2)

Item 100.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: B-18201 Emission Point: 18201
Process: B01

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

Item 100.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test to determine the particulate emission rate was completed in February 2006 and the results submitted to the Department. These results demonstrate that the emission unit is in compliance with the 0.20 pound per million Btu emission limit. Additional testing will be completed upon request by the Department.

Upper Permit Limit: 0.2 pounds per million Btus

Reference Test Method: AS required

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 101: Compliance Demonstration
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable State Requirement:6 NYCRR 212-2.1

Item 101.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: E-17624
Process: E22

Item 101.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The degree of air cleaning required is determined by

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 4 of this Part for the environmental rating indicated for each constituent.

Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance.

The facility will comply with the permissible emission rate limitations in Table 4 by operating and maintaining control equipment (fabric filter and high efficiency particulate air filter) in accordance with the manufacturer's instructions and good operating procedures. The control equipment will be inspected on a weekly basis during the weeks the equipment is operated.

Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Department review.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 103: Compliance Demonstration
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 103.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: E-17624

Process: E22

Item 103.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will comply with the permissible emission rate limitations in Table 4 by operating and maintaining control equipment (fabric filter and high efficiency particulate air filter) in accordance with the manufacturer's instructions and good operating procedures.

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The control equipment will be inspected on a weekly basis during the weeks the equipment is operated.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 104: Compliance Demonstration
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 104.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: I-19000

Item 104.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For an air contaminant listed in Section 212-2.2 Table 2 – High Toxicity Air Contaminant List, the facility owner or operator shall either limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual HTAC, or demonstrate compliance with the air cleaning requirements for the HTAC as specified in Table 4, 212-2.3(b) for the environmental rating assigned to the contaminant.

Facility-wide actual annual emissions of HTAC emitted from this emission unit have been shown to be less than the mass emission limit in Table 2 of 212-2.2.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 105: Compliance Demonstration
Effective between the dates of 12/08/2017 and 12/07/2022

Applicable State Requirement:6 NYCRR 212-2.1

Item 105.1:

The Compliance Demonstration activity will be performed for:

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Permit ID: 4-4224-00001/00103

Facility DEC ID: 4422400001



Emission Unit: S-17260
Process: S02

Item 105.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The degree of air cleaning required is determined by Table 4 of 212-2.3(b), as defined by emission rate potential.

For an air contaminant listed in Section 212-2.2 Table 2 - High Toxicity Air Contaminant List, the facility owner or operator shall either limit the actual annual emissions from all process operations at the facility so as not to exceed the mass emission limit listed or the individual HTAC, or demonstrate compliance with the air cleaning requirements for the HTAC as specified in Table 4, 212-2.3(b) for the environmental rating assigned to the contaminant.

For any contaminant not listed on Table 2 (HTAC list), the facility owner/operator shall not allow emissions of an air contaminant to violate the requirements specified in 212-2.3(a), Table 3, or 212-2.3(b), Table 4, as applicable, for the environmental rating assigned to the contaminant by the Department.

The Department reserves the right to require the performance of compliance testing, should the need arise.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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

Condition 106: Compliance Demonstration
Effective between the dates of 12/08/2017 and 12/07/2022

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

Item 106.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-17260
Process: S02

Item 106.2:

New York State Department of Environmental Conservation

Permit ID: 4-4224-00001/00103

Facility DEC ID: 4422400001



Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 3, or Table 4 of this Part for the environmental rating indicated for each constituent.

The degree of air cleaning required is determined by Table 4 of 212-2.3(b) as defined by emission rate potential.

B- and C-rated contaminant emissions from this unit are estimated to be less than 10 pounds per hour and subject to guideline concentrations. Based on dispersion modeling, the maximum off-site air concentration for each contaminant is less than the applicable AGC/SGC.

Compliance with the requirement shall be accomplished by operating and maintaining the control equipment (direct flame afterburners and wet scrubbers) in accordance with the manufacturer's operating procedures, instructions, and requirements and good engineering practices.

If available, a copy of the manufacturer's operating procedures, instructions and requirements shall be maintained with the permit at the facility at all times. Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance. The records shall indicate the date of control equipment checks and the maintenance activities, repairs, and corrective actions performed.

In addition, the facility owner/operator shall inspect the control equipment once per week during weeks the emission unit process(es) operate. If the control equipment is not operating as required, corrective action is required. Documentation shall be maintained, by keeping records of inspections as appropriate, to demonstrate compliance. The records shall indicate for each emission unit process operating the control equipment that has been checked, whether such equipment is operating properly, and provide an explanation of any corrective actions taken.

Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Department review.

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The Department reserves the right to require compliance testing, should the need arise.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2018.

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