



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

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 4-4215-00054/00183  
Mod 0 Effective Date: 07/21/2010 Expiration Date: 08/06/2014  
Mod 1 Effective Date: 02/16/2012 Expiration Date: 08/06/2014  
Mod 2 Effective Date: 08/07/2013 Expiration Date: 08/06/2014  
Mod 3 Effective Date: 02/24/2014 Expiration Date: 08/06/2014  
Mod 4 Effective Date: 05/16/2014 Expiration Date: 08/06/2014

Permit Issued To: GENERAL ELECTRIC CO  
3135 EASTON TPKE  
FAIRFIELD, CT 06828

Contact: EDWARD STEFANIK  
1 RIVER RD BLDG 273  
SCHENECTADY, NY 12345  
(518) 385-1800

Facility: GENERAL ELECTRIC STEAM TURBINE GENERATOR GLOBAL  
1 RIVER RD  
SCHENECTADY, NY 12345

Contact: MAUREEN EVERS  
GENERAL ELECTRIC STEAM TURBINE GENERATOR GLOBAL  
1 RIVER RD  
SCHENECTADY, NY 12345  
(518) 385-0294

Description:  
This Department initiated modification of the Air State Facility permit for the Battery Plant at General Electric is to include an existing emission point in the permit.

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 4421500054**



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  
  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
  - 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 \*\*\*\***  
**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**

**Applicable State Requirement: ECL 3-0301 (2) (m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Item 3.3:**

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



**Condition 1-1: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 1-1.1:**

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.

**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 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



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

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY  
PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: GENERAL ELECTRIC CO  
3135 EASTON TPKE  
FAIRFIELD, CT 06828

Facility: GENERAL ELECTRIC STEAM TURBINE GENERATOR GLOBAL  
1 RIVER RD  
SCHENECTADY, NY 12345

Authorized Activity By Standard Industrial Classification Code:  
3511 - TURBINES AND TURBINE GENERATOR  
3691 - STORAGE BATTERIES

Mod 0 Permit Effective Date: 07/21/2010	Permit Expiration Date: 08/06/2014
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Mod 2 Permit Effective Date: 08/07/2013	Permit Expiration Date: 08/06/2014
Mod 3 Permit Effective Date: 02/24/2014	Permit Expiration Date: 08/06/2014
Mod 4 Permit Effective Date: 05/16/2014	Permit Expiration Date: 08/06/2014



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 1-1 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Demonstration
- 1-2 6 NYCRR 201-6.5 (e): Compliance Demonstration
- 3 6 NYCRR 202-2.5: Recordkeeping requirements
- 4 40 CFR Part 68: Accidental release provisions.
- 5 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 4-1 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- 8 6 NYCRR 202-2.1: Compliance Demonstration
- 1-3 6 NYCRR 211.1: Air pollution prohibited
- 2-1 6 NYCRR 212.6 (a): Compliance Demonstration
- 10 6 NYCRR 212.10 (a): NO<sub>x</sub> and VOC RACT at Major Facilities
- 11 6 NYCRR 212.10 (e): RACT Applicability for Major Facilities
- 12 6 NYCRR 212.11 (a): Sampling and Monitoring
- 13 6 NYCRR 231-11.2 (c): Compliance Demonstration
- 14 40CFR 60, NSPS Subpart A: Applicability of Subpart A General Provisions
- 15 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 16 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used
- 17 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 18 40CFR 60.7(c), NSPS Subpart A: Compliance Demonstration
- 19 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 20 40CFR 60.7(e), NSPS Subpart A: Monitoring frequency waiver.
- 21 40CFR 60.7(f), NSPS Subpart A: Compliance Demonstration
- 22 40CFR 60.7(g), NSPS Subpart A: Notification Similar to State or

#### Local Agency

- 23 40CFR 60.8, NSPS Subpart A: Compliance Demonstration
- 24 40CFR 60.8(a), NSPS Subpart A: Compliance Demonstration
- 25 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver
- 26 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 27 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 28 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 29 40CFR 60.8(f), NSPS Subpart A: Compliance Demonstration
- 30 40CFR 60.9, NSPS Subpart A: Availability of information.
- 31 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 32 40CFR 60.12, NSPS Subpart A: Circumvention.
- 33 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 34 40CFR 60.14, NSPS Subpart A: Modifications.
- 35 40CFR 60.15, NSPS Subpart A: Reconstruction
- 2-2 40CFR 60.732(b), NSPS Subpart UUU: Compliance Demonstration
- 36 40CFR 61, NESHAP Subpart M: National Emission Standard for Asbestos
- 37 40CFR 82, Subpart H: Halon Emissions Reduction

#### Emission Unit Level

- 38 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions

#### EU=B-ATTRY



- \*2-3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*1-5 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*39 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*40 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*42 6 NYCRR Subpart 201-7: Capping Monitoring Condition

**EU=B-ATTRY,Proc=CF1**

- 43 6 NYCRR 212.4 (c): Compliance Demonstration

**EU=B-ATTRY,Proc=CP2**

- 2-4 6 NYCRR 212.4 (a): Compliance Demonstration
- 2-5 6 NYCRR 212.4 (a): Compliance Demonstration

**EU=B-ATTRY,Proc=PP3**

- 46 40CFR 60.732(a), NSPS Subpart UUU: Standards for particulate matter
- 47 40CFR 60.732(a), NSPS Subpart UUU: Compliance Demonstration
- 1-6 40CFR 60.732(b), NSPS Subpart UUU: Compliance Demonstration
- 48 40CFR 60.732(b), NSPS Subpart UUU: Compliance Demonstration
- 49 40CFR 60.736, NSPS Subpart UUU: Test methods and procedures

**EU=B-ATTRY,Proc=PP5**

- 50 40CFR 60.732(a), NSPS Subpart UUU: Standards for particulate matter
- 1-7 40CFR 60.732(a), NSPS Subpart UUU: Compliance Demonstration
- 51 40CFR 60.732(a), NSPS Subpart UUU: Compliance Demonstration
- 53 40CFR 60.736, NSPS Subpart UUU: Test methods and procedures

**EU=B-ATTRY,Proc=TF1**

- 2-6 6 NYCRR 212.4 (a): Compliance Demonstration
- 2-7 6 NYCRR 212.4 (a): Compliance Demonstration
- 55 6 NYCRR 212.4 (a): Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 56 ECL 19-0301: Contaminant List
- 2-8 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 57 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 58 6 NYCRR Subpart 201-5: Emission Unit Definition
- 2-9 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 2-10 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 59 6 NYCRR 201-5.4 (b): Compliance Demonstration
- 60 6 NYCRR 211.2: Air pollution prohibited
- 1-8 6 NYCRR 211.2: Visible Emissions Limited
- 61 6 NYCRR 217-3.2: Idling of Diesel Trucks Limited

**Emission Unit Level**

- 62 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 63 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: \* preceding the condition number indicates capping.



**FEDERALLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Sealing - 6 NYCRR 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6**

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

**Item C: Maintenance of Equipment - 6 NYCRR 200.7**

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.

**Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2**

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Emergency Defense - 6 NYCRR 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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



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

**Item F: Recycling and Salvage - 6 NYCRR 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8**

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.

**Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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 I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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 J: Required Emission Tests - 6 NYCRR 202-1.1**



An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

**Item K: Open Fires Prohibitions - 6 NYCRR 215.2**

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item L: Permit Exclusion - ECL 19-0305**

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

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

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

**FEDERAL APPLICABLE REQUIREMENTS**  
**The following conditions are federally enforceable.**

**Condition 1: Recordkeeping and reporting of compliance monitoring**



Effective between the dates of 07/21/2010 and 08/06/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (c)

**Item 1.1:**

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

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

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

**Condition 1-1: Compliance Demonstration**

Effective between the dates of 02/16/2012 and 08/06/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (c) (3) (ii)

**Item 1-1.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of



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

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless



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

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

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

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

**Condition 1-2: Compliance Demonstration**  
**Effective between the dates of 02/16/2012 and 08/06/2014**

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

**Item 1-2.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-2.2:**

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;and
  - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2



**New York State Department of Environmental Conservation**

Permit ID: 4-4215-00054/00183

Facility DEC ID: 4421500054



submitted) one of the following, if such quantities are present:

1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,

2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

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

**Condition 5: Recycling and Emissions Reduction**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

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

**Item 5.1:**

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

**Condition 4-1: Facility Permissible Emissions**  
**Effective between the dates of 05/16/2014 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 4-1.1:**

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

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

per year CAS No: 0NY075-02-5 (From Mod 4) PTE: 19,000 pounds

Name: PM 2.5

per year CAS No: 0NY210-00-0 (From Mod 4) PTE: 79,000 pounds

Name: OXIDES OF NITROGEN

**Condition 8: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR 202-2.1**

**Item 8.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 8.2:**

Compliance Demonstration shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 4-4215-00054/00183

Facility DEC ID: 4421500054



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. Statements are to be submitted via the Agency electronic submittal program or are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Condition 1-3: Air pollution prohibited**  
**Effective between the dates of 02/16/2012 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 1-3.1:**

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 2-1: Compliance Demonstration**  
**Effective between the dates of 08/07/2013 and 08/06/2014**

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

**Replaces Condition(s) 1-4, 9**

**Item 2-1.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: B-ATTRY

Process: AC2

Emission Unit: B-ATTRY

Process: BA1

Emission Unit: B-ATTRY

Process: CA1

Emission Unit: B-ATTRY

Process: CF1

Emission Unit: B-ATTRY

Process: CP2



Emission Unit: B-ATTRY  
Process: HV1

Emission Unit: B-ATTRY  
Process: TF1

**Item 2-1.2:**

Compliance Demonstration 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 Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will immediately investigate any instance where there is cause to believe that visible emissions above those that are normal and in compliance are occurring or have occurred from a process source.

If visible emissions above those that are normal (this may be zero percent opacity for many or all emission sources) and in compliance with section 212.6(a) are detected, the permittee shall determine the cause, make the necessary correction, and verify that the excess visible emissions problem has been corrected.

If visible emissions above those that are normal and in compliance continue to be present after corrections are made, the permittee will immediately notify The Department and conduct a Method 9 assessment within 24 hours to determine the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the Department and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.

Monitoring Frequency: MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.



The initial report is due 1/30/2014.  
Subsequent reports are due every 12 calendar month(s).

**Condition 10: NOx and VOC RACT at Major Facilities**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR 212.10 (a)**

**Item 10.1:**

Owners and/or operators of facilities located outside of the lower Orange County and New York City metropolitan areas with an annual potential to emit of 100 tons or more of nitrogen oxides or 50 tons or more of volatile organic compounds must comply with the requirements of section 212.10-Reasonably Available Control Technology for major facilities.

**Condition 11: RACT Applicability for Major Facilities**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR 212.10 (e)**

**Item 11.1:**

All process sources applicable to 6 NYCRR Part 212.10 after May 31, 1995 will remain subject to all provisions of that section even if the facility's annual potential to emit of nitrogen oxides or volatile organic emissions falls below the applicability thresholds.

**Condition 12: Sampling and Monitoring**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

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

**Item 12.1:**

The owner and/or operator of this facility, if required by the department to conduct stack testing to demonstrate compliance with 6 NYCRR Part 212, must comply with notification requirements and conduct capture efficiency and/or stack testing using acceptable procedures pursuant to 6 NYCRR Part 202.

**Condition 13: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

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

**Item 13.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 13.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, but equals or exceeds 50



percent of the applicable significant project threshold when emissions excluded in accordance with Clause 231-4.1(b)(40)(i)(c) of this Part are added, or for a modification with a project emission potential which equals or exceeds 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, the facility owner or operator must submit an application to modify the facility permit under the minor permit provisions of Subpart 201-6 of this Title or obtain a preconstruction permit under the provisions of Subpart 201-6 of this Title, and must:

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

- (i) a description of the modification.
- (ii) an identification of each new or modified emission source(s) including the associated processes and emission unit.
- (iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation.

(iv) the date the modification commenced operation.

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

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

- (i) the name, address, and telephone number of the major facility.
- (ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this Section.
- (iii) a comparison of actual annual emissions to the







Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each six (6) month period (or as appropriate), and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

**Condition 19: Excess emissions report.**

**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.7(d), NSPS Subpart A**

**Item 19.1:**

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

**Condition 20: Monitoring frequency waiver.**

**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.7(e), NSPS Subpart A**



**Item 20.1: Notwithstanding the frequency of reporting requirements specified in paragraph (c) of this section,** an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the conditions in 40 CFR 60.7(e) are met.

**Condition 21: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A**

**Item 21.1:**  
The Compliance Demonstration activity will be performed for the Facility.

**Item 21.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Any owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as follows:

(1) This paragraph applies to owners or operators required to install a continuous emissions monitoring system (CEMS) where the CEMS installed is automated, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (f) of this section, the owner or operator shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.

(2) This paragraph applies to owners or operators required to install a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and



where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (f) of this section, the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Administrator.

(3) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by paragraph (f) of this section, if the Administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 22: Notification Similar to State or Local Agency**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.7(g), NSPS Subpart A**

**Item 22.1:**

If notification substantially similar to that in 40 CFR Part 60.7(a) is required by any other State or local agency, sending the Administrator a copy of that notification will satisfy the requirements of 40 CFR Part 60.7(a).

**Condition 23: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8, NSPS Subpart A**

**Item 23.1:**

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

Emission Unit: B-ATTRY  
Process: PP3

Emission Unit: B-ATTRY  
Process: PP5

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

**Item 23.2:**

New York State Department of Environmental Conservation

Permit ID: 4-4215-00054/00183

Facility DEC ID: 4421500054



Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under §60.11(e)(5), he shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of this part before the performance test required under §60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of this part.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: PS-1 Appendix B

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 24: Compliance Demonstration**

**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A**

**Item 24.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: B-ATTRY

Process: PP3

Emission Unit: B-ATTRY

Process: PP5

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 24.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of

New York State Department of Environmental Conservation

Permit ID: 4-4215-00054/00183

Facility DEC ID: 4421500054



a process line which requires testing, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Upper Permit Limit: 0.092 grams PM per dry standard cubic meter

Reference Test Method: as applicable

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 25: Performance Test Methods - Waiver**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A**

**Item 25.1:**

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrators satisfaction that the affected facility is in compliance with the standatr, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

**Condition 26: Required performance test information.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8(c), NSPS Subpart A**

**Item 26.1:**

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operator of the facility.

**Condition 27: Prior notice.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A**

**Item 27.1:**

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

**Condition 28: Performance testing facilities.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A**



**Item 28.1:**

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

**Condition 29: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A**

**Item 29.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 29.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 30: Availability of information.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A**

**Item 30.1:**

The availability to the public of information provided to, or otherwise obtained by, the

**New York State Department of Environmental Conservation**

Permit ID: 4-4215-00054/00183

Facility DEC ID: 4421500054



Administrator under this part shall be governed by 40 CFR Part 2.

**Condition 31: Opacity standard compliance testing.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A**

**Item 31.1:**

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A of 40 CFR Part 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

**Condition 32: Circumvention.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A**

**Item 32.1:**

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

**Condition 33: Monitoring requirements.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A**

**Item 33.1:**

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

**Condition 34: Modifications.**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A**

**Item 34.1:**

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

**Condition 35: Reconstruction**  
**Effective between the dates of 07/21/2010 and 08/06/2014**



**Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A**

**Item 35.1:**

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

**Condition 2-2: Compliance Demonstration**  
**Effective between the dates of 08/07/2013 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(b), NSPS Subpart UUU**

**Item 2-2.1:**

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

Emission Unit: B-ATTRY  
Process: PP3

Emission Unit: B-ATTRY  
Process: PP5

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

**Item 2-2.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility owner/operator has conducted an approved  
(February 2012) initial performance test for process PP3



Calciner (5704A) and PP5 dryer (5708A) in accordance with 60.736 "Test Methods And Procedures." For future installed emission units this initial performance test shall be conducted on the Calciner emission point within the time frame specified in 60.8 "Performance Tests" to demonstrate compliance with the emission limit for particulate matter per 60.732(a) "Standards For Particulate Matter" for Calciners. The owner or operator has elected to submit COMS data for compliance with the opacity standard. COMS monitoring and recordkeeping shall adhere to 40 CFR 60 Subpart A.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 10 percent

Reference Test Method: EPA method 9 or appendix B PS-1 for COMs

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 36: National Emission Standard for Asbestos**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 61, NESHAP Subpart M**

**Item 36.1:**

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

**Condition 37: Halon Emissions Reduction**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

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

**Item 37.1:**

The permittee shall comply with the standards for halon emissions reduction pursuant to 40CFR Part 82, Subpart H.

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

**Condition 38: Emission Unit Permissible Emissions**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 38.1:**

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: B-ATTRY



CAS No: 007647010 (From Mod 4)  
Name: HYDROGEN CHLORIDE  
PTE(s): 18,000 pounds per year  
3.125 pounds per hour

CAS No: 0NY075005 (From Mod 4)  
Name: PM-10  
PTE(s): 29,000 pounds per year  
3.3 pounds per hour

CAS No: 0NY210000 (From Mod 4)  
Name: OXIDES OF NITROGEN  
PTE(s): 9.02 pounds per hour  
79,000 pounds per year

CAS No: 0NY998000 (From Mod 4)  
Name: VOC  
PTE(s): 79,000 pounds per year  
4.89 pounds per hour

CAS No: 0NY075025 (From Mod 4)  
Name: PM 2.5  
PTE(s): 2.17 pounds per hour  
19,000 pounds per year

**Condition 2-3: Capping Monitoring Condition**  
**Effective between the dates of 08/07/2013 and 08/06/2014**

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7**

**Item 2-3.1:**

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 231-2.2 (d)

**Item 2-3.2:**

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

**Item 2-3.3:**

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 2-3.4:**

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 2-3.5:**

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 2-3.6:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-3.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will adopt a federally enforceable limit on VOC emissions of 39.5 tons/year from the emissions unit to avoid triggering New Source Review requirements. The facility will keep records of VOC-containing material usage and calculate VOC emissions monthly using supplier material formulations, emissions or other environmental data or other process or emissions data as appropriate.

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 1-5: Capping Monitoring Condition**

**Effective between the dates of 02/16/2012 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Replaces Condition(s) 41**

**Item 1-5.1:**

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



40 CFR 52.21

**Item 1-5.2:**

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

**Item 1-5.3:**

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

**Item 1-5.4:**

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

**Item 1-5.5:**

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

**Item 1-5.6:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Regulated Contaminant(s):

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

**Item 1-5.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will adopt a federally enforceable limit on PM-10 emissions of 14.5 tons/year from the emission unit not including fugitive sources to avoid triggering New Source Review requirements.

The facility will keep records of fuel usage and process material throughput and calculate PM-10 emissions monthly using emission factors from AP-42, equipment manufacturer's emission data, or



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CAS No: 0NY075-02-5 PM 2.5

**Item 39.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will adopt a federally enforceable limit on PM-2.5 emissions of 9.5 tons/year from the emission unit not including fugitive sources to avoid triggering New Source Review requirements. The facility will keep records of fuel usage and process material throughput and calculate PM-2.5 emissions monthly using emissions factors from AP-42, equipment manufacturer's emission data or performance test results as appropriate.

For sources which do not have specific PM-2.5 emission factors available from manufacturer's emission data, performance test results, or AP-42 emission factors, emission rates of PM-2.5 will be assumed to be equal to emission rates of PM-10. In cases where AP-42 emission factors are used to calculate emissions to demonstrate compliance and AP-42 provides different emission factors for PM-10 and PM-2.5, the emission factor for PM-2.5 will be used to calculate PM-2.5 emissions. In cases where emission rates are demonstrated by performance testing, and there is an appropriate AP-42 emission factor available for both PM-10 and PM-2.5, the ratio of PM-2.5 to PM-10 will be multiplied by the emission rate of PM-10 demonstrated in the performance test to establish an equipment specific PM-2.5 emission rate.

If improved PM-2.5 emission factor data becomes available, GE may propose such new emission factors for approval by the Department. The updated emission factors will not be used without the Department's written approval. Changes to emission factors in updated versions of AP-42 will not require the Department's prior approval.

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

**Condition 40: Capping Monitoring Condition**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

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**Item 40.1:**

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 63.40

**Item 40.2:**

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

**Item 40.3:**

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 40.4:**

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 40.5:**

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 40.6:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Regulated Contaminant(s):

CAS No: 007647-01-0      HYDROGEN CHLORIDE

**Item 40.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

HCl emissions from the scrubber, in combination with other sources of HCl from the facility, shall not exceed 18000 pounds per year in order to ensure compliance with facility HAP CAP provisions. Using the HCl control



efficiency determined from the stack testing, the facility owner/operator shall monitor monthly HCl emissions by monitoring and keep records of the amount of electrolyte melt produced and filled.

Satisfying this condition results in GE remaining a minor facility for individual and total annual HAPs.

Work Practice Type: PROCESS MATERIAL THRUPUT  
Process Material: PRODUCT  
Upper Permit Limit: 18000 pounds  
Monitoring Frequency: MONTHLY  
Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2011.  
Subsequent reports are due every 12 calendar month(s).

**Condition 42: Capping Monitoring Condition**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7**

**Item 42.1:**

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 231-2.2 (d) (2)  
40 CFR 52.21

**Item 42.2:**

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

**Item 42.3:**

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 42.4:**

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 42.5:**

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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 42.6:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Regulated Contaminant(s):

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

**Item 42.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Emissions of NO<sub>x</sub> from all combined sources in this emission unit shall not exceed 79,000 pounds over any 12 consecutive months. Emissions of NO<sub>x</sub> from sources in this emission unit will be based on emission factors that will be applied to monthly fuel usage records for source groups with the same emission factors. Emission factors used in the application for this permit are acceptable for calculating NO<sub>x</sub> emissions. GE may propose updated and new emission factors for approval by the Department. The updated emission factors will not be used without the Department's written approval.

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.

Parameter Monitored: FUEL CONSUMPTION

Upper Permit Limit: 39.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

**Condition 43: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

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



**Item 43.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY  
Process: CF1

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

**Item 43.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Owners and/or operators of any source, which is required by the Department to demonstrate compliance with this Part, must comply with the notification requirements and must conduct stack emissions testing using acceptable procedures pursuant to Part 202 of this Title. 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 person who owns or operates an air contamination source shall submit the emission test report in triplicate to the commissioner within 60 days after the completion of tests. The owners and/or operators of this source shall perform an initial performance test on one of the eight cell finishing emission points to demonstrate compliance with the upper permit limit of 0.05 grains per dry standard cubic foot (gr/dscf). Demonstrating compliance with this limit for one emission point shall serve to certify compliance for all eight emission points.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 2-4: Compliance Demonstration**  
**Effective between the dates of 08/07/2013 and 08/06/2014**

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

**Item 2-4.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

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Process: CP2

Regulated Contaminant(s):

CAS No: 007647-01-0      HYDROGEN CHLORIDE

**Item 2-4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Based on the approved stack test results submitted by GE Battery in April 2012, the facility shall maintain operating parameters of the HCl scrubber as demonstrated during the 2012 stack test, or more recently approved stack test.

Source owner shall operate a monitoring device that measures and records the scrubber pH during normal scrubber operation. The Source Owner shall utilize average hourly pH readings to demonstrate compliance with the pH operating limits. Source owner shall collect monitoring data for a minimum of 90 percent of the time that the scrubber operates under normal conditions.

Records of all pH monitoring data shall be kept in electronic form or in another format acceptable to the Department, and shall be available upon request. Records shall be maintained at the facility for at a minimum of five 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 1/30/2014.

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

**Condition 2-5: Compliance Demonstration**

**Effective between the dates of 08/07/2013 and 08/06/2014**

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

**Item 2-5.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Process: CP2

Regulated Contaminant(s):

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CAS No: 007647-01-0 HYDROGEN CHLORIDE

**Item 2-5.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

To ensure continued compliance with the requirement, the scrubber operating parameters validated in required stack testing shall be maintained within the range as determined during the approved stack test results submitted in April 2012, or more recently approved. The monitoring of this surrogate will assist in demonstrating effective removal of HCl and compliance with HCl emission limits. Source owner shall operate a monitoring device that measures and records the scrubber pH during normal scrubber operation.

The Source Owner shall utilize average hourly pH readings to demonstrate compliance with the pH operating limits. Source owner shall collect monitoring data for a minimum of 90 percent of the time that the scrubber operates under normal conditions.

Parameter Monitored: PH

Lower Permit Limit: 6.0 pH (STANDARD) units

Upper Permit Limit: 12.0 pH (STANDARD) units

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING  
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 46: Standards for particulate matter  
Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(a), NSPS Subpart UUU**

**Item 46.1:**

This Condition applies to Emission Unit: B-ATTRY  
Process: PP3

**Item 46.2:**

Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by Section 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. No emissions shall

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be discharged into the atmosphere from any affected facility that:

(a) Contains particulate matter in excess of 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] for calciners and for calciners and dryers installer in series and in excess of 0.057 g/dscm for dryers; and

(b) Exhibits greater than 10% opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device.

**Condition 47: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(a), NSPS Subpart UUU**

**Item 47.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY  
Process: PP3

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

**Item 47.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner/operator shall conduct an initial performance test for process PP3 Calciner in accordance with 60.736 "Test Methods And Procedures." This initial performance test shall be conducted on the Calciner emission point within the time frame specified in 60.8 "Performance tests" to demonstrate compliance with the emission limit for particulate matter per 60.732(a) "Standards For Particulate Matter" for Calciners.

Upper Permit Limit: 0.092 grams PM per dry standard cubic meter

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-6: Compliance Demonstration**  
**Effective between the dates of 02/16/2012 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(b), NSPS Subpart UUU**



**Replaces Condition(s) 52**

**Item 1-6.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Process: PP3

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 1-6.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility owner/operator shall conduct an initial performance test for process PP3 Calciner in accordance with 60.736 "Test Methods And Procedures." This initial performance test shall be conducted on the Calciner emission point within the time frame specified in 60.8 "Performance Tests" to demonstrate compliance with the emission limit for particulate matter per 60.732(a) "Standards For Particulate Matter" for Calciners. The owner or operator may elect to submit COMS data for compliance with the opacity standard.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: EPA method 9 or appendix B PS-1 for COMs

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 48: Compliance Demonstration**

**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(b), NSPS Subpart UUU**

**Item 48.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Process: PP3

Regulated Contaminant(s):

New York State Department of Environmental Conservation

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Facility DEC ID: 4421500054



CAS No: 0NY075-00-0 PARTICULATES

**Item 48.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility owner/operator shall conduct an initial performance test for process PP3 Calciner in accordance with 60.736 "Test Methods And Procedures." This initial performance test shall be conducted on the Calciner emission point within the time frame specified in 60.8 "Performance Tests" to demonstrate compliance with the emission limit for particulate matter per 60.732(a) "Standards For Particulate Matter" for Calciners. The owner or operator may elect to submit COMS data for compliance with the opacity standard.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: EPA method 9 or appendix B PS-1 for COMs

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 49: Test methods and procedures**

**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.736, NSPS Subpart UUU**

**Item 49.1:**

This Condition applies to Emission Unit: B-ATTRY  
Process: PP3

**Item 49.2:**

The permit for a facility subject to the provisions of this subpart must include the test methods and procedures listed in this section.

**Condition 50: Standards for particulate matter**

**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(a), NSPS Subpart UUU**

**Item 50.1:**

This Condition applies to Emission Unit: B-ATTRY  
Process: PP5

**Item 50.2:**

Each owner or operator of any affected facility that is subject to the requirements of this



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Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 51: Compliance Demonstration**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.732(a), NSPS Subpart UUU**

**Item 51.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Process: PP5

**Item 51.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility owner/operator shall conduct an initial performance test for process PP5 Dryer in accordance with 60.736 "Test Methods And Procedures." This initial performance test shall be conducted on the Dryer emission point within the time frame specified in 60.8 "Performance tests" to demonstrate compliance with the emission limit for particulate material per 60.732(a) "Standards For Particulate Matter" for Dryers. The owner or operator may elect to submit COMS data for compliance with the opacity standard.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: Method 9 or Appendix B PS-1 for COMs

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 53: Test methods and procedures**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable Federal Requirement:40CFR 60.736, NSPS Subpart UUU**

**Item 53.1:**

This Condition applies to Emission Unit: B-ATTRY  
Process: PP5

**Item 53.2:**

The permit for a facility subject to the provisions of this subpart must include the test



methods and procedures listed in this section.

**Condition 2-6: Compliance Demonstration**  
**Effective between the dates of 08/07/2013 and 08/06/2014**

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

**Item 2-6.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY  
Process: TF1

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

**Item 2-6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Based on the approved stack test results submitted by GE Battery in February 2012, the facility shall maintain operating parameters of the shuttle kiln as demonstrated during the 2012 stack test, or most recently approved stack test.

The source owner shall collect temperature monitoring data for shuttle kiln and afterburners for a minimum of 90 percent of the time that these devices operate under normal conditions.

The source owner shall maintain the afterburner temperature at the temperature listed in this condition.

Records of all temperature data shall be kept in electronic form or in another format acceptable to the Department, and shall be available upon request. Records shall be maintained at the facility for at a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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



**Condition 2-7: Compliance Demonstration**  
Effective between the dates of 08/07/2013 and 08/06/2014

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

**Item 2-7.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY  
Process: TF1

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

**Item 2-7.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Based on the approved stack test results submitted by GE Battery in February 2012, the facility shall maintain operating parameters of the shuttle kiln as demonstrated during the 2012 stack test, or most recently approved stack test.

The source owner shall start the afterburners within the first thirty (30) minutes into the kiln operating cycle and ramp-up and maintain a minimum afterburner operating temperature of 387°C until the kiln operating temperature reaches 700°C. The afterburners shall be shut down when the kiln temperature reaches 700°C.

The source owner shall collect temperature monitoring data for shuttle kiln and afterburners for a minimum of 90 percent of the time that these devices operate under normal conditions.

Parameter Monitored: TEMPERATURE  
Lower Permit Limit: 387 degrees Centigrade (or Celsius)  
Monitoring Frequency: CONTINUOUS  
Averaging Method: AVERAGING METHOD - SEE MONITORING  
DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**Condition 55: Compliance Demonstration**  
Effective between the dates of 07/21/2010 and 08/06/2014

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

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**Item 55.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: B-ATTRY

Process: TF1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 55.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test shall be performed to determine the overall removal efficiency of the afterburner used to control VOC emissions. The owner or operator must follow notification requirements, protocol requirements, test procedures, and reporting requirements of 6NYCRR Part 202 for testing and monitoring. Depending upon the conditions at a test site, one of the following test methods from Appendix A of 40 CFR 60 must be used when measuring total volatile organic compound (VOC) concentrations of a gas stream at the inlet and outlet of a control device to determine the destruction and/or removal efficiency:

- (a) Method 25, Determination of Total Gaseous Non-methane Organic Emissions as Carbon,
- (b) Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer.
- (c) Methods not listed above must be approved in advance by the commissioner's representative and the United States Environmental Protection Agency.

As determined during the stack test, the afterburner operating temperature shall become the minimum operating temperature that demonstrates compliance with 6 NYCRR Part 212. Demonstrating compliance with this limit for one afterburner unit shall serve to certify compliance for all identical afterburner units.

Lower Permit Limit: 80 percent degree of air cleaning or greater

Reference Test Method: EPA method 25, 25A or other referenced method(s)

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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





**STATE ONLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

**Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)**

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

**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 only enforceable.**



**Condition 56: Contaminant List**

**Effective between the dates of 07/21/2010 and 08/06/2014**

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

**Item 56.1:**

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

CAS No: 007647-01-0  
Name: HYDROGEN CHLORIDE

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

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

CAS No: 0NY075-02-5  
Name: PM 2.5

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

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

**Condition 2-8: Malfunctions and start-up/shutdown activities**

**Effective between the dates of 08/07/2013 and 08/06/2014**

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

**Item 2-8.1:**

(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 57: Unavoidable noncompliance and violations  
Effective between the dates of 07/21/2010 and 08/06/2014**

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

**Item 57.1:**

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

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

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



reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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

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

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 58: Emission Unit Definition**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 58.1(From Mod 4):**

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

Emission Unit: B-ATTRY

Emission Unit Description:

This emission unit is comprised of those processes associated with sodium metal halide battery production.

This emission unit is comprised of a calciner, spray dryers, tube firing kilns, plasma spray, process ovens, and assembly operations. All processes associated with this emission unit will be located in Building 66.

Emissions include products of combustion from natural gas fired process sources and particulate emissions from raw material powder handling, HCl from sodium tetrachloride preparation, and VOC's from coating and ink applications.

Building(s): 66

**Condition 2-9: Renewal deadlines for state facility permits**  
**Effective between the dates of 08/07/2013 and 08/06/2014**

**Applicable State Requirement:6 NYCRR 201-5.2 (c)**

**Item 2-9.1:**

The owner or operator of a facility having an issued state facility 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.

**Condition 2-10: Compliance Demonstration**  
Effective between the dates of 08/07/2013 and 08/06/2014

**Applicable State Requirement:6 NYCRR 201-5.3 (c)**

**Item 2-10.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2-10.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources  
NYS Dept. of Environmental Conservation  
Region 4  
1130 N. Westcott Rd.  
Schenectady, NY 12306

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 59: Compliance Demonstration**  
Effective between the dates of 07/21/2010 and 08/06/2014

**Applicable State Requirement:6 NYCRR 201-5.4 (b)**

**Item 59.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 59.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit modifications and physical or operational changes to an existing stationary source are subject to the following procedures.

Operational flexibility.

(1) Certain changes and modifications which meet the criteria under subparagraphs (i)-(iii) of this paragraph may be conducted without prior approval of the department



and shall not require modification of the permit. The facility owner and/or operator must however maintain records of the date and description of such changes and make such records available for review by department representatives upon request.

(i) Changes that do not cause emissions to exceed any emission limitation contained in regulations or applicable requirements under this Title.

(ii) Changes which do not cause the source to become subject to any additional regulations or requirements under this Title.

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

(2) In addition to the recordkeeping required under paragraph (1) of this subdivision, the permittee must notify the department in writing at least 30 calendar days in advance of making changes involving:

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION





Emission Point: T0001			
Height (ft.): 75	Length (in.): 48	Width (in.): 48	
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: AC001			
Height (ft.): 43	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: AC002			
Height (ft.): 43	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: AC003			
Height (ft.): 43	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: AC004			
Height (ft.): 43	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: AC005			
Height (ft.): 12	Diameter (in.): 12		
NYTMN (km.): 4739.551	NYTME (km.): 584.981	Building: 66	
Emission Point: BA001			
Height (ft.): 35	Diameter (in.): 10		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: BA002			
Height (ft.): 35	Diameter (in.): 10		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: BA003			
Height (ft.): 35	Diameter (in.): 10		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: BA004			
Height (ft.): 35	Diameter (in.): 10		
NYTMN (km.): 4739.678	NYTME (km.): 584.994	Building: 66	
Emission Point: BT001			
Height (ft.): 72	Diameter (in.): 12		
NYTMN (km.): 4740.319	NYTME (km.): 585.063	Building: 66	
Emission Point: BT002			
Height (ft.): 72	Diameter (in.): 12		
NYTMN (km.): 4740.319	NYTME (km.): 585.969	Building: 66	
Emission Point: CA001			
Height (ft.): 66	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	

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Emission Point: CA002			
Height (ft.): 66	Diameter (in.): 18		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CA003			
Height (ft.): 66	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CA004			
Height (ft.): 66	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CA005			
Height (ft.): 66	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CA006			
Height (ft.): 66	Diameter (in.): 12		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CA007			
Height (ft.): 75	Diameter (in.): 12		
NYTMN (km.): 4740.319	NYTME (km.): 585.063	Building: 66	
Emission Point: CA008			
Height (ft.): 75	Diameter (in.): 12		
NYTMN (km.): 4740.319	NYTME (km.): 585.063	Building: 66	
Emission Point: CF001			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CF002			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CF003			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CF004			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CF005			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CF006			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	



Emission Point: CF007			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CF008			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: CP001			
Height (ft.): 72	Diameter (in.): 10		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: HV001			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: HV002			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: PPC01			
Height (ft.): 78	Diameter (in.): 20		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: PPC02			
Height (ft.): 78	Diameter (in.): 20		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: PPC05			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: PPC06			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: PPD05			
Height (ft.): 74	Diameter (in.): 16		
NYTMN (km.): 4740.319	NYTME (km.): 585.063	Building: 66	
Emission Point: PPD06			
Height (ft.): 74	Diameter (in.): 16		
NYTMN (km.): 4740.319	NYTME (km.): 585.063	Building: 66	
Emission Point: TF001			
Height (ft.): 78	Diameter (in.): 47		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	
Emission Point: TF004			
Height (ft.): 75	Diameter (in.): 8		
NYTMN (km.): 4740.34	NYTME (km.): 584.872	Building: 66	

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Emission Point: TF005  
Height (ft.): 75 Diameter (in.): 8  
NYTMN (km.): 4740.34 NYTME (km.): 584.872 Building: 66

Emission Point: TF006  
Height (ft.): 75 Diameter (in.): 8  
NYTMN (km.): 4740.34 NYTME (km.): 584.872 Building: 66

Emission Point: TF007  
Height (ft.): 75 Diameter (in.): 8  
NYTMN (km.): 4740.34 NYTME (km.): 584.872 Building: 66

**Condition 63: Process Definition By Emission Unit**  
**Effective between the dates of 07/21/2010 and 08/06/2014**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 63.1(From Mod 4):**

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

Emission Unit: B-ATTRY

Process: CP2

Process Description:

Cathode Melt Preparation: Sodium cathode melt is prepared from aluminum chloride and sodium chloride. The raw materials are melted in the melt vessel under vacuum to produce the melt, sodium tetrachloroaluminate. Hydrogen Chloride emissions are generated in the melting process. Particulate and HCl emissions are controlled by a wet scrubber. This process operates inside a permanent total enclosure for worker safety. A venting system automatically evacuates the air in the melt prep room when HCl levels reach conditions that are unsafe for employees working in that area. Room air is evacuated through an exhaust point located on the roof of the building.

Emission Source/Control: 5733B - Control

Control Type: WET SCRUBBER

Emission Source/Control: 5733C - Control

Control Type: DUST COLLECTOR

Emission Source/Control: 5733A - Process

Emission Source/Control: 5734A - Process

**Item 63.2(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: AC2

Process Description:



Alpha Collar Metalizing Ovens: IN Process Ac2, the Alpha Collars are heated in an electric furnace to "metalize" the collar. This furnace contains a nitrogen/hydrogen atmosphere to prevent oxidation of the Molybdenum ink on the Alpha Collars. As the doors of the electric furnace are opened for product entry and removal, a small amount of hydrogen is released and combusted. A small natural gas-fired pilot light is present that combusts the hydrogen gas, resulting in water vapor that is vented outdoors. In addition to the water vapor, extremely small quantity (<1 gram per collar) of VOC emissions may be generated from heating the metalizing ink and vented outdoors through a permitted emission point.

Emission Source/Control: 5717A - Process

Emission Source/Control: 5718A - Process

Emission Source/Control: 5719A - Process

Emission Source/Control: 5720A - Process

**Item 63.3(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: AC3

Process Description:

Alpha Collar Metalizing: In process AC3, Molybdenum ink is screen applied to the clean, baked Alpha Collars as an adhesive. The Molybdenum ink is dried at room temperature, and VOC from the ink is vented outdoors. At full production capacity, the Molybdenum material will be subject to 6 NYCRR Part 228-2 and VOC control equipment will be installed to meet the requirement.

Emission Source/Control: 5722B - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: 5722A - Process

**Item 63.4(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: BA1

Process Description:

Battery Assembly: The battery assembly process consists of assembly in a set of manual steps, followed by robotic laser welding. The laser welders include fume extractors with HEPA filtration prior to venting outdoors. Manual TIG welding is also performed on stainless steel boxes.

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Weld fumes from TIG welding will be vented indoors.

Emission Source/Control: 5760A - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5760B - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5760C - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5760D - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5760P - Process

**Item 63.5(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: BT1

Process Description:

This process consists of generator test stands used for product testing and demonstrations. The generators will be powered by diesel internal combustion engines.

Emission Source/Control: 5780A - Combustion

Emission Source/Control: 5780B - Combustion

**Item 63.6(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: CA1

Process Description:

The cell assembly process consists of laser welding, melt fill, and powder fill operations to assemble components into battery cells. Particulate emissions from laser welders are controlled by dust collectors.

Emission Source/Control: 5750A - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750B - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750C - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750D - Control  
Control Type: DUST COLLECTOR

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Emission Source/Control: 5750E - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750F - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750G - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750H - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750I - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750J - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750K - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750L - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750M - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750N - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750P - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750Q - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750R - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5750S - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: P5751 - Process

**Item 63.7(From Mod 3):**

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

Emission Unit: B-ATTRY

Process: CA2

Process Description:

Cell Assembly Melt Fill: The cell assembly process



consists of multiple laser welding, multiple melt fill, and powder fill operations to assemble components into battery cells. HCl emissions from melt fill operations are controlled by the wet scrubber in process CP2.

Emission Source/Control: 5733B - Control  
Control Type: WET SCRUBBER

Emission Source/Control: P5754 - Process

**Item 63.8(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: CA3

Process Description:

Cell Assembly Carbon Black Application: The cell assembly process consists of laser welding, melt fill, and powder fill operations to assemble components into battery cells. This process includes ten carbon black spray application booths. Particulate emissions from carbon black spray coating are controlled by dust collectors.

Emission Source/Control: 5752A - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5752B - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5752C - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5752D - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5752E - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5753A - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5753B - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5753C - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5753D - Control  
Control Type: DUST COLLECTOR

Emission Source/Control: 5753E - Control  
Control Type: DUST COLLECTOR



Emission Source/Control: P5752 - Process

Emission Source/Control: P5753 - Process

**Item 63.9(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: CF1

Process Description:

Cell Finishing: The cell process consists of a grit blast operation to prepare the cells for coating and a plasma coating operation. The plasma coating operation applies a ceramic coating to the cells. Particulate emissions are controlled by a dust collection and filtering system.

Emission Source/Control: 5741B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5742B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5743B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5744B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5745B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5746B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5747B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5748B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 5741A - Process

Emission Source/Control: 5742A - Process

Emission Source/Control: 5743A - Process

Emission Source/Control: 5744A - Process

Emission Source/Control: 5745A - Process

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Emission Source/Control: 5746A - Process

Emission Source/Control: 5747A - Process

Emission Source/Control: 5748A - Process

**Item 63.10(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: HV1

Process Description:

House Vacuums: The centralized housekeeping vacuum systems will be used for collecting fugitive dust and powder. Emissions will be filtered through HEPA filters prior to discharge.

Emission Source/Control: 5770A - Control

Control Type: DUST COLLECTOR

Emission Source/Control: 5770B - Control

Control Type: DUST COLLECTOR

Emission Source/Control: 5770P - Process

**Item 63.11(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: PP3

Process Description:

Calciners: This process is comprised of two high temperature calciners and rotary coolers. The calciner is a natural gas fired rotary oven operating at 1250C. It will be equipped with a high temperature dust filtration system. Granular feedstock is fed to the Calciner, where free water and carbon dioxide are driven off to form alumina powder. Product from the Calciner is cooled in a rotary cooler prior to dry milling. Each rotary cooler is equipped with a cyclonic separator and a dust filtration system.

Emission Source/Control: 5704B - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: 5704C - Control

Control Type: FABRIC FILTER

Emission Source/Control: 5705B - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: 5705C - Control



Control Type: FABRIC FILTER

Emission Source/Control: 5704A - Process

Emission Source/Control: 5705A - Process

Emission Source/Control: 5706A - Process

Emission Source/Control: 5707A - Process

**Item 63.12(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: PP5

Process Description:

Spray Dryers: Alumina powder is further processed by drying in a natural gas fired spray dryer. The alumina slip is fed through up-spray nozzles while counter-current hot air from natural gas combustion is used to dry the alumina slip from the combination of Beta Granulate, deflocculant, organic binders and DI water. Particulate emissions are controlled by a cyclonic separator and a dust filtration system.

Emission Source/Control: 5708B - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: 5708C - Control

Control Type: FABRIC FILTER

Emission Source/Control: 5709B - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: 5709C - Control

Control Type: FABRIC FILTER

Emission Source/Control: 5708A - Process

Emission Source/Control: 5709A - Process

**Item 63.13(From Mod 2):**

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

Emission Unit: B-ATTRY

Process: TF1

Process Description:

Tube Firing Kiln: Green Alumina ceramic compacts are fired in natural gas fired ovens to create ceramic tubes. The pressing operation is to convert beta alumina powder in to green compacts. Particulate and VOC emissions are generated from the tube firing kiln. A natural gas fired

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thermal oxidizer is used for VOC control.

Emission Source/Control: 5710B - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: 5713B - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: 5715B - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: 5710A - Process

Emission Source/Control: 5713A - Process

Emission Source/Control: 5715A - Process

