



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Title IV (Phase II Acid Rain)
Permit ID: 8-5736-00004/00016
Effective Date: 04/25/2019 Expiration Date: 09/06/2021

Permit Type: Air Title V Facility
Permit ID: 8-5736-00004/00017
Mod 0 Effective Date: 09/07/2016 Expiration Date: 09/06/2021
Mod 1 Effective Date: 04/25/2019 Expiration Date: 09/06/2021

Permit Issued To: GREENIDGE GENERATION LLC
590 PLANT RD
PO BOX 187
DRESDEN, NY 14441-0187

Contact: DALE IRWIN
GREENIDGE GENERATION LLC
590 PLANT RD PO BOX 187
DRESDEN, NY 14441-0187
(315) 536-3423

Facility: GREENIDGE STATION
590 PLANT RD
DRESDEN, NY 14441

Contact: DALE IRWIN
GREENIDGE GENERATION LLC
590 PLANT RD PO BOX 187
DRESDEN, NY 14441-0187
(315) 536-3423

Description:

Title V Facility Permit and Title IV (Acid Rain) Facility Permit, for the Greenidge Generating Station located in the Town of Torrey, New York. The Title IV permit and the Title V permit replace the Title IV and Title V permits relinquished by the previous owner in November, 2012.

The Greenidge Generating Station is a Major Stationary Source, and is required to obtain a Title V Permit as specified in 6 NYCRR Part 201-6. The Department has applied 6 NYCRR Part 231 Prevention of Significant Deterioration requirements to emissions of carbon monoxide (CO), particulate matter (PM), particulate matter less than 10 microns in diameter (PM₁₀), particulate matter



less than 2.5 microns in diameter (PM_{2.5}) and greenhouse gases (GHG). Nonattainment New Source Review has been applied to emissions of oxides of nitrogen (NO_x). Capping provisions have been included for emissions of sulfur dioxide (SO₂) and volatile organic compounds (VOCs) of 39 tons per year and 49 tons per year, respectively. A Continuous Emission Monitoring System (CEMS) will be used to monitor compliance with NO_x, CO, SO₂, ammonia (NH₃), and GHGs requirements. A Continuous Opacity Monitoring System (COMS) will be used to monitor compliance with opacity requirements, and annual stack testing will be required for demonstrating compliance with the emission limits for PM, PM₁₀, and PM_{2.5}. Greenidge Generation has surrendered 177 tons of NO_x emission reduction credits (ERC) to offset the 153.8 tons of potential NO_x emissions associated with this permit action. The conversion and operation of the Greenidge Generating Station boiler no. 6 is not subject to New Source Performance Standards.

Greenidge Generation LLC will operate Unit 4 electric generating operations without the use of coal or fuel oil. Electric generation is powered by a boiler, with a maximum heat input of 1,117 million BTU per hour. The boiler will burn natural gas, with the ability to co-fire up to 19% biomass, which may include untreated wood and resinated wood. With conversion of all generating operations to use natural gas as the primary fuel with up to 19% biomass co-firing, and operations as proposed, the Greenidge Generating Station will primarily emit contaminants from boiler powered electric generation and ash handling operations.

The facility is equipped with a suite of air pollution control (both pre-combustion and post-combustion) systems to control pollutant nitrogen oxides, carbon monoxide, particulate matter (PM, PM₁₀ and PM_{2.5}), and sulfur dioxide emissions from facility operations. Boiler NO_x emissions will be controlled by over fire air, low NO_x Burners/flue gas recirculation/tangential low NO_x firing, optimized selective non-catalytic reduction, and optimized selective catalytic reduction. Boiler particulate emissions will be controlled by a fabric filter baghouse. Ash handling operations convey boiler fly ash associated with the use of biomass pneumatically to a fly ash storage silo with a baghouse to control particulate emissions. The ash is then processed for proper disposal. Minor amounts of particulates will also be emitted from a pollution control system supporting the boiler NO_x emission control system. Emissions of CO are controlled by staged combustion and over fire air.

Additionally, the permit establishes start-up and shutdown limits for the boiler as well as BACT and LAER limits and work practices for auxiliary emission sources at the facility for emissions of particulate matter, carbon monoxide,



nitrogen oxides, and greenhouse gases, as appropriate.

Modification 1 - Minor modification of the Title V permit to lower the startup and shutdown NOx emissions limit when firing natural gas only (Process P65) from 804.24 pounds per event to 242.3 pounds per event, as previously authorized in Condition 41, Item 41.2 (now Condition 1-4). Condition 1-5 retains the 804.24 pounds of NOx per start-up and shutdown event when firing with natural gas and biomass. Modification 1 also formalizes adjustments to ammonia and CO emission limits previously-authorized in Condition 63, Item 63.2 and Condition 68, Item 68.2 to increase the ammonia emission limit to 20 ppm and the CO emission limit to 100 ppm, respectively (now Conditions 1-2 and 1-3, respectively), to ensure the facility can maintain the nitrogen oxides emissions limit.

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: SCOTT SHEELEY
NYSDEC - REGION 8
6274 E AVON LIMA RD
AVON, NY 14414

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
 - Applications for permit renewals, modifications and transfers
 - Applications for permit renewals, modifications and transfers
 - Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal-REGION 8 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

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



New York State Department of Environmental Conservation

Facility DEC ID: 8573600004

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

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

Item 1-1.1:

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

Item 1-1.2:

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

Item 1-1.3

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

Condition 4: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 4.1:

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

Item 4.2:

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

Item 5.1:

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

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



**** Facility Level ****

Condition 6: Submission of application for permit modification or renewal-REGION 8 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 6.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 8 Headquarters
Division of Environmental Permits
6274 Avon-Lima Road
Avon, NY 14414-9519
(585) 226-2466

New York State Department of Environmental Conservation

Permit ID: 8-5736-00004/00017

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: GREENIDGE GENERATION LLC
590 PLANT RD
PO BOX 187
DRESDEN, NY 14441-0187

Facility: GREENIDGE STATION
590 PLANT RD
DRESDEN, NY 14441

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES
4931 - ELEC & OTHER SERVICES COMBINED

Mod 0 Permit Effective Date: 09/07/2016

Permit Expiration Date: 09/06/2021

Mod 1 Permit Effective Date: 04/25/2019

Permit Expiration Date: 09/06/2021



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
 - 2 6 NYCRR 201-6.4 (a) (7): Fees
 - 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
 - 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
 - 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
 - 6 6 NYCRR 201-6.4 (e): Compliance Certification
 - 7 6 NYCRR 202-2.1: Compliance Certification
 - 8 6 NYCRR 202-2.5: Recordkeeping requirements
 - 9 6 NYCRR 215.2: Open Fires - Prohibitions
 - 10 6 NYCRR 200.7: Maintenance of Equipment
 - 11 6 NYCRR 201-1.7: Recycling and Salvage
 - 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
 - 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
 - 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
 - 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
 - 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
 - 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
 - 18 6 NYCRR 202-1.1: Required Emissions Tests
 - 19 40 CFR Part 68: Accidental release provisions.
 - 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
 - 21 6 NYCRR Subpart 201-6: Emission Unit Definition
 - 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
 - 23 6 NYCRR Subpart 201-7: Facility Permissible Emissions
 - 1-1 6 NYCRR 211.2: Visible Emissions Limited
 - 25 6 NYCRR 225-1.2 (h): Compliance Certification
 - 26 6 NYCRR 225-1.5 (c): Compliance Certification
 - 27 6 NYCRR 230.5 (a): Compliance Certification
 - 28 6 NYCRR 231-5.5: Compliance Certification
 - 29 6 NYCRR 231-7.5: Compliance Certification
 - 30 6 NYCRR 231-7.5: Compliance Certification
 - 31 6 NYCRR 231-7.5: Compliance Certification
 - 32 40CFR 63, Subpart A: General Provisions
 - 33 40CFR 63, Subpart ZZZZ: Compliance and Enforcement
 - 34 40CFR 63, Subpart ZZZZ: Compliance Certification
 - 35 40 CFR Part 98: Mandatory greenhouse gas reporting
- Emission Unit Level**
- 36 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
 - 37 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=G-00004

- *38 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *39 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 40 6 NYCRR 227-1.3 (a): Compliance Certification

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Facility DEC ID: 8573600004



- 42 6 NYCRR 231-5.4: Compliance Certification
- 43 6 NYCRR 231-5.4: Compliance Certification
- 44 6 NYCRR 231-7.5: Compliance Certification
- 45 6 NYCRR 231-7.5: Compliance Certification
- 46 6 NYCRR 231-7.5: Compliance Certification
- 47 6 NYCRR 231-7.5: Compliance Certification
- 48 6 NYCRR 231-7.5: Compliance Certification
- 49 6 NYCRR 231-7.6: Compliance Certification
- 50 6 NYCRR 231-7.6: Compliance Certification
- 51 40CFR 63, Subpart DDDDD: Compliance Certification
- 52 40CFR 72.6(a)(1), Subpart A: Compliance Certification
- 53 40CFR 75.10(a), Subpart B: Compliance Certification
- 54 40CFR 75.10(b), Subpart B: Compliance Certification
- 55 40CFR 75.10(c), Subpart B: Compliance Certification
- 56 40CFR 75.10(d), Subpart B: Compliance Certification
- 57 40CFR 75.13(a), Subpart B: Compliance Certification
- 58 40CFR 75.20, Subpart C: Compliance Certification
- 59 40CFR 75.64(a), Subpart G: Compliance Certification
- 60 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 61 40CFR 97.506, Subpart BBBB: Compliance Certification
- 62 40CFR 97.606, Subpart CCCCC: Compliance Certification

EU=G-00004,Proc=P65

- 1-2 6 NYCRR Subpart 201-6: Compliance Certification
- 64 6 NYCRR 231-5.4: Compliance Certification
- 65 6 NYCRR 231-7.5: Compliance Certification
- 66 6 NYCRR 231-7.5: Compliance Certification
- 67 6 NYCRR 231-7.5: Compliance Certification
- 1-3 6 NYCRR 231-7.6: Compliance Certification

EU=G-00004,Proc=P75

- 69 6 NYCRR Subpart 201-6: Compliance Certification
- 70 6 NYCRR 231-5.4: Compliance Certification
- 71 6 NYCRR 231-5.4: Compliance Certification
- 72 6 NYCRR 231-7.5: Compliance Certification
- 73 6 NYCRR 231-7.5: Compliance Certification
- 74 6 NYCRR 231-7.5: Compliance Certification
- 75 6 NYCRR 231-7.6: Compliance Certification
- 76 6 NYCRR 231-7.6: Compliance Certification
- 77 6 NYCRR 231-7.6: Compliance Certification
- 78 6 NYCRR 231-7.6: Compliance Certification

EU=G-00005

- 79 6 NYCRR Subpart 201-6: Compliance Certification
- 80 6 NYCRR 212-1.6 (a): Compliance Certification
- 81 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-FABAH

- 82 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-FUGTV

- 83 6 NYCRR Subpart 231-7: Compliance Certification



EU=G-XEMPT

- 84 6 NYCRR Subpart 231-7: Compliance Certification
- 85 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-XEMPT,Proc=DFP

- 86 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-XEMPT,Proc=EGN

- 87 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-XEMPT,Proc=NGH

- 88 6 NYCRR Subpart 231-7: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 89 ECL 19-0301: Contaminant List
- 90 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 24 6 NYCRR 211.1: Air pollution prohibited
- 91 6 NYCRR 242-1.4 (b): Compliance Demonstration
- 92 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements
- 93 6 NYCRR 242-1.5: Compliance Demonstration
- 94 6 NYCRR 242-1.5: Compliance Demonstration
- 95 6 NYCRR Subpart 242-4: Compliance Demonstration
- 96 6 NYCRR 242-8.5: Compliance Demonstration

Emission Unit Level

EU=G-00004,Proc=P65

- 1-4 6 NYCRR 201-5.4: Compliance Demonstration

EU=G-00004,Proc=P75

- 1-5 6 NYCRR 201-5.4: Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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



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

Item K: Permit Exclusion - ECL 19-0305

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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 09/07/2016 and 09/06/2021**

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

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



reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

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



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

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

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

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

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

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



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

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 6: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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



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

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

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

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

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

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 8 Headquarters
6274 East Avon-Lima Road
Avon, NY 14414-9519

The address for the BQA is as follows:

NYSDEC



Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

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

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

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS



SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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

Condition 11: Recycling and Salvage
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 13.1:

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



Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 14.1:

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

Condition 15: Requirement to Provide Information
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 15.1:

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

Condition 16: Right to Inspect
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

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



Condition 17: Off Permit Changes

Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 17.1:

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

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

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

Condition 18: Required Emissions Tests

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

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

Condition 19: Accidental release provisions.

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

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

a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;



New York State Department of Environmental Conservation

Permit ID: 8-5736-00004/00017

Facility DEC ID: 8573600004

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

Emission Unit: G-00005

Emission Unit Description:

Miscellaneous process emission sources.

Building(s): HMILL

Item 21.3(From Mod 0):

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

Emission Unit: G-00008

Emission Unit Description:

Process operations associated with the aqueous urea system.

Building(s): BOILER

Item 21.4(From Mod 0):

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

Emission Unit: G-FABAH

Emission Unit Description:

This emission unit includes all process emission sources and emission points of the fly and bottom ash handling, storage, and disposal system.

Item 21.5(From Mod 0):

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

Emission Unit: G-FUGTV

Emission Unit Description:

This emission unit includes all emission sources and activities at the facility that have the potential to generate fugitive particulate emissions.

Item 21.6(From Mod 0):

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

Emission Unit: G-XEMPT

Emission Unit Description:

This emission unit includes the following exempt sources: Emergency Diesel Generator, Emergency Diesel Fire Pump, and the Natural Gas Heater and their associated emission points.

There are three processes associated with this emission unit:

Process EGN: Emergency Generator

Process DFP: Diesel Fire Pump

Process NGH: Natural Gas Heater

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 09/07/2016 and 09/06/2021

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

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Item 22.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 23: Facility Permissible Emissions
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 23.1:

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

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

per year CAS No: 007446-09-5 (From Mod 1) PTE: 78,000 pounds

Name: SULFUR DIOXIDE

per year CAS No: 0NY998-00-0 (From Mod 1) PTE: 98,000 pounds

Name: VOC

Condition 1-1: Visible Emissions Limited
Effective between the dates of 04/25/2019 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 211.2

Item 1-1.1:

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

Condition 25: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 25.1:

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

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Permit ID: 8-5736-00004/00017

Facility DEC ID: 8573600004



Emission Unit: G-XEMPT
Process: DFP

Emission Unit: G-XEMPT
Process: EGN

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 225-1.5 (c)

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Measurements must be made daily of the rate of each fuel fired. The gross heat content and ash content of each fuel

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fired must be determined at least once each week. In the case of stationary combustion installations producing electricity for sale, the average electrical output and the hourly generation rate must also be measured.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 27: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 230.5 (a)

Item 27.1:

The Compliance Certification activity will be performed for the Facility.

Item 27.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

Parameter Monitored: GASOLINE

Upper Permit Limit: 120000 gallons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Condition 28: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-5.5

Item 28.1:

The Compliance Certification activity will be performed for the Facility.

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

177 tons of ERCs have been allocated as offsets for NOx emissions from Greenidge Station. They have been obtained from 1046.4 tons which Greenidge acquired from the shutdown of Westover Generating Station.

153.9 tons NOx = facility PTE

146.8 tons allocated to boiler (EU 00004, permit condition 58)

7.1 tons for other (exempt) sources

Offset by 1.15

177 tons NOx offsets allocated for the project

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 1/30/2017.

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

Condition 29: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 29.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility-wide greenhouse gas emissions are limited to 53,788.1 tons of CO₂e per 30-day rolling average. This facility wide limit includes the CO₂e emissions from

New York State Department of Environmental Conservation

Permit ID: 8-5736-00004/00017

Facility DEC ID: 8573600004



Boiler #6, emergency diesel generator, emergency diesel fire pump, and natural gas heater.

For calculating the actual tons of CO₂e from Boiler #6, the Permittee shall use the procedures set forth in 40 CFR Part 98 to determine resulting GHG emissions (as CO₂e) based on the combination of measured by CEMS CO₂ emissions and calculated CO₂e of CH₄ and N₂O. For the purposes of showing compliance with the GHG BACT emission limits, the CH₄ and N₂O emission factors listed in 40 CFR Part 98, Tables C-1 and C-2, and the global warming potential factors listed in 40 CFR Part 98, subpart A, Table A-1 shall be used. The actual CO₂e from the emergency diesel generator, emergency diesel fire pump, and natural gas heater shall be calculated as specified elsewhere in this permit.

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS

Upper Permit Limit: 53788.1 tons

Monitoring Frequency: MONTHLY

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 30: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 30.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 30.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility-wide NO_x is limited to no more than 153.8 tons per 12-month rolling total. This facility wide limit includes the NO_x emissions from Boiler #6, emergency diesel generator, emergency diesel fire pump, and natural gas heater.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 153.8 tons per year

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Reference Test Method: 40 CFR 60 App A
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 31: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 31.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility-wide greenhouse gas emissions are limited to 641,878 tons/year of CO₂e on a 12-month rolling total basis, rolled monthly. This facility wide limit includes the CO₂e emissions from Boiler #6, emergency diesel generator, emergency diesel fire pump, and natural gas heater.

For calculating the actual tons of CO₂e from Boiler #6, the Permittee shall use the procedures set forth in 40 CFR Part 98 to determine resulting GHG emissions (as CO₂e) based on the combination of measured by CEMS CO₂ emissions and calculated CO₂e of CH₄ and N₂O. For the purposes of showing compliance with the GHG BACT emission limits, the CH₄ and N₂O emission factors listed in 40 CFR Part 98, Tables C-1 and C-2, and the global warming potential factors listed in 40 CFR Part 98, subpart A, Table A-1 shall be used. The actual CO₂e from the emergency diesel generator, emergency diesel fire pump, and natural gas heater shall be calculated as specified elsewhere in this permit.

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS

Upper Permit Limit: 641878 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 34.1:

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

Emission Unit: G-XEMPT
Process: DFP

Emission Unit: G-XEMPT
Process: EGN

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This requirement applies to Emission Unit G-XEMPT,
Process EGN and DFP

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ. The facility is required to comply with the following conditions for the Emergency Generator and the Diesel Fire Pump:

The existing emergency generator is comprised of a compression ignition (CI) stationary reciprocating internal combustion engine fired by Ultralow Sulfur Diesel (ULSD) fuel oil # 2, rated at 375 horsepower hour (HP).

The existing emergency diesel fire pump engine is comprised of a compression ignition (CI) stationary reciprocating internal combustion engine fired by ULSD fuel oil # 2 and rated at 276 HP.

The Permittee shall comply with the definition of emergency stationary RICE in 40 CFR 63.6675 and the following provisions:

I. Compliance Date:

The compliance date for the two existing engines: May 3, 2013.

[40 CFR 63.6595 (a)]

II. General Requirements for Complying with Subpart ZZZZ

1. The Permittee must be in compliance with the emission



limitations, operating limitations and other applicable requirements of Subpart ZZZZ at all times. [40 CFR 63.6605 (a)]

2. At all times, the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the facility to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to EPA Region 2 which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605 (b)]

III. Emission Limitations, Management Practices and Other Requirements:

1. The Permittee shall comply with the following requirements of 40 CFR 63.6602 and Table 2c, Section 4 of Subpart ZZZZ:

The requirements a through c must be met at all times, except during periods of startup.

a. Change the oil and filter every 500 hours of operation or annually, whichever comes first. The Permittee has the option to utilize an oil analysis program as described in 63.6625(i) in order to extend the specified oil change requirements.

b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

d. The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes after which time the emission standards applicable to all times other than startup apply. [40 CFR 63.6625(h)]

e. If the engine is operating during an emergency and it



is not possible to shut down the engine in order to perform the management practice requirements on the schedules required in Table 2c of Subpart ZZZZ, or if performing the management practice on the required schedules would otherwise pose an unacceptable risk under federal, state or local law, the management practices can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice shall be performed as soon as possible after the emergency has ended or the unacceptable risk has abated. The Permittee shall report any failure to perform the management practice on the schedule required and the federal, state, or local law under which the risk was deemed unacceptable.

2. Operate and maintain the engines and after-treatment control device (if any) according to the manufacturer's emission-related operation and maintenance instructions; or develop and follow your its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good pollution control practices for minimizing emissions. [40 CFR 63.6625 (e)]

3. Install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625 (f)]

4. The Permittee may utilize an oil analysis program in order to extend the oil change requirements specified in 63.602 (a) and Table 2c. The oil analysis must be performed as specified in 63.6625 (i).

5. The Permittee must demonstrate continuous compliance with the each applicable operating limitation in Table 2c in accordance to methods specified in Table 6. [40 CFR 63.6640 (a)]

6. If the Permittee does not operate the engine according to the requirements in 63.6640(f) (1) though (f) (4), then the engine will not be considered an emergency engine under Subpart ZZZZ and must meet all requirements for non-emergency engines. [40 CFR 63.6640 (f)]

The engine may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission authority or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the



Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of the engine beyond 100 hours per calendar year. [40 CFR 63.6640 (f) (2) (i)]

IV. Fuel Requirements

Pursuant to 40 CFR 63.6604(b) the following the Permittee shall comply with the following fuel requirements:

Beginning January 1, 2015, emergency engines that meet all the following conditions must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased prior to January 1, 2015 may be used until depleted.

- Greater than 100 brake HP;
- Displacement of less than 30 liters per cylinder;
- Operates for the purposes specified in 63.6640 (f)(4)(ii)

The diesel fuel requirements of 40 CFR 80.510(b) are as follows: (1) Sulfur content of 15 ppm maximum; and (2) A minimum cetane index of 40, or a maximum aromatic content of 35 volume percent.

V. Recordkeeping Requirements

The Permittee shall keep records showing:

1. The Permittee must keep the records required in Table 6 of Subpart ZZZZ to show continuous compliance with each applicable emission or operating limitation in 40 CFR Part 63, Subpart ZZZZ. [40 CFR 63.6655 (a) and (d)]

2. If applicable, the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. [40CFR 63.6655 (e)]

3. The hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency. The Permittee must keep records of the notification of the emergency situation, and the date, start time and end time of the engine operation for these purposes. [40 CFR 63.6655 (f)]

4. The records must be in a form suitable and readily available for expeditious review. [40 CFR 63.6660 (a) and 40 CFR 63.10 (b) (1)]



5. The Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.6660 (b) and 40 CFR 63.10 (b) (1)]

6. The Permittee must keep each record readily accessible in hard copy or electronic form on site at the source for 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 63.10 (b)(1). [40 CFR 63.6660 (c) and 40 CFR 63.10 (b) (1)]

VI. Reporting Requirements

The Permittee must report to EPA Region 2 each instance in which it did not meet each applicable emission limitation or operating limitation in Table 2c. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported to EPA Region 2 according to the requirements in 63.6650. [40 CFR 63.6640 (b)]

40 CFR 63 Subpart A-General Provisions

The Permittee shall comply with all applicable provisions of 40 CFR Subpart A as outlined in Table 8 of 40 CFR 63 Subpart ZZZZ.

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 1/30/2017.

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

**Condition 35: Mandatory greenhouse gas reporting
Effective between the dates of 09/07/2016 and 09/06/2021**

Applicable Federal Requirement:40 CFR Part 98

Item 35.1:

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

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



**** Emission Unit Level ****

Condition 36: Emission Point Definition By Emission Unit
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 36.1(From Mod 0):

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

Emission Unit: G-00004

Emission Point: 00004

Height (ft.): 227 Diameter (in.): 156
NYTMN (km.): 4727.002 NYTME (km.): 340.321 Building: BOILER

Item 36.2(From Mod 0):

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

Emission Unit: G-00005

Emission Point: 00005

Height (ft.): 23 Diameter (in.): 64
NYTMN (km.): 4727.002 NYTME (km.): 340.321 Building: HMILL

Item 36.3(From Mod 0):

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

Emission Unit: G-FABAH

Emission Point: 00009

Height (ft.): 80 Length (in.): 46 Width (in.): 46
NYTMN (km.): 4727.025 NYTME (km.): 340.346

Emission Point: 00010

Height (ft.): 80 Length (in.): 46 Width (in.): 46
NYTMN (km.): 4727.025 NYTME (km.): 340.346

Emission Point: 00011

Height (ft.): 57 Length (in.): 30 Width (in.): 30
NYTMN (km.): 4727.025 NYTME (km.): 340.346

Emission Point: 00012

Height (ft.): 57 Length (in.): 30 Width (in.): 30
NYTMN (km.): 4727.025 NYTME (km.): 340.346

Emission Point: 00013

Height (ft.): 90 Diameter (in.): 48
NYTMN (km.): 4727.025 NYTME (km.): 340.346

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Facility DEC ID: 8573600004



Item 36.4(From Mod 0):

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

Emission Unit: G-FUGTV

Emission Point: 00017

Height (ft.): Length (in.): Width (in.):

NYTMN (km.): 4727.025 NYTME (km.): 340.346

Item 36.5(From Mod 0):

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

Emission Unit: G-XEMPT

Emission Point: 00021

Height (ft.): 25

Diameter (in.): 6

NYTMN (km.): 4727.025 NYTME (km.): 340.346

Emission Point: 00022

Height (ft.): 25

Diameter (in.): 6

NYTMN (km.): 4727.025 NYTME (km.): 340.346

Emission Point: 00023

Height (ft.): 15

Diameter (in.): 20

NYTMN (km.): 4727.025 NYTME (km.): 340.346

Condition 37: Process Definition By Emission Unit

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 37.1(From Mod 1):

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

Emission Unit: G-00004

Process: P65

Source Classification Code: 1-01-006-01

Process Description:

Combustion of 100% natural gas.

Nitrogen oxides emissions are controlled through the use of a combination of advanced low NO_x firing system(ALNFS), closed-coupled overfire air and staged overfire air combustion practices in conjunction with selective non-catalytic reduction (SNCR) and selective catalytic reduction (SCR). The SNCR and SCR shall be operated at all times, except during startup and shutdown periods as specified elsewhere in this permit. Emissions of nitrogen oxides are measured by the continuous emissions monitoring system (CEMS) on emission point 00004.

Emission Source/Control: B0006 - Combustion

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Design Capacity: 1,117 million Btu per hour

Emission Source/Control: LNB06 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: NCR06 - Control
Control Type: SELECTIVE NON-CATALYTIC REDUCTION
(SNCR)

Emission Source/Control: OFA06 - Control
Control Type: OVERFIRE AIR

Emission Source/Control: SCR06 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 37.2(From Mod 1):

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

Emission Unit: G-00004

Process: P75

Source Classification Code: 1-01-006-01

Process Description:

Combustion of a mixture of natural gas, and biomass [unadulterated wood, including kiln-dried wood, and resinated wood (e.g. particle board)]. The quantity of biomass present in the mixture shall not exceed: 1) 19% on an hourly heat rate basis; and 2) 15 % on an annual heat input basis. The combustion of resinated wood requires the issuance of a case-specific Beneficial Use Determination under 6 NYCRR Part 360-1.15.

Nitrogen oxides emissions are controlled through the use of a combination of advanced low NOx firing system(ALNFS), closed-coupled overfire air and staged overfire air combustion practices in conjunction with selective non-catalytic reduction (SNCR) and selective catalytic reduction (SCR). The SNCR and SCR shall be operated at all times, except during startup and shutdown periods as specified elsewhere in this permit. Particulate matter emissions are controlled by a baghouse when co-firing natural gas and biomass. Emissions of nitrogen oxides are measured by the continuous emissions monitoring system (CEMS) on emission point 00004.

Emission Source/Control: B0006 - Combustion
Design Capacity: 1,117 million Btu per hour

Emission Source/Control: BAG06 - Control
Control Type: FABRIC FILTER

Emission Source/Control: LNB06 - Control
Control Type: LOW NOx BURNER

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Emission Source/Control: NCR06 - Control
Control Type: SELECTIVE NON-CATALYTIC REDUCTION
(SNCR)

Emission Source/Control: OFA06 - Control
Control Type: OVERFIRE AIR

Emission Source/Control: SCR06 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 37.3(From Mod 0):

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

Emission Unit: G-00005
Process: BIO Source Classification Code: 3-05-103-99
Process Description: Biomass handling, storage and processing.

Emission Source/Control: WPILE - Process

Item 37.4(From Mod 0):

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

Emission Unit: G-00005
Process: MIS Source Classification Code: 3-99-999-99
Process Description:
General process emission sources associated with Biomass
(wood) handling and processing.

Emission Source/Control: BAG08 - Control
Control Type: FABRIC FILTER

Emission Source/Control: HMILL - Process

Item 37.5(From Mod 0):

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

Emission Unit: G-00008
Process: P8U Source Classification Code: 3-99-999-99
Process Description: Aqueous urea system

Emission Source/Control: TNK08 - Process

Item 37.6(From Mod 0):

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

Emission Unit: G-FABAH
Process: FBA Source Classification Code: 3-05-102-99
Process Description: Fly ash and bottom ash handling.

Emission Source/Control: BAG10 - Control
Control Type: FABRIC FILTER

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Emission Source/Control: BIN01 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BIN02 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BIN03 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BIN04 - Control
Control Type: FABRIC FILTER

Emission Source/Control: VENT1 - Process

Emission Source/Control: VENT2 - Process

Emission Source/Control: VENT3 - Process

Emission Source/Control: VENT4 - Process

Emission Source/Control: VENT5 - Process

Item 37.7(From Mod 0):

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

Emission Unit: G-FUGTV
Process: FUG Source Classification Code: 3-99-999-99
Process Description: Miscellaneous fugitive sources.

Emission Source/Control: FUG01 - Process

Item 37.8(From Mod 0):

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

Emission Unit: G-XEMPT
Process: DFP Source Classification Code: 2-02-001-02
Process Description: Diesel fire pump

Emission Source/Control: DFP01 - Combustion

Item 37.9(From Mod 0):

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

Emission Unit: G-XEMPT
Process: EGN Source Classification Code: 2-02-001-02
Process Description: Emergency Generator

Emission Source/Control: EGN01 - Combustion
Design Capacity: 375 brake horsepower



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Item 37.10(From Mod 0):

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

Emission Unit: G-XEMPT

Process: NGH

Source Classification Code: 1-05-001-06

Process Description: Natural gas heater

Emission Source/Control: NGH01 - Combustion

**Condition 38: Capping Monitoring Condition
Effective between the dates of 09/07/2016 and 09/06/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 38.1:

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

6 NYCRR Subpart 231-5

Item 38.2:

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

Item 38.3:

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 38.4:

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 38.5:

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 38.6:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 8-5736-00004/00017

Facility DEC ID: 8573600004



CAS No: 0NY998-00-0 VOC

Item 38.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Permittee is avoiding applicability of Non Attainment regulations to the VOC emissions resulting from the facility because the potential to emit of VOC (including formaldehyde) was estimated to be less than 50 tpy.

To demonstrate that the actual VOC emissions (including formaldehyde emissions) would not exceed the NSR applicability threshold, the Permittee shall conduct an initial compliance performance within 180 days of the beginning of commercial production of power to quantify the VOC and formaldehyde emissions, but no later than 180 days after initial startup of Boiler #6. Subsequent compliance performance testing shall be conducted on an annual basis.

For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.

Upper Permit Limit: 49 tons per year

Reference Test Method: 40 CFR 60 App A

Monitoring Frequency: ANNUALLY

Averaging Method: ANNUAL TOTAL

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 39: Capping Monitoring Condition

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 39.1:

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

6 NYCRR Subpart 231-7

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Facility DEC ID: 8573600004



Item 39.2:

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

Item 39.3:

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 39.4:

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 39.5:

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 39.6:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 39.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

SO₂ emissions shall not exceed 39.0 tons per year on a rolling monthly basis including all startups, shutdowns, malfunctions and equipment and process upsets. This limit will avoid the applicability of SO₂ BACT and will be demonstrated through use of an SO₂ CEMS.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 39 tons per year

Reference Test Method: 40 CFR 60 App A

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

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

Item 40.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 40.2:
Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 11/29/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 42: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 42.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 42.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

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Facility DEC ID: 8573600004



Monitoring Description:

NOx emissions shall not exceed 146.8 tons on a 12-month rolling total, rolled monthly, including all startups, shutdowns, malfunctions and equipment and process upsets. This limit will satisfy LAER regulatory requirements and be demonstrated through use of NOx CEMS. This limit is based on 0.03 lb/MMBtu of NOx based on a 12-month rolling average.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 146.8 tons per year

Reference Test Method: 40 CFR 60 App B and F

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 43: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 43.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

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

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

During approximately the first 180 operating days (the "commissioning phase") the facility will continue operation of the existing SCR catalyst in operation at the time of plant protective layup (3/18/11). This will serve as a sacrificial NOx control device to allow residual coal fly ash to be purged from the system. When the commissioning phase is complete the facility will install new SCR catalyst and will notify the Department within 30 days of the date of installation of the new catalyst.

During the commissioning phase, which could be up to the first 180 operating days the facility shall: 1) fire Boiler #6 only on natural gas; 2) comply with the NOx, CO,



PM, PM10, PM2.5, and GHG emissions limits expressed as lb/MMBTU and lb of pollutant per startup and shutdown event specified in this permit; 3) comply with the opacity limits specified in this permit; 4) use all CEMS and COM specified in this permit.; and 5) use the particulate emissions controls at the facility, including but not limited to the fabric filter for Boiler #6, to collect and control the potential particulates and soot that may result during purging of the existing SCR system

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 44: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 44.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

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

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Total emissions of PM-10 shall not exceed 151.7 tons per year on a 12 month rolling total basis, rolled monthly including all startups, shutdowns, malfunctions and upsets. This limit is BACT under Part 231-7.6.

In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 151.7 tpy limit firing natural gas and/or co-firing natural gas and biomass, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new adjusted) annual limit of total PM10 emission limits cannot exceed 205 tpy. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedance of the PM10 limit of 205 tpy that may occur during the initial compliance performance testing shall not be considered violations of the permit conditions.

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Any adjustment to the PM10 emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Upper Permit Limit: 151.7 tons per year
Reference Test Method: 40 CFR 60 App B and F
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 45: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 45.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM2.5 emissions shall not exceed 151.7 tons per year on a 12 month rolling total including all startups, shutdowns, malfunctions and upsets. This limit is BACT under Part 231-7.6.

In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 151.7 tpy limit, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1 hour sampling period for each test run). The new (adjusted) annual limit of total PM2.5 emission limits cannot exceed 205 tpy. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedance of the PM2.5 limit of 205 tpy that may occur during the

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initial compliance performance testing shall not be considered violations of the permit conditions.

Any adjustment to the PM10 emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Upper Permit Limit: 151.7 tons per year
Reference Test Method: 40 CFR 60 App B and F
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 46.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):
CAS No: 000124-38-9 CARBON DIOXIDE

Item 46.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:

Carbon Dioxide emissions shall not exceed 1,562 lb per event during each Startup and Shutdown event while firing natural gas only. Compliance with this limit shall be demonstrated by a CO2 Continuous Emission Monitoring System (CEMS).

Manufacturer Name/Model Number: Continuous Emission Monitor
Upper Permit Limit: 1562 pounds per event
Reference Test Method: 40 CFR 60 App A
Monitoring Frequency: CONTINUOUS
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 47.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 47.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The facility will develop and implement a Leak Detection and Repair (LDAR) Program for the above ground piping on the facility property to minimize fugitive Greenhouse Gases (GHGs) from the natural gas pipeline system. Additionally, the facility will conduct a one-time Energy Assessment (EA) following the procedures specified in 40 CFR Part 63 Subpart DDDDD, Table 3. The EA will be performed within one year of facility commissioning and the report will be maintained on site for Department review upon request. Greenidge will continuously monitor and minimize, to the extent practicable, its station parasitic load.

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 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 48: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 48.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Carbon Dioxide emissions shall not exceed 130.17 lb/MMBtu on a 1-hour block average basis while firing natural gas only or co-firing natural gas and up to 19% biomass during steady state operating conditions. Compliance with this limit shall be demonstrated by a CO2 Continuous Emission Monitoring System (CEMS).

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 130.17 pounds per million Btus

Reference Test Method: 40 CFR 60 App A

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 1/30/2017.

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

Condition 49: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Total filterable particulate emissions shall not exceed 48.9 tons per 12-month rolling total, rolled monthly including all startups, shutdowns, malfunctions and upsets. This limit is BACT under Part 231-7.6. After an initial stack test (comprised of 3 test runs of not less than 1-hour sampling period per test run) to demonstrate compliance, within 180 days of the beginning of commercial production of power, but no later than 180 days after



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initial startup of Boiler #6. Repeat stack testing will be required annually thereafter.

For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.

Upper Permit Limit: 48.9 tons per year
Reference Test Method: 40 CFR 60 App A M 5
Monitoring Frequency: ANNUALLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 50: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 50.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 50.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

A carbon monoxide emission limit of 464.8 tons per year on a 12-month rolling total, rolled monthly shall include all startups, shutdowns, malfunctions and upsets. This limit is BACT under Part 231-7.6 and will be monitored by a CEMS. This CO tpy limit is based on a CO limit of 0.095 lb/MMBTU on a 12-month rolling average.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 464.8 tons per year
Reference Test Method: 40 CFR 60 Appendix B and F
Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

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Monitoring Description:

This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is attached to this Title V facility operating permit.

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 1/30/2017.

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

Condition 53: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 75.10(a), Subpart B

Item 53.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall measure opacity and all SO₂, NO_x, CO, NH₃, and CO₂ emissions for each affected unit as follows:

(1) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements of this part, a SO₂ CEMS and a flow monitoring system with the automated data acquisition and handling system for measuring and recording SO₂ concentration (in ppm), volumetric gas flow (in scfh), and SO₂ mass emissions (in lb/hr) discharged to the atmosphere, except as provided in §§75.11 and 75.16 and subpart E of this part;

(2) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements of this part, a NO_x CEMS (consisting of a NO_x pollutant concentration monitor and an O₂ or CO₂ diluent gas monitor) with the automated data acquisition and handling system for measuring and recording NO_x concentration (in ppm), O₂ or CO₂ concentration (in percent O₂ or CO₂) and NO_x emission rate (in lb/MMBtu) discharged to the atmosphere. The owner or operator shall account for total NO_x emissions, both NO and NO₂, either by monitoring for both NO and NO₂ or by monitoring for NO only and adjusting the emissions data to account



for NO₂;

(3) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements of this part, a CO₂ CEMS and a flow monitoring system with the automated data acquisition and handling system for measuring and recording CO₂ concentration (in ppm or percent), volumetric gas flow (in scfh), and CO₂ mass emissions (in tons/hr) discharged to the atmosphere;

(4) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements in this part, a continuous opacity monitoring system with the automated data acquisition and handling system for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere;

(5) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements in this part, a continuous CO CEMS with the automated data acquisition and handling system for measuring and recording the CO emissions (in lb/MMBtu) discharged to the atmosphere;

(6) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements in this part, a continuous Ammonia (NH₃) CEMS with the automated data acquisition and handling system for measuring and recording the NH₃ emissions (in ppmvd @ 3% O₂) discharged to the atmosphere.

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 1/30/2017.

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

Condition 54: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 75.10(b), Subpart B

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Primary Equipment Performance Requirements. The owner or



operator shall ensure that each CEMS required by this part meets the equipment, installation, and performance specifications in Appendix A to this part; and is maintained according to the quality assurance and quality control procedures in Appendix B to this part; and shall record SO₂ and NO_x emissions in the appropriate units of measurement (i.e., lb/hr for SO₂ and lb/mmBtu for NO_x).

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 1/30/2017.

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

Condition 55: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 75.10(c), Subpart B

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The Permittee shall install, calibrate, maintain, and operate on a continuous basis monitoring systems or devices for the following parameters:

- a. Steam turbine's energy output in megawatts hour (MW-hour) on an hourly basis.
- b. The volume of natural gas consumed on an hourly basis.
- c. The amount of each type of biomass charged.
- d. Actual heat input rate (MMBtu/hr), which shall be determined as follows:
 1. The actual heat input rate from natural gas shall be determined as the product of the actual measured amount of natural gas consumed and the heating value specified in this permit.
 2. The actual heat input from biomass shall be determined as the product of the actual (weighted) amount of biomass charged to the boiler, and the actual heating value (i.e.,

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heat content) of the biomass expressed as MMBtu/ton. The heating value (MMBtu/ton) of the biomass shall be determined by the procedures contained in the American Society of Mechanical Engineers (ASME) Performance Test, or other procedures upon NYSDEC's approval.

3. The biomass charged to the boiler # 6 must have a minimum heating value of 5,000 BTU/lb.

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 1/30/2017.

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

Condition 56: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 75.10(d), Subpart B

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Primary equipment hourly operating requirements. The owner or operator shall ensure that all continuous emission and opacity monitoring systems required by this part are in operation and monitoring unit emissions or opacity at all times that the affected unit combusts any fuel except as provided in §75.11(e) and during periods of calibration, quality assurance, or preventive maintenance, performed pursuant to §75.21 and appendix B of this part, periods of repair, periods of backups of data from the data acquisition and handling system, or recertification performed pursuant to §75.20. The owner or operator shall also ensure, subject to the exceptions above in this paragraph, that all continuous opacity monitoring systems required by this part are in operation and monitoring opacity during the time following combustion when fans are still operating, unless fan operation is not required to be included under any other applicable Federal, State, or local regulation, or permit. The owner or operator shall ensure that the following requirements are met:

(1) The owner or operator shall ensure that each CEMS and component thereof is capable of completing a minimum



of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-min interval. The owner or operator shall reduce all SO₂ concentrations, volumetric flow, SO₂ mass emissions, SO₂ emission rate in lb/mmBtu (if applicable), CO₂ concentration, O₂ concentration, CO₂ mass emissions (if applicable), NO_x concentration, NO_x emission rate data, and NH₃ concentration data collected by the monitors to hourly averages. Hourly averages shall be computed using at least one data point in each fifteen minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly average may be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour) if data are unavailable as a result of the performance of calibration, quality assurance, or preventive maintenance activities pursuant to §75.21 and appendix B of this part, backups of data from the data acquisition and handling system, or recertification, pursuant to §75.20. The owner or operator shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour.

(2) The owner or operator shall ensure that each continuous opacity monitoring system is capable of completing a minimum of one cycle of sampling and analyzing for each successive 10-sec period and one cycle of data recording for each successive 6-min period. The owner or operator shall reduce all opacity data to 6-min averages calculated in accordance with the provisions of part 51, appendix M of this chapter, except where the applicable State implementation plan or operating permit requires a different averaging period, in which case the State requirement shall satisfy this Acid Rain Program requirement.

(3) Failure of an SO₂, CO₂ or O₂ pollutant concentration monitor, flow monitor, NH₃ or NO_x CEMS, to acquire the minimum number of data points for calculation of an hourly average in paragraph (d)(1) of this section, shall result in the failure to obtain a valid hour of data and the loss of such component data for the entire hour. An hourly average NO_x or SO₂ emission rate in lb/mmBtu is valid only if the minimum number of data points are acquired by both the pollutant concentration monitor (NO_x or SO₂) and the diluent monitor (CO₂ or O₂). Except for SO₂ emission rate data in lb/mmBtu, if a valid hour of data is not obtained, the owner or operator shall estimate and record emission or flow data for the missing hour by means of the automated data acquisition and handling system, in

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accordance with the applicable procedure for missing data substitution in subpart D of this part.

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 1/30/2017.

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

Condition 57: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 75.13(a), Subpart B

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall meet the general operating requirements in §75.10 for a CO₂ and NH₃ continuous emission monitoring system and flow monitoring system for each affected unit. The owner or operator shall comply with the applicable provisions specified in §§75.11(a) through (e) or §75.16, except that the phrase "CO₂ continuous emission monitoring system" and/or "NH₃ continuous emission monitoring system" shall apply rather than "SO₂ continuous emission monitoring system," the phrase "CO₂ concentration" and/or "NH₃ concentration" shall apply rather than "SO₂ concentration," the term "maximum potential concentration of CO₂" "maximum potential concentration of NH₃" shall apply rather than "maximum potential concentration of SO₂," and the phrase "CO₂ mass emissions" and/or "NH₃ mass emissions" shall apply rather than "SO₂ mass emissions."

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 1/30/2017.

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

Condition 58: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021



Applicable Federal Requirement:40CFR 75.20, Subpart C

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Whenever the owner or operator makes a replacement, modification, or change in a certified continuous emission monitoring system or continuous opacity monitoring system that may significantly affect the ability of the system to accurately measure or record the NH₃, SO₂ or CO₂ concentration, stack gas volumetric flow rate, NO_x emission rate, NO_x concentration, percent moisture, or opacity, or to meet the requirements of §75.21 or appendix B to this part, the owner or operator shall recertify the continuous emission monitoring system or continuous opacity monitoring system, according to the procedures in this paragraph. Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit operation that may significantly change the flow or concentration profile, the owner or operator shall recertify the monitoring system according to the procedures in this paragraph. Examples of changes which require recertification include: replacement of the analyzer; change in location or orientation of the sampling probe or site; and complete replacement of an existing continuous emission monitoring system or continuous opacity monitoring system.

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 1/30/2017.

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

Condition 59: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 75.64(a), Subpart G

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The designated representative for an affected unit shall electronically report the data and information indicated below to USEPA quarterly. Each report must be submitted within 30 days of the end of each calendar quarter and shall include:

- (1) The information and hourly data required in 40 CFR 75.50 through 75.52 (or 75.54 through 75.56), excluding descriptions of adjustments, corrective action, and maintenance; information which is incompatible with electronic reporting (e.g., field data sheets, lab analyses, quality control plan); opacity data listed in 40 CFR 75.50(f) or 75.54(f); for units with SO₂ or NO_x add-on emission controls that do not elect to use the approved site-specific parametric monitoring procedures for calculation of substitute data, the information in 40 CFR 75.55(b)(3); and the information recorded under 40 CFR 75.56(a)(7) from the period prior to January 1, 1996.
- (2) Tons (rounded to the nearest tenth) of SO₂ emitted during the quarter and cumulative SO₂ emissions for the calendar year.
- (3) Average NO_x emission rate (pounds per million BTU, rounded to the nearest hundredth) during the quarter and cumulative NO_x emission rate for the calendar year.
- (4) Tons of CO₂ emitted during the quarter and cumulative CO₂ emissions for the calendar year.
- (5) Total heat input (million BTU) for the quarter and cumulative heat input for the calendar year.

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 1/30/2017.

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

Condition 60: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA

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Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

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

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.
- (2) The facility, and the designated representative, of each TR NOx Annual source (facility) and each TR NOx Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.
- (3) The emissions data determined shall be used to calculate allocations of TR NOx Annual allowances and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual facility and each TR NOx Annual Unit at the facility shall hold, in the facilities compliance account, TR NOx Annual allowances available for deduction for such control period

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under §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOX Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 61: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 97.506, Subpart BBBBB

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

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

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.513 through 97.518 of Subpart BBBBB. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NOx Ozone Season source (facility) and each TR NOx Ozone Season Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535 of Subpart BBBBB and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each



year.

(3) The emissions data determined shall be used to calculate allocations of TR NO_x Ozone Season allowances and to determine compliance with the TR NO_x Ozone Season emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season facility and each TR NO_x Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 62: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:40CFR 97.606, Subpart CCCCC

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618 of Subpart CCCCC. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR SO₂ Group 1 source (facility) and each TR SO₂ Group 1 Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of



§§97.630 through 97.635 of Subpart CCCCC and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR SO₂ Group 1 allowances and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 facility and each TR SO₂ Group 1 Unit at the facility shall hold, in the facilities compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-2: Compliance Certification
Effective between the dates of 04/25/2019 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 1-2.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P65

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 1-2.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Compliance with this limit shall be demonstrated by an Ammonia Continuous Emission Monitoring System (CEMS). The

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Permittee shall not allow to discharge emissions of ammonia (NH₃) into the atmosphere in excess of 20 ppmvd @ 3% O₂ (1-hour block average) from the SNCR/SCR system controlling Boiler #6. The Permittee shall install and operate CEMS for NH₃ slip emissions.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 20 parts per million by volume (dry, corrected to 3% oxygen)

Reference Test Method: 40 CFR 60 App A

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 7/30/2019.

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

Condition 64: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P65

Regulated Contaminant(s):

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

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NO_x emissions shall not exceed 0.0365 lb/MMBtu on a 1 hr block basis while firing natural gas only. This limit does not include startups, shutdowns, malfunctions or upsets. This limit will satisfy LAER regulatory requirements and be demonstrated through use of NO_x CEMS. This limit is more stringent than the NO_x RACT requirements of 6 NYCRR Part 227-2. That being the case, only the most stringent NO_x limitation (LAER) is included in the permit to avoid conflicting NO_x emission limits for this process.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 0.0365 pounds per million Btus

Reference Test Method: 40 CFR 60 App A

Monitoring Frequency: CONTINUOUS



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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 1/30/2017.

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

Condition 65: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P65

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

While firing natural gas emissions of PM_{2.5} from Unit G-00004 must not exceed 0.00825 lb/MMBtu. An initial stack test to demonstrate compliance with the PM_{2.5} emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed within 180 days of the beginning of commercial production of power, but no later than 180 days after initial startup of Boiler #6.

For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.

In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 0.00825 lb/MMBtu firing natural gas, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of total PM_{2.5} emission limits cannot exceed 0.021 lb/MMBtu. The new limits can only be established based on

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the NYSDEC's and EPA's review of the performance compliance testing data. The exceedance of the PM_{2.5} limit of 0.00825 lb/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.021 lb/MMBtu shall not be considered violations of the permit conditions.

Any adjustment to the PM_{2.5} emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Additional compliance testing for PM_{2.5} emissions from Unit G-00004 will be required annually.

Upper Permit Limit: 0.00825 pounds per million Btus
Reference Test Method: 40 CFR 60 App A M-5 and 40 CFR 51 App M M-202
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 66: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P65

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

While firing natural gas only emissions of PM-10 from Unit G-00004 must not exceed 0.00825 lb/MMBtu. An initial stack test to demonstrate compliance with the PM-10 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed

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Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P65

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

While firing natural gas only from Unit G-00004 are must not exceed 0.002 lb/MMBtu. An initial stack test to demonstrate compliance with the PM emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed within 180 days of the beginning of commercial production of power, but no later than 180 days after the initial startup of Boiler #6.

For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.

Additional compliance testing for PM emissions from Unit G-00004 will be conducted annually.

This condition also satisfies the requirements of 6 NYCRR Part 227-1.

Upper Permit Limit: 0.002 pounds per million Btus

Reference Test Method: 40 CFR 60 App A M-5 and 40 CFR 51 App M M-202

Monitoring Frequency: ANNUALLY

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 1-3: Compliance Certification
Effective between the dates of 04/25/2019 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.6

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Item 1-3.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P65

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 1-3.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions shall not exceed 100 ppm by volume at 3% O₂ on a 24-hour weighted block average. This equates to 0.075 lb/MMBtu on a 24-hour weighted block average. The previously permitted BACT limit of 50 ppm was unattainable concurrently with NO_x LAER, therefore, 100 ppm or 0.075 lb CO/MMBtu is BACT while complying with NO_x LAER.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 0.075 pounds per million Btus

Reference Test Method: 40 CFR 60 App A

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 7/30/2019.

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

Condition 69: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall only burn wood which has not been treated with creosote, pentachlorophenol chromate, copper arsenate, or other copper, chromium or arsenical



preservatives.

Each delivery must be accompanied by documentation from suppliers demonstrating that the respective load meets biomass specifications listed in this permit.

The Permittee shall inspect each delivery upon receipt and during unloading for any materials or items that are not authorized by this permit. If any such materials are identified those materials must be removed and the supplier be notified. Those materials must be disposed following the plan approved by NYSDEC.

The Permittee shall develop a plan that shall explicitly identify the procedures that should be used to manage and dispose those materials that were identifies as not permitted for combustion. This plan shall be approved by NYSDEC.

The Permittee shall maintain records of: (1) documentation from the suppliers and (2) the amount of removed/rejected materials, and the reason for rejection.

Biomass Specifications: For the purposes of this permit biomass shall consist of: clean unadulterated wood, including unadulterated kiln-dried wood, and resinated wood.

Clean unadulterated wood can include items specified in the definition unadulterated wood in NYSDEC Policy DAR-3: wood that is not painted or treated with chemicals such as glues, preservatives or adhesives. Any painted wood or chemically treated wood (e.g., pressure treated wood, treated railroad ties) or wood containing glues or adhesives (e.g., plywood, particle board) is considered adulterated wood.

Resinated wood can include items specified in NYSDEC Policy DAR-3 for particle board. Particle board shall be considered to consist of particle board from all different sources, except if the particle board has been coated with chemical adulterants other than the glues used to manufacture it (e.g., paints or other treatments). Particle board laminated with unadulterated wood or paper shall also be included in this category.”

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 1/30/2017.

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

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Condition 70: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

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

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The NOx emission limit will be 0.05 lb/MMBtu for a 30 day block weighted average while co-firing natural gas and up to 19% biomass. This limit does not apply during start up, shutdown, malfunction, and upsets. This limit is more stringent than the NOx RACT requirements of 6 NYCRR Part 227-2. That being the case, only the most stringent NOx limitation (LAER) is included in the permit to avoid conflicting NOx emission limits for this process.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 0.05 pounds per million Btus

Reference Test Method: 40 CFR 60 App A

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 1/30/2017.

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

Condition 71: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

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

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This emission limitation of 0.058 lb/MMBtu 1-hour block average represents the Lowest Achievable Emission Rate (LAER) when the facility is co-firing natural gas and up to 19% biomass. This limit does not apply during start up, shutdown, malfunction and upsets. Continuous compliance will be demonstrated by use of a NO_x CEMS. The averaging period for this limit is 1 block-hour period. In the event that the CEMS outlet data collected by the Permittee before the date of the initial compliance performance testing or the actual data supplied by the initial compliance performance testing indicates that the Permittee cannot meet the 0.058 lb/MMBtu NO_x limit, the NYSDEC may adjust this NO_x emission limit upward at a level not to exceed two standard deviations above the mean of the three 1-hour test runs. The new (adjusted) level of NO_x emission limit cannot exceed 0.08 lb/MMBtu, while the boiler is fired on a combination of natural gas and up to 19% biomass. The new limit can only be established based on the NYSDEC and EPA's review of the stack test results and CEMS outlet data. This change in the permit may be accomplished administratively. The exceedances of the NO_x limit of 0.058 lb/MMBtu that may occur prior to the date of the initial compliance performance testing, and, which would be below 0.08 lb/MMBtu (for a combination of natural gas and up to 19% biomass) shall not be considered a violation of the permit conditions.

Any adjustment to the NO_x emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

This limit is more stringent than the NO_x RACT requirements of 6 NYCRR Part 227-2. That being the case, only the most stringent NO_x limitation (LAER) is included in the permit to avoid conflicting NO_x emission limits for this process.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 0.058 pounds per million Btus

Reference Test Method: 40 CFR 60 App A

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING

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DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 72: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

While co-firing natural gas and up to 19% biomass emissions of PM_{2.5} from Unit G-00004 must not exceed 0.031 lb/MMBtu. An initial stack test to demonstrate compliance with the PM_{2.5} emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed within 180 days of introduction of biomass co-firing for the purposes of commercial production of power, but no later than 180 days after the initial startup of Boiler #6.

For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.

In the event that during the initial compliance performance testing it would be determined that the Permittee cannot meet the 0.031 lb/MMBtu co-firing natural gas and biomass, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of total PM_{2.5} emission limits cannot exceed 0.0419 lb/MMBtu. The new

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limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedances of the PM_{2.5} limit of 0.031 lb/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.0419 lb/MMBtu shall not be considered violations of the permit conditions.

Any adjustment to the PM_{2.5} emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Additional compliance testing for PM_{2.5} emissions from Unit G-00004 will be required annually.

Upper Permit Limit: 0.031 pounds per million Btus
Reference Test Method: 40 CFR 60 App A M-5 and 40 CFR 51 App M M-202
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 73: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

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

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

While co-firing natural gas and up to 19% biomass emissions of filterable PM from Unit G-00004 must not exceed 0.01 lb/MMBtu. An initial stack test to demonstrate compliance with the PM emission rate (comprised of 3 test runs of not less than 1-hour sampling

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period per test run), must be completed within 180 days of the beginning of commercial production of power, but not later than 180 days after initial startup of Boiler #6.

For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.

Additional compliance testing for PM emissions from Unit G-00004 will be conducted annually.

This condition will also satisfy the requirements of 6 NYCRR Part 227-1.

Upper Permit Limit: 0.01 pounds per million Btus
Reference Test Method: 40 CFR 60 App A M-5
Monitoring Frequency: ANNUALLY
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 74: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.5

Item 74.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10

Item 74.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

While co-firing natural gas and biomass emissions of PM-10 from Unit G-00004 must not exceed 0.031 lb/MMBtu. An initial stack test to demonstrate compliance with the PM-10 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be

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Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Leak detectors shall be used to ensure proper operation of the baghouse. The Permittee shall install, calibrate, maintain, and continuously operate a Bag Leak Detection System; Each Bag Leak Detection System must be installed, operated, calibrated and maintained in a manner consistent with the manufacturer's written specifications and recommendation.

The Bag Leak Detection System sensor must provide output relative or absolute particulate matter loadings, and must be equipped with a device to continuously record the output signal from the sensor.

The Bag Leak Detection System must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel

If an alarm is received, a visual inspection will be made to determine the cause of the alarm. Visual inspections shall be conducted as soon as practical, but no later than one hour after the alarm is received.

If a leak is detected by visual inspection the affected baghouse module will be taken offline and necessary repairs shall be made before resuming use of the module.

Records of alarms, inspection results and filter replacements shall be maintained on site and made available to the Department upon request.

This condition also satisfies the requirements of 6 NYCRR Part 227-1.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 76: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 76.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The Permittee shall use the fabric filters baghouse at all times biomass is fired in Boiler #6.

Bag house pressure drop shall be measured and recorded as an indicator of particulate emission control. The pressure drop values are valid between 30 and 107 MW operating load.

On a calendar quarter basis, the owner or operator shall submit to the DEC a report stating all periods where the baghouse differential pressure exceeded the permitted levels. For each such period, the owner or operator shall state the time the excursion commenced; the time the excursion ceased; the cause of the excursion; and the corrective action taken to resolve the excursion.

This condition also covers emission control and monitoring otherwise required by 6 NYCRR Part 227-1 and 40 CFR 64.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 3.0 inches of water

Upper Permit Limit: 10.0 inches of water

Reference Test Method: 40 CFR 60 Appendix A, Method 5

Monitoring Frequency: DAILY

Averaging Method: RANGE-NOT TO FALL OUTSIDE OF STATED
RANGE EXCEPT DURING STARTUP/SHUTDOWN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Facility DEC ID: 8573600004



Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 77: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions shall not exceed 100 ppm by volume at 3% O₂ on a 24-hour weighted block average while cofiring natural gas and up to 19% biomass. This equates to 0.075 lb/MMBtu on a 24-hour block average. In the event that the CEMS outlet data collected by the Permittee before the date of the initial compliance performance testing (provided that the Permittee has conducted the CEMS performance evaluation as required by EPA), which is required by the permit for other pollutants, would indicate that the Permittee cannot meet the 0.075 lb/MMBtu CO BACT limits, NYSDEC may adjust each one of the CO emissions limits upward at a level not to exceed two standard deviations above the average of the CO CEMS outlet data collected by the Permittee before the date of the initial compliance performance testing. The new (adjusted) CO emission limits cannot exceed 0.151 lb/MMBtu and 200 ppm by volume, while the boiler is fired on a combination of natural gas and up to 19% biomass. The new limits can only be established based on the NYSDEC and EPA's review of the CEMS outlet data. This change in the permit may be accomplished administratively. The exceedances of the CO limit of 0.075 lb/MMBtu and 100 ppm by volume that may occur prior to the date of the initial compliance performance testing required by this permit for other pollutants and, which would be below 0.151 lb/MMBtu and 200 ppm by volume (for a combination of natural gas and up to 19% biomass) shall not be considered violations of the permit conditions.



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Any adjustment to the CO emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Manufacturer Name/Model Number: Continuous Emission Monitor
Upper Permit Limit: 0.075 pounds per million Btus
Reference Test Method: 40 CFR 60 App A
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 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 78: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions shall not exceed 100 ppm by volume at 3% O₂ on a 30-operating day weighted block average while co-firing natural gas and up to 19% biomass. This equates to 0.075 lb/MMBtu on a 30-operating day weighted block average.

Manufacturer Name/Model Number: Continuous Emission Monitor
Upper Permit Limit: 0.075 pounds per million Btus
Reference Test Method: 40 CFR 60 App A
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

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The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 79: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00005

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility receives clean wood via truck delivery. Trucks delivering wood to the facility are weighed prior to unloading (gross weight) and immediately after unloading (tare weight). The gross and tare weights for each truck are automatically recorded by the facility truck scale system. A copy of the driver's weigh slip can be produced upon request.

The material is unloaded and stockpiled in a covered 8,000 ft² storage area. The primary wood storage area is a covered building located west of the generating plant. This storage area has the capacity to store approximately twenty truck loads or 50,000 ft³ of wood. It has a floor drain that discharges water for treatment in the plant's existing waste water treatment plant. Any deliveries beyond the storage capability of the covered storage area can be temporarily stockpiled and covered with tarps at secondary storage locations until transported back to the processing area. The secondary storage locations are located at the southeast section of the existing lined [former] coal pile while the other is on the asphalt pavement located to the west of the primary wood storage area.

When needed the stockpiled wood in the covered storage area is pushed by a front-end loader onto a hydraulic walking floor for transport to the processing area. The biomass passes through detectors to remove any metal and then is screened to size. The wood is then processed through two parallel hammer mills with a maximum combined feed rate of 30 tons per hour (TPH) and a turn down capability of three (3) TPH. All processed wood is pneumatically conveyed to the biomass storage silos. As needed, this stored processed wood is weighed and



pneumatically conveyed to the boiler at a maximum feed rate of 25 TPH.

The received wood is pushed with a front-end type loader onto a hydraulic walking floor that automatically moves it to a conveyor at a varying rate that is controlled by the level in the hammer mill metering bin. The conveyor passes the wood through a ferrous and non-ferrous detector for automatic metal removal before being fed into a screener.

The screener is capable of separating oversized pieces (greater than 2") and undersized pieces (1/4" minus) from the biomass stream. Oversized material is conveyed to a container for appropriate disposal. Metal is either recycled or properly disposed. The undersized material (1/4" minus) from the screener is pneumatically conveyed to the processed wood storage area and transfer into a silo, without further processing.

The remainder of the biomass material is transported via conveyor to the hammer mill area at a maximum rate of 2,500 ft³/hr. It is deposited into a 1,000 ft³ metering bin that feeds two parallel hammer mills. The level in this metering bin is measured by an ultrasonic level detector which is used to control the feed rate of the walking floor. The two hammer mills produce 1/4" minus material at a combined maximum rate of 3,000 ft³/hr.

All material which passes the 1/4" minus screening along with the biomass that is produced by the hammer mills is pneumatically conveyed to one of two 23,000 ft³ storage silos. Then, on an as needed basis, all processed biomass is weighed and conveyed to a transport metering bin that can feed four individual pneumatic lines. Each pneumatic line is powered by its own blower where any combination of three blowers can deliver a maximum of 10 TPH (nominal 212 MMBtu/hr) of biomass to the boiler. The ground biomass is pneumatically conveyed from the silos to the boiler. The boiler still uses the same biomass injection ports that were used to co-fire with pulverized coal. The ports are simple tubes located on three levels, and in each corner (there are presently 12 total), one each directly above each T-fired corner burner assembly. Natural gas is fired in these burners. The biomass is pneumatically "blown-in" (as you would picture the placement of blown-in" wall insulation in a home) directly into the swirling fireball combustion geometry of a T-fired boiler. The biomass is therefore said to burn in suspension.

The facility cannot fire biomass by itself – the unit is designed only for co-firing of biomass together with a primary fuel. Greenidge has committed to limiting the



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Upper Permit Limit: 20 percent
Reference Test Method: 40 CFR 60 Appendix A Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 81: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 81.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00005

Item 81.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The biomass handling, storage, and processing system is described elsewhere in this permit.

Air Pollution Equipment

Compliance with PSD regulations for the biomass handling, storage, and processing system shall be demonstrated by the following the established operating and work practices

The Permittee shall install and continuously operate and maintain the following air pollution control equipment for the control of particulate emissions resulting from the biomass handling, storage, and processing system:

- Fabric Filter for the wood hammer mill
- Bin Vent Filter for the processed wood conveyance system

The pressure drop (inches of column water) across the fabric filter controlling the wood hammer mill and the bin vent filter controlling the wood conveyance system shall be maintained within a range of 1 to 5 inches while the emission unit is in operation.

The permittee shall continuously monitor the pressure drop across each bin vent filter and the fabric filter.



The wood conveyors and the conveyor transfer points shall be enclosed, sealed, and kept under negative pressure.

The Permittee shall maintain and inspect the bin vent filters and the fabric filter following the manufacturer recommendations.

The fabric filter bin vent filter and shall be provided with adequate access for inspection.

The hours of operation for each the fabric filter and the bin vent filter are limited to 2,088 hours per year, respectively 8 hours per day from 10:00 AM to 5:00 PM on weekdays.

Emissions Limitations

The emissions of PM, PM10, and PM2.5 from the exhaust of each the fabric filter and the bin vent filter controlling the wood hammer mill and the wood conveyance system shall not exceed the following limits for each BACT pollutant:

- PM BACT emissions limit: 0.0005 lb/hr
- PM10 BACT emissions limit: 0.0003 lb/hr
- PM2.5 BACT emissions limit: 0.00004 lb/hr
- PM, PM10 and PM2.5 BACT emissions shall include only filterable particulate matter.

Visible Emissions – Opacity: Biomass Handling, Storage, and Processing System

The opacity of emissions from the exhaust of the fabric filter and bin vent filter controlling the wood hammer mill and the wood conveyance system shall not exceed an opacity equal to or greater than 20% opacity (based on six minute average) except for the emissions of uncombined water. This is a BACT requirement.

Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days from startup of the biomass handling, storage, and processing system.

Subsequent Compliance Tests: The Permittee shall conduct



performance testing for visible emissions on a quarterly basis.

Reference Test Method: Method 9

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 1/30/2017.

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

Condition 82: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-FABAH

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Ash Handling, Storage, and Disposal System-BACT Limits

The combustion of biomass (unadulterated and resinated wood) in Boiler #6 would result in the formation of bottom and fly ash.

A. Fly Ash Handling, Storage, and Disposal System

Description

The fly ash handling, storage and disposal system shall include the following air pollution equipment and emissions limitations.

1. Air Pollution Equipment

Compliance with PSD regulations for the fly ash handling, storage, and disposal system shall be demonstrated by the using the following BACT, operating and work practices. The Permittee shall install and continuously operate and maintain the following air pollution control equipment for



the control of particulate emissions resulting from the fly ash handling, storage, and disposal system:

Two Bin Vent Filters for the Day Fly Ash Silo 1 and Day Fly Ash

Two Bin Vent Filters (Bin Filter #1 and #2) for the Main Fly Ash Silo.

One Fabric Filter for the Main Fly Ash Silo.

- a. The nameplate capacity of each of the bin vent filters controlling the Day Fly Ash Silo 1 and Silo 2 shall not exceed a maximum design inlet gas air flow rate of 100 actual cubic feet per minute (acfm).
- b. The nameplate capacity of the Bin Vent Filter #1 controlling the Main Fly Ash Silo shall not exceed a maximum design inlet gas air flow rate of 1,000 actual cubic feet per minute (acfm).
- c. The nameplate capacity of each the fabric filter, and the Bin Vent Filter #2 shall not exceed a maximum design inlet gas air flow rate of 1,600 actual cubic feet per minute (acfm).
- d. The pressure drop (inches of column water) across each bin vent filter shall be maintained within a range of 1 to 5 inches while the emission unit is in operation.
- e. The pressure drop (inches of column water) across the fabric filter shall be maintained within a range of 1 to 6 inches while the emission unit is in operation.
- f. The permittee shall continuously monitor the pressure drop across each bin vent filter and the fabric filter.
- g. Each bin vent filter and the fabric filter shall be designed to achieve a particulate matter emission rate of 0.01 grains/dscf or less. Compliance with this requirement shall be demonstrated based on the manufacturer's written guarantees.
- h. The fly ash conveyors and the conveyor transfer points shall be enclosed, sealed, and kept under negative pressure.
- i. All fly ash shall be conditioned prior to transfer for disposal.
- j. The Permittee shall maintain and inspect the bin vent



filters and the fabric filter following the manufacturer recommendations.

k. The bin vent filters and the fabric filter shall be provided with adequate access for inspection.

l. The hours of operation for the two Bin Vent Filters for the Day Fly Ash Silos and the Bin Vent Filters for the Main Fly Ash Silo are limited to 8 hours per day from 10:00 AM to 5:00 PM on weekdays.

2. Emissions Limitations

The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the fly ash handling, storage and disposal systems:

a. The emissions of PM, PM10, and PM2.5 from the exhaust of each bin vent filter controlling the Day Fly Ash Silo 1 and Day Fly Ash Silo 2 shall not exceed the following limits for each BACT pollutant:

- PM/PM10/PM2.5: BACT emissions limit: 0.01 lb/hr
- PM, PM10, and PM2.5 emissions shall include only filterable particulate matter.

b. The emissions of PM, PM10, and PM2.5 from the exhaust of each Bin Vent Filter #2 and the fabric filter shall not exceed the following limits for each BACT pollutant:

- PM/PM10/PM2.5: BACT emissions limit: 0.14 lb/hr
- PM, PM10, and PM2.5 emissions shall include only filterable particulate matter.

c. The emissions of PM, PM10, and PM2.5 from the exhaust of Bin Vent Filter #1 shall not exceed the following limits for each BACT pollutant:

- PM/PM10/PM2.5: BACT emissions limit: 0.09 lb/hr
- PM, PM10, and PM2.5 emissions shall include only filterable particulate matter.

3. Visible Emissions – Opacity: Fly Ash Handling, Storage, and Disposal System

The opacity of emissions from the exhaust of the bin vent



filters and fabric filter, and from the fly ash conveying system shall not exceed an average opacity equal to or greater than 20% opacity (based on six minute average), except for the emissions of uncombined water. This is a BACT requirement.

Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the fly ash handling, storage, and disposal system.

Subsequent Compliance Tests: The Permittee shall conduct performance testing for visible emissions on a quarterly basis.

Reference Test Method: Method 9

B. Bottom Ash Handling, Storage, and Disposal System

1. Description

The bottom ash handling, storage and disposal system air pollution equipment and emissions limitations shall include the following:

2. Air Pollution Equipment

Compliance with PSD regulations for the bottom ash handling, storage, and disposal system shall be demonstrated by the using the following BACT, operating and work practices: Biomass bottom ash is typically consistent with fly ash and will be managed in a manner consistent with the work practices and procedures developed for the fly ash handling and disposal system.

The bottom ash conveyors and the conveyor transfer points shall be enclosed, sealed, and kept under negative pressure.

3. Emissions Limitations

The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the bottom ash handling, storage and disposal systems:

The emissions of PM, PM10, and PM2.5 from the bottom ash handling, storage, and disposal system shall not exceed the following limits for each BACT pollutant:

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PM/PM10/PM2.5: BACT emissions limit: 0.14 lb/hr

PM, PM10, and PM2.5 emissions shall include only filterable particulate matter.

4. Visible Emissions – Opacity: Bottom Ash Handling, Storage, and Disposal System

The opacity of emissions from the exhaust of the bin vent filters and fabric filter, and from the fly ash conveying system shall not exceed an average opacity equal to or greater than 20% opacity (based on six minute average), except for the emissions of uncombined water. This is a BACT requirement.

Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the Bottom Ash Handling, Storage, and Disposal System.

Subsequent Compliance Tests: The Permittee shall conduct performance testing for visible emissions on a quarterly basis.

Reference Test Method: Method 9

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 1/30/2017.

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

Condition 83: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-FUGTV

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The fugitive emissions of PM, PM10, and PM2.5 from the outdoor biomass storage, enclosed processing buildings, biomass handling, storage, and processing system, fly and



bottom ash handling, storage, and disposal systems, and truck traffic on facility roadways shall not exceed the following limits for each BACT pollutant:

- The fugitive PM emissions shall not exceed 5 tons per year (based on 12-month rolling total).
- The fugitive PM10 emissions shall not exceed 1.2 tons per year (based on 12-month rolling total).
- The fugitive dust PM2.5 emissions shall not exceed 0.23 tons per year (based on 12-month rolling total).

Compliance with the fugitive PM, PM10, and PM2.5 BACT emissions limits shall be determined by using the emission factors, equations, and assumptions in Section 13.2.1 of the AP-42 Emission Factors, January 2011, for paved roadways. These emission limits shall be determined based on the actual vehicle miles traveled on site per day, actual number of days of operation per year, and 80% control efficiency for PM, PM10 and PM2.5 from using dust suppression measures specified in this permit.

Visible Emissions – Opacity: Fugitive Particulate Emission Sources

The Permittee shall not discharge or cause to discharge into the atmosphere visible emissions from any fugitive emission source having an opacity equal to or greater than 20% opacity (based on six minute average) except for one continuous six-minute period per hour of no more than 57% opacity. This is a BACT requirement.

Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the facility and its fugitive emission sources.

Subsequent Compliance Tests: The Permittee shall conduct performance testing for visible emissions on a quarterly basis.

Reference Test Method: Method 22

Control Measures-Fugitive Particulate Emission Sources

The control measures to minimize the facility's fugitive particulate emission sources, shall include, but not be limited to, the following operating and work practices



measures. These control measures constitute BACT requirements for the fugitive particulate emissions for this facility.

Maintaining all facility paved roads and parking areas in good conditions. All other areas of the facility site shall be landscaped, to the maximum extent possible, using grass, shrubs, and trees.

Maintaining the unpaved roads from the facility to the ash landfill and the ash landfill in good conditions to the maximum extent possible.

Maintaining the outdoor biomass storage piles and limiting the speed of trucks as appropriate to minimize fugitive emissions to the maximum extent possible.

Treating the paved roadways, parking areas, exterior and interior of the buildings and other areas as necessary by sweeping, vacuuming, and /or watering at sufficient treatment frequencies to minimize the fugitive dust emissions to the maximum extent possible.

The Permittee shall perform daily inspections of each of the roadway segments and parking areas to determine the need for implementing the fugitive dust control measures. These inspections shall be performed during representative normal traffic conditions.

All delivery vehicles, including but not limited to, clean unadulterated wood and resinated wood, ash delivery vehicles shall be enclosed and covered to prevent release.

All biomass delivery vehicles shall be unloaded in enclosed storage areas (buildings), as much as possible.

All vehicles leaving the facility that are used for transporting materials likely to become airborne shall be enclosed or covered to prevent release.

All processing and blending activities of the biomass shall be done in enclosed buildings.

In order to prevent the fugitive particulates emissions from the biomass storage activities, the biomass shall be stored in enclosed buildings as much as possible.

In order to prevent the fugitive particulate emissions from the biomass unloading, storage, processing system and from the fly and bottom ash handling, storage, and disposal system, the Permittee shall (1) maintain all



enclosed buildings under negative pressure (as appropriate); and (2) operate the particulate air pollution controls at all times the respective emission sources are in operation.

The Permittee shall ensure that the doors from the biomass handling, storage, and processing buildings remain closed to the maximum extent possible using good engineering design.

The Permittee shall perform the following:

Daily checks for any visible fugitive emissions from the facility processing buildings windows, doors, and roof monitors.

Weekly inspection of all the processing buildings to ensure that:

All access doors that are capable of being closed are closed; and

As required elsewhere in the permit all conveyors shall be fully enclosed, and all fabric filters, and bin vent filters shall be operational at all times as prescribed by the manufacturers.

If visible emissions are observed as a result of any of the above-specified inspections, the Permittee shall take corrective actions as soon as possible, to minimize and eliminate the visible emissions.

Notwithstanding the fugitive particulate emissions control measures specified in this permit, the Permittee may employ additional control measures to prevent fugitive particulate emissions from becoming airborne and causing the discharge of visible emissions of fugitive particulate emissions beyond the property line.

The facility will develop and maintain a Fuel Yard Fire Prevention and Control Plan. The Plan will be maintained on site and available for review upon request.

The requirements of 6 NYCRR Part 212 are effectively met as these conditions are beyond what Part 212 would typically require.

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 1/30/2017.



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

Condition 84: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 84.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Visible emissions from Emergency Generator, Fire Pump and Natural Gas Heater combustion sources shall not exceed exhibit greater than 20% opacity (based on six minute average) except for one six-minute period per hour of no more than 27% opacity. This is a BACT requirement.

Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the emergency generator, emergency fire pump and natural gas heater.

Subsequent Compliance Tests: The Permittee shall conduct performance testing for visible emissions on an annual basis.

Reference Test Method: 40 CFR 60 App A M 9

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 1/30/2017.

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

Condition 85: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT

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Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Determination of actual GHG emissions resulting from the emergency generator, emergency fire pump and natural gas heater:

The GHG global warming potentials and the default CO₂, CH₄ and N₂O emission factors used for the calculation of the GHG emissions (as CO₂e) resulting from the emergency diesel generator, and the emergency fire pump and natural gas heater shall be equal with those contained in 40 CFR Part 98.

The heating values of the ULSD fuel oil No.2, and natural gas used for the calculations of the GHG emissions shall equal the following:

0.138 MMBtu/gallon for ULSD fuel oil No.2;
1,020 BTU/scf for natural gas;

The GHG emissions (as CO₂e) for the emergency generator, the emergency generator fire pump and natural gas heater shall be determined separately by calculations based on the:

Actual measured ULSD fuel oil No.2 and natural gas consumption rates;

CO₂, CH₄ and N₂O emission factors and fuel heating value specified in this permit;

GHG emissions (as CO₂e) shall be determined by adding the CO₂, CH₄, and N₂O emissions.

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 1/30/2017.

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

Condition 86: Compliance Certification

Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 86.1:

The Compliance Certification activity will be performed for:

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Emission Unit: G-XEMPT
Process: DFP

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The Permittee shall operate an emergency diesel fire pump that has a nameplate capacity that shall not exceed a maximum power output of 276 brake horse power (BHP).

The Permittee shall maintain documentation that would demonstrate that the emergency diesel fire pump was installed on or before 2001.

Emission Limitations:

The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the emergency fire pump:

NO_x LAER emissions limit: 8.56 lb/hr.

CO BACT emissions limit: 1.84 lb/hr.

PM (filterable fraction only) BACT emissions limit: 0.6 lb/hr.

PM₁₀ (filterable + condensable fraction) BACT emissions limit: 0.6 lb/hr

PM_{2.5} (filterable + condensable fraction) BACT emissions limit: 0.6 lb/hr

GHG BACT (expressed as CO₂e) emissions limit shall include combined emissions of CO₂, CH₄, and N₂O, and shall not exceed 72 tons per year (based on 12-month rolling total).

Compliance with the LAER and BACT requirements shall be demonstrated by implementing the following operating limitations and work practices:

The maximum operating hours for the fire pump shall be limited to 500 hours per 12-month rolling total, as determined at the end of each calendar month. The annual permitted hours shall include testing, maintenance and emergency hours, combined.

The Permittee shall install and maintain an non-resettable

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operating hour meter as required elsewhere in this permit.

The emergency fire pump shall combust only ultra low sulfur distillate (ULSD) fuel oil No.2 as required by regulation.

The emergency fire pump shall comply with the applicable provisions of 40 CFR 63 Subpart ZZZZ.

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 1/30/2017.

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

Condition 87: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 87.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT

Process: EGN

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following provides a description and compliance requirements for the emergency diesel generator. Compliance demonstration will be made available for review upon request:

Emergency Generator

The Permittee shall operate an emergency diesel generator that has a nameplate capacity that shall not exceed a maximum power output of 375 brake horse power (BHP).

The Permittee shall maintain documentation that would demonstrate that the emergency generator was installed on or before 1991.

Emission Limitations:

The Permittee shall not discharge or cause to discharge

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emissions into the atmosphere in excess of the following emission limits for the emergency generator:

NO_x LAER emissions limit: 11.64 lb/hr.

CO BACT emissions limit: 2.54 lb/hr.

PM (filterable fraction only) BACT emissions limit: 0.84 lb/hr.

PM₁₀ (filterable + condensable fraction) BACT emissions limit: 0.84 lb/hr

PM_{2.5} (filterable + condensable fraction) BACT emissions limit: 0.84 lb/hr

GHG BACT (expressed as CO₂e) emissions limit shall include combined emissions of CO₂, CH₄, and N₂O, and shall not exceed 97 tons per year (based on 12-month rolling total).

Compliance with the LAER and BACT requirements shall be demonstrated by implementing the following operating limitations and work practices:

The maximum operating hours for the emergency generator shall be limited to 500 hours per 12-month rolling total, as determined at the end of each calendar month. The annual permitted hours shall include testing, maintenance and emergency hours, combined.

The Permittee shall install and maintain a non-resettable operating hour meter as required elsewhere in this permit.

The emergency generator shall only combust ultra low sulfur distillate (ULSD) fuel oil No.2 as required by regulation.

The emergency generator shall comply with the applicable provisions of 40 CFR 63 Subpart ZZZZ.

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 1/30/2017.

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

Condition 88: Compliance Certification
Effective between the dates of 09/07/2016 and 09/06/2021



Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT

Process: NGH

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Natural Gas Heater

The Permittee shall install and operate a natural gas heater that has a nameplate that shall not exceed 5 MMBtu/hr. This natural gas heater shall combust only pipeline quality natural gas. The hours of operation for the natural gas heater are not limited (i.e., unrestricted at 8,760 hr/yr).

Emission Limitations

The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the natural gas heater:

NO_x LAER emissions limit: 0.12 lb/MMBtu

CO BACT emissions limit: 0.082 lb/MMBtu

PM (filterable fraction only) BACT emissions limit: 0.008 lb/MMBtu.

PM₁₀ (filterable + condensable fraction) BACT emissions limit: 0.008 lb/MMBtu

PM_{2.5} (filterable + condensable fraction) BACT emissions limit: 0.008 lb/MMBtu

GHG BACT (expressed as CO₂e) emissions limit shall include combined emissions of CO₂, CH₄, and N₂O, and shall not exceed 117 tons per year (based on 12-month rolling total).

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 1/30/2017.

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





STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

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



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

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

Condition 89: Contaminant List
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable State Requirement:ECL 19-0301

Item 89.1:

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

CAS No: 000124-38-9
Name: CARBON DIOXIDE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

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

CAS No: 007664-41-7
Name: AMMONIA

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

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

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

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

CAS No: 0NY750-00-0
Name: CARBON DIOXIDE EQUIVALENTS

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

Condition 90: Malfunctions and start-up/shutdown activities
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable State Requirement:6 NYCRR 201-1.4

Item 90.1:

(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 24: Air pollution prohibited
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable State Requirement:6 NYCRR 211.1

Item 24.1:

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 91: Compliance Demonstration
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable State Requirement:6 NYCRR 242-1.4 (b)

Item 91.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 91.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) Applicability. Notwithstanding Subdivision (a) of this Section, any unit that, on or before December 1, 2008, applies for an enforceable permit condition restricting the supply of the unit's annual electrical output to the electric grid to less than or equal to 10 percent of the annual gross generation of the unit, and that from and after January 1, 2009 complies with the 10 percent restriction and the provisions in Paragraph (b)(3) of this Section, shall be exempt from the requirements of this Part, except for the provisions of this Section, Sections 242-1.2, 242-1.3, and 242-1.6 of this Part.

(2) Effective date. The exemption under Paragraph (b)(1) of this Section shall become effective as of January 1, 2009 and remain in effect unless and until the unit loses its exemption under Subparagraph (b)(3)(v) of this Section.

(3) Compliance.

(i) A unit exempt under Paragraph (b)(1) of this Section shall comply with the restriction on percentage of annual



gross generation that may be supplied to the electric grid described in Paragraph (b)(1) of this Section.

(ii) A unit exempt under Paragraph (b)(1) of this Section shall report to the department the amount of annual gross generation and the amount of annual gross generation supplied to the electric grid during the year by the following February 1st.

(iii) For a period of 10 years from the date the records are created, the owners and operators of a unit exempt under Paragraph (b)(1) of this Section shall retain, at the source that includes the unit, records demonstrating that the conditions of the permit under Paragraph (b)(1) of this Section were met. The 10-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the department. The owners and operators bear the burden of proof that the unit met the restriction on the percentage of annual gross generation that may be supplied to the electric grid.

(iv) The owners and operators and, to the extent applicable, the CO₂ authorized account representative of a unit exempt under Paragraph (b)(1) of this Section shall comply with all the requirements of this Part concerning all time periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.

(v) On the earlier of the following dates, a unit exempt under Paragraph (b)(1) of this Section shall lose its exemption:

(a) the date on which the restriction on the percentage of annual gross generation that may be supplied to the electric grid described in Paragraph (b)(1) of this Section is removed from the unit's permit or otherwise becomes no longer applicable in any year that commences on or after January 1, 2009; or

(b) the first date on which the unit fails to comply, or on which the owners and operators fail to meet their burden of proving that the unit is complying, with the restriction on the percentage of annual gross generation that may be supplied to the electric grid described in Paragraph (b)(1) of this Section during any year that commences on or after January 1, 2009.

(vi) A unit that loses its exemption in accordance with Subparagraph (b)(3)(v) of this Section shall be subject to the requirements of this Part. For the purpose of applying



permitting requirements under Subpart 242-3 of this Part, allocating allowances under Subpart 242-5 of this Part, and applying monitoring requirements under Subpart 242-8 of this Part, the unit shall be treated as commencing operation on the date the unit loses its exemption.

(4) Reduction in CO2 Budget Trading Program base budget. In the event that a unit applies for and receives a permit condition that renders the unit exempt under Subdivision (b) of this Section, then the department shall reduce the CO2 Budget Trading Program base budget to remove the number of tons equal to the unit's average annual emissions from the previous three calendar years.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

**Condition 92: CO2 Budget Trading Program - Excess emission requirements
Effective between the dates of 09/07/2016 and 09/06/2021**

Applicable State Requirement:6 NYCRR 242-1.5

Item 92.1:

The owners and operators of a CO2 budget source that has excess emissions in any control period shall:

- (1) forfeit the CO2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO2 offset allowances may not be used to cover any part of such excess emissions; and
- (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).

**Condition 93: Compliance Demonstration
Effective between the dates of 09/07/2016 and 09/06/2021**

Applicable State Requirement:6 NYCRR 242-1.5

Item 93.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 93.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators and, to the extent applicable, the CO2 authorized account representative of each CO2 budget source and each CO2 budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO2



requirements:

- (1) The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall hold CO2 allowances available for compliance deductions under Section 242-6.5, as of the CO2 allowance transfer deadline, in the source's compliance account in an amount not less than the total CO2 emissions for the control period from all CO2 budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.
- (2) Each ton of CO2 emitted in excess of the CO2 budget emissions limitation shall constitute a separate violation of this Part and applicable state law.
- (3) A CO2 budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.
- (4) CO2 allowances shall be held in, deducted from, or transferred among CO2 Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.
- (5) A CO2 allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO2 allowance was allocated. A CO2 offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).
- (6) A CO2 allowance under the CO2 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO2 in accordance with the CO2 Budget Trading Program. No provision of the CO2 Budget Trading Program, the CO2 budget permit application, or the CO2 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.
- (7) A CO2 allowance under the CO2 Budget Trading Program does not constitute a property right.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

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The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 94: Compliance Demonstration
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable State Requirement:6 NYCRR 242-1.5

Item 94.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 94.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO2 Budget Trading Program.

(iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.

The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 Budget Trading Program, including those under Subpart 242-4.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 95: Compliance Demonstration
Effective between the dates of 09/07/2016 and 09/06/2021

Applicable State Requirement:6 NYCRR Subpart 242-4

Item 95.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 95.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Annual Compliance Certification Report:

(a) For each control period in which a CO2 budget source is subject to the CO2 requirements of subdivision 242-1.5(c) of this Part, CO2 authorized account representative of the source shall submit to the department by March 1st following the relevant control period, a compliance certification report. The control period is a three-calendar-year time period.

(b) The compliance certification report shall include the following elements:

(1) identification of the source and each CO2 budget unit at the source;

(2) as an option, the serial numbers of the CO2 allowances that are to be deducted from the source's compliance account under section 242-6.5 of this Part for the control period, including the serial numbers of any CO2 offset allowances that are to be deducted subject to the limitations of section 242-6.5(a)(3) of this Part; and

(3) the compliance certification under subdivision (c) of this section (below).

(c) In the compliance certification report the CO2 authorized account representative shall certify, based on

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reasonable inquiry of those persons with primary responsibility for operating the source and the CO2 budget units at the source in compliance with the CO2 Budget Trading Program, whether the source and each CO2 budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO2 Budget Trading Program, including:

(1) whether the source was operated in compliance with the CO2 requirements of section 242-1.5(c) of this Part;

(2) whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO2 emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO2 emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;

(4) whether the facts that form the basis for certification under Subpart 242-8 of each monitor at each unit at the source, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 242-8 of this Part, if any, have changed; and

(5) if a change is required to be reported under paragraph (c)(4) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 96: Compliance Demonstration
Effective between the dates of 09/07/2016 and 09/06/2021



Applicable State Requirement:6 NYCRR 242-8.5

Item 96.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 96.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

(a) General provisions. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

(c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows:

(1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

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(3) The CO2 authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications;

(ii) for a unit with add-on CO2 emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO2 emissions; and

(iii) the CO2 concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO2 emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

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

Condition 1-4: Compliance Demonstration
Effective between the dates of 04/25/2019 and 09/06/2021

Applicable State Requirement:6 NYCRR 201-5.4

Item 1-4.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: G-00004

Process: P65

Regulated Contaminant(s):

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

Item 1-4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

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Greenidge is limited to 242.3 pounds of NO_x per startup/shutdown event. The 05/31/2018 NO_x Emissions Startup and shutdown Plan while firing 100% natural gas (process P65) has been approved. Startup is defined as the period beginning with the initial firing of Unit G-00004 on natural gas and ending at the time when the Unit has achieved minimum generating load and the required air pollution control equipment is operational. Shutdown is defined as any planned cessation of electricity generation while firing natural gas only.

1. The duration of each startup and each shutdown event shall not exceed 12 hours.
2. During startup and shutdown, the Permittee shall:
 - a. Minimize the emissions by: 1) operating and maintaining Boiler # 6 and associated air pollution control equipment in accordance with good combustion and air pollution control practices, safe operating practices, and protection of the facility; and 2) implementation of operations and maintenance practices comprised of maintaining a high level of operation time.
 - b. Operate continuous emission monitoring system (CEMS), continuous opacity monitoring system, and other continuous monitoring systems and devices required by this permit.
 - c. Unless otherwise specified in this permit, comply with all emissions and opacity limits applicable during normal operation.
3. The Facility shall record:
 - a. The time, date, and duration in hours and minutes;
 - b. The heat input rate (MMBtu/hr) of Boiler # 6 that shall be determined based on the actual natural gas consumption and the fuel's heating value (MMBtu/scf) of 1,020E-06 MMBtu/scf.

Additionally, the minimum operating load will be 32 Megawatts.

Manufacturer Name/Model Number: Continuous Emission Monitor
Upper Permit Limit: 242.3 pounds per event
Reference Test Method: 40 CFR 60 App A
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD - SEE MONITORING

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Permit ID: 8-5736-00004/00017

Facility DEC ID: 8573600004



DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2019.

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

Condition 1-5: Compliance Demonstration
Effective between the dates of 04/25/2019 and 09/06/2021

Applicable State Requirement:6 NYCRR 201-5.4

Item 1-5.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: G-00004

Process: P75

Regulated Contaminant(s):

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

Item 1-5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx Emissions from Startup (SU) and shutdown (SD) events shall be limited to 804.24 pounds per SU or SD event until such time that fifteen startups and fifteen shutdowns of Emission Unit G-00004 have occurred. Startup (SU) is defined as the period beginning with the initial firing of Unit G-00004 and ending at the time when the Unit has achieved minimum generating load and the required air pollution control equipment is operational. Shutdown (SD) is defined as any planned cessation of electricity generation.

The SU/SD Plan shall include the following minimum information:

1. The duration of each startup and each shutdown event shall not exceed 12 hours.
2. During startup and shutdown, the Permittee shall:
 - a. Minimize the emissions by: 1) operating and maintaining Boiler # 6 and associated air pollution control equipment in accordance with good combustion and air pollution control practices, safe operating practices, and protection of the facility; and 2) implementation of operations and maintenance practices comprised of maintaining a high level of operation time.

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b. Operate continuous emission monitoring system (CEMS), continuous opacity monitoring system, and other continuous monitoring systems and devices required by this permit.

c. Unless otherwise specified in this permit, comply with all emissions and opacity limits applicable during normal operation.

3. The Facility shall record:

a. The time, date, and duration in hours and minutes;

b. The heat input rate (MMBtu/hr) of Boiler # 6 that shall be determined based on the actual natural gas consumption and the fuel's heating value (MMBtu/scf) of 1,020E-06 MMBtu/scf.

Within 30 days of completing the required number of SU and SD events Greenidge shall submit to the Department a revised SU/SD Plan that includes a revised NO_x emission limit in pounds per event during startup and shutdown along with a table that summarizes the NO_x emission data from each event and the minimum generating load recorded.

The SU/SD Plan will establish the facility's long-term minimum electrical generation in Megawatts (MW). Until such time that the Revised SU/SD Plan has been developed and submitted to the Department for review and approval, the minimum generating load will be set at 30 MW (330 MMBtu/hr). The SU/SD NO_x emission limit will be revised only if the supporting data indicates that a higher limit is needed. In no event will the revised SU/SD per event limit exceed 1,072.3 lb/event.

Manufacturer Name/Model Number: Continuous Emission Monitor

Upper Permit Limit: 804.24 pounds per event

Reference Test Method: 40 CFR 60 App A

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 7/30/2019.

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