Permit ID: 8-5736-00004/00017 **Facility DEC ID: 8573600004**

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

Permit Effective Date: Permit Expiration Date:

PAGE LOCATION OF CONDITIONS

PAGE

FEDERALLY ENFORCEABLE CONDITIONS
Facility Level

8 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
8 2 6 NYCRR 201-6.4 (a) (7): Fees
8 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
9 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
9 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
11 6 6 NYCRR 201-6.4 (e): Compliance Certification
13 7 6 NYCRR 202-2.1: Compliance Certification
13 8 6 NYCRR 202-2.5: Recordkeeping requirements
13 9 6 NYCRR 215.2: Open Fires - Prohibitions
15 10 6 NYCRR 200.7: Maintenance of Equipment
15 11 6 NYCRR 201-1.7: Recycling and Salvage
15 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
15 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
16 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
16 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
16 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
17 17 6 NYCRR 202-1.1: Required Emissions Tests
17 18 40 CFR Part 68: Accidental release provisions.
17 19 40CFR 82, Subpart F: Recycling and Emissions Reduction
18 20 6 NYCRR Subpart 201-6: Emission Unit Definition
19 21 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
19 22 6 NYCRR 201-6.4 (f): Operational Flexibility
19 23 6 NYCRR Subpart 201-7: Facility Permissible Emissions
20 24 6 NYCRR 211.2: Visible Emissions Limited
20 25 6 NYCRR 225-1.2 (d): Compliance Certification
21 26 6 NYCRR 225-1.5 (c): Compliance Certification
21 27 6 NYCRR 231-5.5: Compliance Certification
22 28 6 NYCRR 231-7.5: Compliance Certification
22 29 6 NYCRR 231-7.5: Compliance Certification
23 30 6 NYCRR 231-7.5: Compliance Certification
24 31 40CFR 63, Subpart A: General Provisions
24 32 40CFR 63, Subpart ZZZZ: Compliance Certification
28 33 40CFR 97.1006, Subpart GGGGG: Compliance Certification
29 34 40 CFR Part 98: Mandatory greenhouse gas reporting

Emission Unit Level

29 35 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
31 36 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=G-00004

34 *37 6 NYCRR Subpart 201-7: Capping Monitoring Condition
36 *38 6 NYCRR Subpart 201-7: Capping Monitoring Condition
37 39 6 NYCRR 231-5.4: Compliance Certification
38 40 6 NYCRR 231-7.5: Compliance Certification
38 41 6 NYCRR 231-7.5: Compliance Certification

39 42 6 NYCRR 231-7.5: Compliance Certification
40 43 6 NYCRR 231-7.5: Compliance Certification
40 44 6 NYCRR 231-7.5: Compliance Certification
41 45 6 NYCRR 231-7.6: Compliance Certification
42 46 6 NYCRR 231-7.6: Compliance Certification
42 47 40CFR 63, Subpart DDDDD: Compliance Certification
43 48 40CFR 72.6(a)(1), Subpart A: Compliance Certification
44 49 40CFR 75.10(a), Subpart B: Compliance Certification
45 50 40CFR 75.10(b), Subpart B: Compliance Certification
45 51 40CFR 75.10(c), Subpart B: Compliance Certification
46 52 40CFR 75.10(d), Subpart B: Compliance Certification
48 53 40CFR 75.13(a), Subpart B: Compliance Certification
48 54 40CFR 75.20, Subpart C: Compliance Certification
49 55 40CFR 75.64(a), Subpart G: Compliance Certification
50 56 40CFR 97.406, Subpart AAAAA: Compliance Certification
51 57 40CFR 97.606, Subpart CCCCC: Compliance Certification

EU=G-00004,Proc=P65
52 58 6 NYCRR Subpart 201-6: Compliance Certification
53 59 6 NYCRR 231-5.4: Compliance Certification
54 60 6 NYCRR 231-7.5: Compliance Certification
54 61 6 NYCRR 231-7.5: Compliance Certification
55 62 6 NYCRR 231-7.5: Compliance Certification
56 63 6 NYCRR 231-7.6: Compliance Certification

EU=G-00004,Proc=P75
57 64 6 NYCRR Subpart 201-6: Compliance Certification
58 *65 6 NYCRR Subpart 201-7: Capping Monitoring Condition
59 66 6 NYCRR 231-5.4: Compliance Certification
60 67 6 NYCRR 231-5.4: Compliance Certification
61 68 6 NYCRR 231-7.5: Compliance Certification
62 69 6 NYCRR 231-7.5: Compliance Certification
63 70 6 NYCRR 231-7.5: Compliance Certification
64 71 6 NYCRR 231-7.6: Compliance Certification
65 72 6 NYCRR 231-7.6: Compliance Certification
66 73 6 NYCRR 231-7.6: Compliance Certification
67 74 6 NYCRR 231-7.6: Compliance Certification

EU=G-00004,EP=00004,Proc=P65
68 75 6 NYCRR 227-1.4 (a): Compliance Certification

EU=G-00004,EP=00004,Proc=P75
69 76 6 NYCRR 227-1.4 (a): Compliance Certification

EU=G-00005
69 77 6 NYCRR Subpart 201-6: Compliance Certification
72 78 6 NYCRR 212-1.6 (a): Compliance Certification
72 79 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-FABAH
74 80 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-FUGTV

78 81 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-XEMPT

81 82 6 NYCRR Subpart 231-7: Compliance Certification

82 83 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-XEMPT,Proc=EGN

82 84 6 NYCRR Subpart 231-7: Compliance Certification

EU=G-XEMPT,Proc=NGH

84 85 6 NYCRR Subpart 231-7: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

87 86 ECL 19-0301: Contaminant List

88 87 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities

88 88 6 NYCRR 211.1: Air pollution prohibited

89 89 6 NYCRR 242-1.4 (b): Compliance Demonstration

90 90 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements

91 91 6 NYCRR 242-1.5: Compliance Demonstration

92 92 6 NYCRR 242-1.5: Compliance Demonstration

93 93 6 NYCRR Subpart 242-4: Compliance Demonstration

94 94 6 NYCRR 242-8.5: Compliance Demonstration

Emission Unit Level

EU=G-00004,Proc=P65

96 95 6 NYCRR 201-5.4: Compliance Demonstration

EU=G-00004,Proc=P75

97 96 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 for entire length of Permit

Applicable Federal Requirement:6 NYCRR 200.6

Item 1.1:
Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: **Fees**
Effective for entire length of Permit

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

Item 2.1:
The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: **Recordkeeping and Reporting of Compliance Monitoring**
Effective for entire length of Permit

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

Item 3.1:
The following information must be included in any required compliance monitoring records and reports:

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

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

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

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

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

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

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

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective for entire length of Permit

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

Item 4.1:
Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 5: Compliance Certification
Effective for entire length of Permit

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

Condition 6: Compliance Certification
Effective for entire length of Permit

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 – Air Compliance Branch
USEPA Region 2 DECA/ACB
290 Broadway, 21st Floor
New York, NY 10007

The address for the RAPCE is as follows:

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

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-2.1

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

Item 7.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

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

Condition 8: Recordkeeping requirements
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-2.5

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

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

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

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

Condition 9: Open Fires - Prohibitions
Effective for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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: Required Emissions Tests
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 17.1:
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 18: Accidental release provisions.
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 68

Item 18.1:
If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

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

b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:

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

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

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

Condition 19: Recycling and Emissions Reduction
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 82, Subpart F

Item 19.1:
The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

Condition 20: Emission Unit Definition
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 20.1:
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: G-00004
Emission Unit Description:
Combustion Engineering boiler, rated at 1,117 MMBtu/hr maximum heat input, which is identified as boiler #6. The boiler predominantly fires up to 100% natural gas, but may also fire natural gas with clean unadulterated wood and/or kiln dried wood (including resinated wood) up to 19% on a heat rate basis. The boiler is equipped with advanced low NOx burners, closed-coupled and staged over-fire air, SNCR, and SCR to control NOx emissions, and a baghouse to control particulate emissions.

Building(s): BOILER

Item 20.2:
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 20.3:
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 20.4:
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 20.5:
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 20.6:
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 and the Natural Gas Heater and their associated emission points.
There are two processes associated with this emission unit:

Process EGN: Emergency Generator
Process NGH: Natural Gas Heater

Condition 21: Progress Reports Due Semiannually
Effective for entire length of Permit

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

Item 21.1:
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 22: Operational Flexibility
Effective for entire length of Permit

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

Item 22.1:
A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

Condition 23: Facility Permissible Emissions
Effective for entire length of Permit

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:

CAS No: 007446-09-5 PTE: 78,000 pounds per year
Name: SULFUR DIOXIDE

CAS No: 0NY998-00-0 PTE: 98,000 pounds per year
Name: VOC

Condition 24: Visible Emissions Limited
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 211.2

Item 24.1:
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 for entire length of Permit

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

Item 25.1:
The Compliance Certification activity will be performed for the Facility.

Item 25.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 26: Compliance Certification
Effective for entire length of Permit

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:

The owner or operator must make daily measurements of the rate of each fuel fired at the facility. The owner or operator must also measure the gross heat content and ash content of each fuel fired at least once each week if this information is not provided in the vendor fuel certification receipts. Owners or operators of stationary combustion installations producing electricity for sale must measure the average electrical output and the hourly generation rate of the facility. These records must be maintained on site or at a Department approved alternative location for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 27: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.5

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

Condition 28: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 28.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 28.2:
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 Boiler #6, emergency diesel generator, 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 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.
Subsequent reports are due every 6 calendar month(s).

Condition 29: Compliance Certification
Effective for entire length of Permit

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: 0NY210-00-0 OXIDES OF NITROGEN

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

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 153.8 tons per year
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.
Subsequent reports are due every 6 calendar month(s).

Condition 30: Compliance Certification
Effective for entire length of Permit

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: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

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

Condition 31: General Provisions
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 63, Subpart A

Item 31.1:
This emission source is subject to the applicable provisions of 40 CFR 63 Subpart A. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 32: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 32.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: G-XEMPT
Process: EGN

Item 32.2:
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.

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:

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 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 existing engine: 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 engine 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 CFR63.6660 (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.
Subsequent reports are due every 6 calendar month(s).

Condition 33: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 97.1006, Subpart GGGGG

Item 33.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 33.2:
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 §§97.1013 through 97.1018 of Subpart GGGGG. The facility shall notify the Department of this representative (and alternate) with contact information upon issuance of this permit and when any changes are made to the representative (or alternate) or their contact information.

(2) The facility, and the designated representative, of each CSAPR NOx Ozone Season Group 3 source (facility) and each CSAPR NOx Ozone Season Group unit at the facility must comply with the monitoring, reporting, and recordkeeping requirements of §§97.1030 through 97.1035 of Subpart GGGGG 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 to be submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are to be 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 CSAPR NOx Ozone Season allowances and to determine compliance with the CSAPR NOx 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 CSAPR NOx Ozone Season facility and each CSAPR NOx Ozone Season Unit at the facility shall hold, in the facilities compliance account, CSAPR NOx Ozone Season allowances available for deduction for such control period under §97.1024(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Ozone Season Group 3 units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 34: Mandatory greenhouse gas reporting
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 98

Item 34.1:
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 35: Emission Point Definition By Emission Unit
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 35.1:
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 35.2:
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 35.3:
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

Item 35.4:
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 35.5:
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: 00023
Height (ft.): 15 Diameter (in.): 20
NYTMN (km.): 4727.025 NYTME (km.): 340.346

Condition 36: Process Definition By Emission Unit
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 36.1:
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 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. 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: 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 36.2:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: G-00004
Process: P75 Source Classification Code: 1-01-009-01

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

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 36.3:
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 36.4:
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 36.5:
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 36.6:
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

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 36.7:

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 36.8:
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

Item 36.9:
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 37: Capping Monitoring Condition
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 37.1:
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 37.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 37.3:
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 37.4:

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 37.5:
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 37.6:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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

Item 37.7:
Compliance Certification shall include the following monitoring:

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

To avoid applicability of Non Attainment regulations, the Permittee will limit VOC emissions (including formaldehyde) to below the applicability threshold of 50 tpy, calculated on a 12-month rolling total.

To demonstrate that the actual VOC emissions (including formaldehyde emissions) would not exceed the NSR applicability threshold, the Permittee shall calculate VOC emissions monthly from all sources with a potential to emit greater than 1 ton per year. Boiler emissions, Unit G-00004, will be calculated using continuous flow meter data and emission rates from the most recent approved performance test.

VOC emissions from any other sources at the facility with the potential to emit less than 1 ton per year VOC, including exempt sources, will be calculated triennially and the average monthly emissions will be added to the monthly totals.

Manufacturer Name/Model Number: flow monitor
Parameter Monitored: FLOW RATE
Upper Permit Limit: 49 tons per year
Reference Test Method: 40 CFR 60 app 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.
Subsequent reports are due every 6 calendar month(s).

Condition 38: Capping Monitoring Condition
Effective for entire length of Permit

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 231-7

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

Item 38.7:
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)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 39.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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

Item 39.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
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.
Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

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

Emission Unit: G-00004

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

Item 40.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
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.

Ongoing compliance with the PM-10 emission limitation will be through the use of a continuous flow meter. Stack flow will be used as a surrogate to PM-10 emissions as measured during the most recent approved emissions test. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9 test.

PM-10 emissions will be calculated monthly.

Manufacturer Name/Model Number: flow monitor
Parameter Monitored: FLOW RATE
Upper Permit Limit: 151.7 tons per year
Reference Test Method: 40 CFR 60 App F
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 41: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 41.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):
CAS No: 0NY075-02-5 PM 2.5

Item 41.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
PM-2.5 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.

Ongoing compliance with the PM-2.5 emission limitation will be through the use of a continuous flow meter. Stack flow will be used as a surrogate to PM-2.5 emissions as measured during the most recent approved emissions test. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9 test.

PM-2.5 emissions will be calculated monthly.

Manufacturer Name/Model Number: flow monitor
Parameter Monitored: FLOW RATE
Upper Permit Limit: 151.7 tons per year
Reference Test Method: 40 CFR 60 App 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.
Subsequent reports are due every 6 calendar month(s).

Condition 42: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

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

Emission Unit: G-00004

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

Item 42.2:
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)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 43.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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

Item 43.2:
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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 44: Compliance Certification
Effective for entire length of Permit

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: 000124-38-9 CARBON DIOXIDE

Item 44.2:
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.
Subsequent reports are due every 6 calendar month(s).

Condition 45: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 45.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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

Item 45.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
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.

Ongoing compliance with the PM emission limitation will be through the use of a continuous flow meter. Stack flow will be used as a surrogate to PM-2.5 emissions as measured during the most recent approved emissions test. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9

test.

PM emissions will be calculated monthly.

Manufacturer Name/Model Number: flow monitor
Parameter Monitored: FLOW RATE
Upper Permit Limit: 48.9 tons per year
Reference Test Method: 40 CFR 60 App 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.
Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

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

Emission Unit: G-00004

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

Item 46.2:
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.
Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 63, Subpart DDDDD

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

Emission Unit: G-00004

Item 47.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
Pursuant to 40 CFR 63.7491(a), a natural gas-fired EGU as defined in 40 CFR Subpart UUUUU which fires at least 85% natural gas on an annual heat input basis is exempt from 40 CFR 63 Subpart DDDDD. The facility shall maintain records which demonstrate that Unit G-00004 fires at least 85% natural gas on an annual heat input basis to document its status as a natural gas only unit.

Process Material: FUEL CONSUMPTION
Parameter Monitored: HEAT INPUT
Lower Permit Limit: 85 percent
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 48: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 72.6(a)(1), Subpart A

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

Emission Unit: G-00004

Item 48.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
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.
Subsequent reports are due every 6 calendar month(s).

Condition 49: Compliance Certification
Effective for entire length of Permit

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

Item 49.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 49.2:
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, NOx, 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 NOx CEMS (consisting of a NOx pollutant concentration monitor and an O2 or CO2 diluent gas monitor) with the automated data acquisition and handling system for measuring and recording NOx concentration (in ppm), O2 or CO2 concentration (in percent O2 or CO2) and NOx emission rate (in lb/MMBtu) discharged to the atmosphere. The owner or operator shall account for total NOx 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.
Subsequent reports are due every 6 calendar month(s).

Condition 50: Compliance Certification
Effective for entire length of Permit

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

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

Emission Unit: G-00004

Item 50.2:
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 NOx emissions in the appropriate units of measurement (i.e., lb/hr for SO2 and lb/mmBtu for NOx).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 51: Compliance Certification
Effective for entire length of Permit

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

Item 51.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 51.2:
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., 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.
Subsequent reports are due every 6 calendar month(s).

Condition 52: Compliance Certification
Effective for entire length of Permit

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

Item 52.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Item 52.2:
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), NOx concentration, NOx 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 NOx 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 NOx 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 (NOx 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 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.
Subsequent reports are due every 6 calendar month(s).

Condition 53: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 75.13(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 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.
Subsequent reports are due every 6 calendar month(s).

Condition 54: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 75.20, Subpart C

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:

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, NOx emission rate, NOx 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.
Subsequent reports are due every 6 calendar month(s).

Condition 55: Compliance Certification
Effective for entire length of Permit

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

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 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 NOx 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) fro 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 NOx emission rate (pounds per million BTU, rounded to the nearest hundredth) during the quarter and cumulative NOx 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.
Subsequent reports are due every 6 calendar month(s).

Condition 56: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA

Item 56.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

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

Item 56.2:
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 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 57: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 97.606, Subpart CCCCC

Item 57.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 57.2:
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 58: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 58.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P65

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

Item 58.2:
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 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.
Subsequent reports are due every 6 calendar month(s).

Condition 59: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 59.1:
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 59.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
NOx 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 NOx CEMS. 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: 0.0365 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.
Subsequent reports are due every 6 calendar month(s).

Condition 60: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 60.1:
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 60.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
While firing natural gas only emissions of PM-2.5 from Unit G-00004 must not exceed 0.00825 lb/MMBtu. Annual stack test results from 2017-2021 demonstrate that the Facility is in compliance with the PM-2.5 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run). An updated emissions test will be completed upon request.

Ongoing compliance with the PM-2.5 emission limitation will be demonstrated through the use of a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to PM-2.5 emissions as measured during the most recent approved emissions test.

Upper Permit Limit: 0.00825 pounds per million Btus
Reference Test Method: Method 201A/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.
Subsequent reports are due every 6 calendar month(s).

Condition 61: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 61.1:
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 61.2:
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. Annual stack test results from 2017-2021 demonstrate that the Facility is in compliance with the PM-10 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run). An updated emissions test will be completed upon request.

Ongoing compliance with the PM-10 emission limitation will be demonstrated through the use of a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to PM-10 emissions as measured during the most recent approved emissions test.

Upper Permit Limit: 0.00825 pounds per million Btus
Reference Test Method: Method 201A
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.
Subsequent reports are due every 6 calendar month(s).

Condition 62: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 62.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P65

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

Item 62.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
While firing natural gas only emissions of PM from Unit G-00004 must

not exceed 0.002 lb/MMBtu. Annual stack test results from 2017-2021 demonstrate that the Facility is in compliance with the PM emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run). An updated emissions test will be completed once during the term of the permit.

Ongoing compliance with the PM emission limitation will be demonstrated through the use of a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to PM emissions as measured during the most recent approved emissions test.

Upper Permit Limit: 0.002 pounds per million Btus
Reference Test Method: Method 5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 63: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 63.1:
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 63.2:
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 NOx LAER, therefore, 100 ppm or 0.075 lb CO/MMBtu is BACT while complying with NOx 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.
Subsequent reports are due every 6 calendar month(s).

Condition 64: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 64.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

Item 64.2:
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.
Subsequent reports are due every 6 calendar month(s).

Condition 65: Capping Monitoring Condition
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 65.1:
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 65.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 65.3:
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 65.4:
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 65.5:
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 65.6:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

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

Item 65.7:
Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
The Permittee shall conduct performance testing while operating Process P75, firing natural gas and up to 19% biomass, on an annual basis. Annual testing is only required in any year in which process P75 was operational for any part of at least 30 calendar days in a year.

VOC emissions, including formaldehyde, will be determined using Method 25A and 316 or other testing methodology approved by the Department.

Upper Permit Limit: 49 tons per year
Reference Test Method: Method 25A, Method 316
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 66: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 66.1:
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 66.2:
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.
Subsequent reports are due every 6 calendar month(s).

Condition 67: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 67.1:
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 67.2:
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 NOx 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 NOx limit, the NYSDEC may adjust this NOx 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 NOx 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 NOx 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 NOx 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 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: 0.058 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.
Subsequent reports are due every 6 calendar month(s).

Condition 68: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 68.1:
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 68.2:
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 PM2.5 emission limits cannot exceed 0.0419 lb/MMBtu. The new 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.
Subsequent reports are due every 6 calendar month(s).

Condition 69: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 69.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

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

Item 69.2:
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 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.
Subsequent reports are due every 6 calendar month(s).

Condition 70: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 70.1:
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 70.2:
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 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 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 the 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 PM-10 emission limits cannot exceed 0.0419 lb/MMBTU. The new 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-10 limits 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-10 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-10 emissions from Unit G-00004 will be conducted 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: ANNUALLY
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 71: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 71.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

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

Item 71.2:
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 an 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
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 72: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: G-00004
Process: P75

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

Item 72.2:
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)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 73: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 73.1:
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 73.2:
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.

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

Condition 74: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 74.1:
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 74.2:
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.
Subsequent reports are due every 6 calendar month(s).

Condition 75: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 227-1.4 (a)

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

Emission Unit: G-00004 Emission Point: 00004
Process: P65

Item 75.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
No owner or operator of a stationary combustion installation subject to this Subpart shall operate an emission source which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The owner or operator will conduct a Method 9 test annually. A report of the results of the test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee must be maintained at the facility

or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: 40 CFR 60, Appendix A, Method 9
Monitoring Frequency: ANNUALLY
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 227-1.4 (a)

Item 76.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00004 Emission Point: 00004
Process: P75

Item 76.2:
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) and maintain a record of all measurements made by the COM and the hours of COM downtime. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 77: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 77.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00005

Item 77.2:
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 (¼" 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 (¼" 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 ¼" minus material at a combined maximum rate of 3,000 ft3/hr.

All material which passes the ¼" 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 boiler startup fuel to natural gas only. Biomass would not be introduced until the air pollution control train is at operating temperature, ammonia is being injected, and all emission limitations are in compliance. Only then would biomass firing be added gradually through the installed injection ports. Greenidge will have the ability to control the addition of biomass at a rate and amount as-necessary to maintain compliance with all of its federally enforceable emission limitations. Similarly, in a planned outage, biomass firing will be suspended prior to transitioning to zero load on natural gas.

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

The requirements of 6 NYCRR Part 212 are effectively met as these conditons 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.
Subsequent reports are due every 6 calendar month(s).

Condition 78: Compliance Certification

Effective for entire length of Permit

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

Item 78.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-00005

Item 78.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
No facility owner or operator shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water. Monitoring shall consist of daily observation of equipment operation. Any observed visible emissions will be immediately investigated and corrected and documented in semiannual reporting.

Parameter Monitored: OPACITY
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.
Subsequent reports are due every 6 calendar month(s).

Condition 79: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

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

Condition 80: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 80.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-FABAH

Item 80.2:
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:

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

Condition 81: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

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

Emission Unit: G-FUGTV

Item 81.2:
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.

Maintaing 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 unadultered 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 ro 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 conditons 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.
Subsequent reports are due every 6 calendar month(s).

Condition 82: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 82.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT

Item 82.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Visible emissions from Emergency Generator combustion source 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.

Compliance Tests: The Permittee shall conduct performance testing for visible emissions upon request by the Department.

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

Condition 83: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 83.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT

Item 83.2:
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 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 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 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.
Subsequent reports are due every 6 calendar month(s).

Condition 84: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

Item 84.1:
The Compliance Certification activity will be performed for:

Emission Unit: G-XEMPT
Process: EGN

Item 84.2:
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 Permitte shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the emergency generator:

NOx 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

PM2.5 (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 an 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.
Subsequent reports are due every 6 calendar month(s).

Condition 85: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 231-7

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

Emission Unit: G-XEMPT
Process: NGH

Item 85.2:
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 Permitte shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the natural gas heater:

NOx 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

PM2.5 (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.
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 in 6 NYCRR 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 demonstrate, 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 facility was being properly operated and maintained;
(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the 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 any 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 malfunction 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 86: Contaminant List
Effective for entire length of Permit

Applicable State Requirement:ECL 19-0301

Item 86.1:
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

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 87: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 201-1.4

Item 87.1:
(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 maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedence occurred and if it was unavoidable, include the time, frequency and duration of the exceedence, 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 monitoring and quarterly reporting requirements need not submit additional reports of exceedences to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall 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. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. 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, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility 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 88: Air pollution prohibited
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 211.1

Item 88.1:
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 89: Compliance Demonstration
Effective for entire length of Permit

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

Item 89.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 89.2:
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 a 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.
Subsequent reports are due every 12 calendar month(s).

Condition 90: CO2 Budget Trading Program - Excess emission requirements
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 242-1.5

Item 90.1:

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 91: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 242-1.5

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:

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

Condition 92: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 242-1.5

Item 92.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 92.2:
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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 93: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR Subpart 242-4

Item 93.1:
The Compliance Demonstration activity will be performed for the Facility.

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

Item 93.2:
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 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 94: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 242-8.5

Item 94.1:
The Compliance Demonstration activity will be performed for the Facility.

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

Item 94.2:
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, NOx, and SO2 provisions.
(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.
Subsequent reports are due every 3 calendar month(s).

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

Condition 95: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 201-5.4

Item 95.1:
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 95.2:
Compliance Demonstration shall include the following monitoring:

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

Greenidge is limited to 242.3 pounds of NOx per startup/shutdown event. The 05/31/2018 NOx 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 DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 96: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 201-5.4

Item 96.1:
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 96.2:
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 242.3 pounds per SU or SD event until such time that fifteen startups and fifteen shutdowns of Process P75 have occurred. Startup (SU) is defined as the period beginning with the initial firing of Process P75 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.

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 fuel input 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 NOx emission limit in pounds per event during startup and shutdown along with a table that summarizes the NOx 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 NOx 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: 242.3 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.
Subsequent reports are due every 6 calendar month(s).