UPDATED TITLE V AIR OPERATING PERMIT APPLICATION FORMS

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
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Attachment B – Title V Permit Application Forms

All proposed changes are noted in red font

Section I - Certification

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information required to complete this application, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Responsible Official	Dale Irwin	Title	President
Signature	Dale Irwin boxSIGN 4Z7KRJLX-4P6Q5R5K	Date	11/7/2025

P.E. Certification

I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Professional Engineer		NYS License No.	
Signature		Date	/ /

Section II - Identification Information

Title V Facility Permit
❑ New ☒ Renewal ❑ Significant Modification ☒ Minor Modification ❑ Administrative Amendment ❑ Operational Flexibility Notification

State Facility Permit
❑ New ❑ Modification
General Permit Title:

❑ Application involves construction of new facility ❑ Application involves construction of new emission unit(s)

Owner/Firm

Name: Greenidge Generation LLC							
Street Address: 590 Plant Road PO Box 187							
City	Dresden	State	NY	Country	U.S.	Zip	14441
Owner Classification ❑ Federal ☒ Corporation/Partnership ❑ State ❑ Individual ❑ Municipal						Taxpayer ID	9 0 0 9 1 1 2 1 2

Facility ❑ Confidential

Name	Greenidge Station		
Location Address	590 Plant Road		
❑ City / ❑ Town / ☒ Village	Dresden	Zip	14441

Project Description ❑ Continuation Sheet(s)

Greenidge Generation Facility Title V Permit Renewal Application.

Owner/Firm Contact Mailing Address

Name (Last, First, Middle Initial)	Irwin, Dale					Phone No.	(315)536 3423
Affiliation	Greenidge Generation LLC	Title	President			Fax No.	
Street Address	590 Plant Road PO Box 187						
City	Dresden	State	NY	Country	U.S.	Zip	14441

Facility Contact Mailing Address

Name (Last, First, Middle Initial)	Irwin, Dale					Phone No.	(315) 536 3423
Affiliation	Greenidge Generation LLC	Title	President			Fax No.	
Street Address	590 Plant Road PO Box 187						
City	Dresden	State	NY	Country	U.S.	Zip	14441

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Section III - Facility Information

Classification

❑ Hospital ❑ Residential ❑ Educational/Institutional ❑ Commercial ❑ Industrial ☒ Utility

Affected States (Title V Only)

❑ Vermont ❑ Massachusetts ❑ Rhode Island ☒ Pennsylvania Tribal Land: Onondaga Nation

❑ New Hampshire ❑ Connecticut ❑ New Jersey ❑ Ohio Tribal Land: Seneca Nation of Indians

SIC Codes

4911	4931											

Facility Description ❑ Continuation Sheet(s)

Greenidge generating station consists of five emission units: one electric generating unit (G-00004), and one solid fuel handling system unit (G-00005.) Unit G-00004 consists of boiler (B0006) with a maximum heat input of 1,117 MMBtu/hr. Boiler B0006 exhausts through emission point 00004. The boiler uses natural gas as the primary fuel, clean (untreated) wood, and waste wood from a furniture making process are also permitted. B0006 is equipped with over fire air, natural gas reburn, selective non catalytic reduction, and selective catalytic reduction to control NOx emissions, and a spray dry reactor and baghouse to control SO2 and particulate emissions. The emission control system is collectively referred to as the multi pollutant control (MPC) project. SO2 emissions are also controlled by the sulfur content of the fuel, and NOx emissions are also controlled through good combustion practices. Emission unit G-00005 includes an all solid fuel handling operations at the facility.

Emission unit G00006 includes all ash handling operations at the facility. Fly ash collected from the boilers is pneumatically conveyed to the flyash storage silo (which is equipped with a baghouse) and then mixed with wastewater in a pugmill before being discharged into trucks for transport to the onsite ash disposal landfill. There it is dumped, graded, compacted, and covered. Bottom ash from the boilers is quenched and pumped to a settling pond. Settled ash is periodically dredged for reuse under a Beneficial Use Determination (BUD.) Emission unit G-00007 includes the lime hydrating system, used for flue gas desulfurization. Emissions from this unit are controlled by a wet scrubber and discharge through emission point 00072. Emission unit G-00008 consists of the aqueous urea handling system that supports the boiler NOx emission control system.

Compliance Statements (Title V Only)

I certify that as of the date of this application the facility is in compliance with all applicable requirements: ☒ YES ❑ NO

If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following:

- ☒ This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application.
- ☒ For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.
- ☒ Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine the status.

Facility Applicable Federal Requirements ☒ Continuation Sheet(s)

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	63	A						
40	CFR	68							
40	CFR	82	F						
40	CFR	98							
6	NYCRR	200		6					
6	NYCRR	201	1	7					
6	NYCRR	201	1	8					
6	NYCRR	201	3	2	a				
6	NYCRR	201	3	3	a				

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6	NYCRR	201	6	4	a	4			
6	NYCRR	201	6	4	a	7			
6	NYCRR	201	6	4	a	8			
6	NYCRR	201	6	4	c				
6	NYCRR	201	6	4	c	2			
6	NYCRR	201	6	4	c	3	ii		
6	NYCRR	201	6	4	d	4			
6	NYCRR	201	6	4	e				
6	NYCRR	201	6	4	f	6			
6	NYCRR	202	1	1					
6	NYCRR	202	2	1					
6	NYCRR	202	2	5					
6	NYCRR	211		2					
6	NYCRR	215		2					
6	NYCRR	225	1	2	h				
6	NYCRR	225	1	5	c				
6	NYCRR	201	6						

Facility State Only Requirements ❑ Continuation Sheet(s)

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	4						
6	NYCRR	211		1					
6	NYCRR	242	1	4	b				
6	NYCRR	242	1	5					
6	NYCRR	242	8	5					
6	NYCRR	242	4						
	ECL	19	0301						

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Section III - Facility Information (continued)

Facility Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	63	ZZZZ						

☒ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		- -	

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #34

This requirement applies to Emission Unit G-XEMPT, Process EGN ~~and DFP~~
Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ. The facility is required to comply with the following conditions for the Emergency Generator ~~and the Diesel Fire Pump~~:
The existing emergency generator is comprised of a compression ignition (CI) stationary reciprocating internal combustion engine fired by Ultralow Sulfur Diesel (ULSD) fuel oil # 2, rated at 375 horsepower hour (HP).
~~The existing emergency diesel fire pump engine is comprised of a compression ignition (CI) stationary reciprocating internal combustion engine fired by ULSD fuel oil # 2 and rated at 276 HP.~~
The Permittee shall comply with the definition of emergency stationary RICE in 40 CFR 63.6675 and the following provisions:
I. Compliance Date:
The compliance date for the ~~two existing~~ engine~~s~~: 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~~s~~ 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

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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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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Section III - Facility Information (continued)

Facility Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	230		5	a				

☒ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		- -	

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ☒ Monitoring of Process or Control Device Parameters as Surrogate

Description

Previous Condition #27

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

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
017	Gasoline	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
120000		18	gallons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
17	ANNUAL MAXIMUM ROLLED MONTHLY	05	MONTHLY	16	AS REQUIRED - SEE MONITORING DESCRIPTION

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Section III - Facility Information (continued)

Facility Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	5					

☒ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		- -	

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #28

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

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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Section III - Facility Information (continued)

Facility Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ☒ Monitoring of Process or Control Device Parameters as Surrogate

Description

Previous Condition #30

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, ~~emergency diesel fire pump,~~ and natural gas heater.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
0NY210000	OXIDES OF NITROGEN	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
153.8		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
71	ANNUAL TOTAL ROLLED MONTHLY	05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)

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Section III - Facility Information (continued)

Facility Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		0NY750 - 00 - 0	Carbon Dioxide Equivalents

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ☒ Monitoring of Process or Control Device Parameters as Surrogate

Description

Previous Condition #29

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

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
0NY750000	CARBON DIOXIDE EQUIVALENTS	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
53788.1		34	tons

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
36	30-DAY ROLLING AVERAGE	05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)

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Section III - Facility Information (continued)

Facility Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement	❑ Capping	CAS No.	Contaminant Name
		0NY750 - 00 - 0	CARBON DIOXIDE EQUIVALENTS

Monitoring Information

❑ Ambient Air Monitoring ❑ Work Practice Involving Specific Operations ☒ Monitoring of Process or Control Device Parameters as Surrogate

Description

Facility-wide greenhouse gas emissions are limited based on the following schedule:

Permit Year	Actual Emissions Limit (tons of CO2e/year)
PY1	475,683.48
PY2	475,683.48
PY3	428,115.13
PY4	380,426.78
PY5	358,071.27

This facility wide limit includes the CO2e emissions from Boiler #6, emergency diesel generator, and natural gas heater. For calculating 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 emissions measured by CEMS CO2 emissions and the calculated CO2e of CH4 and N2O. For purposes of showing compliance with this limit, 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.

Emissions limits are based on 12-month rolling average to be calculated on the 12th month of the year through the 11-month of the following year.

During Permit Years 3 and 4, to the extent that the Facility is called upon to provide power to the grid above the number of megawatts (MW) it provided to the grid in June 2022, the emissions associated with the increased MWs shall not count toward the emissions limits in Permit Years 3 and 4. In no event, however, will the Facility's emissions in Permit Years 3 and 4 exceed the actual emissions limit for the immediately preceding Permit Year. Greenidge will promptly notify the Department of each instance the Facility is called upon to address reliability concerns, record the amount of power supplied to the grid for each instance and the emissions associated with each instance, and report all such information to the Department on a regular basis.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
0NY750000	CARBON DIOXIDE EQUIVALENTS	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
SEE CONDITION		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)

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Section III - Facility Information

Facility Emissions Summary ☒ Continuation Sheet(s)

CAS Number	Contaminant Name	Potential to Emit (tons/yr)	**2024** Actual Emissions (pounds/yr)*
0NY210000	OXIDES OF NITROGEN		166,665
0NY075100	UNSPECIATED PARTICULATES		13,273
0NY075005	PM-10		52,717
0NY075-02-5	PM-2.5		52,726
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS		889,855,218
0NY998-00-0	VOC		38,155
0NY100-00-0	TOTAL HAPs		12,980
50-00-0	FORMALDEHYDE		517
71-43-2	BENZENE		14.5
75-07-0	ACETALDEHYDE		0.01
91-20-3	NAPHTHALENE		4.21
107-02-8	ACROLEIN		1.4E-03
108-88-3	TOLUENE		23.5
110-54-3	HEXANE		12,410
1330-20-7	XYLENE, M, O & P MIXT		4.2E-03
7439-96-5	MANGANESE		2.6
7439-97-6	MERCURY		1.8
7440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		14.5
7440-38-2	ARSENIC		1.4
7440-41-7	BERYLLIUM		0.08
7440-43-9	CADMIUM		7.6
7440-47-3	CHROMIUM		9.6
7440-48-4	COBALT		0.6
7782-49-2	SELENIUM		0.2
124-38-9	CARBON DIOXIDE		839,768,322
630-08-0	CARBON MONOXIDE		180,091
7439-92-1	LEAD		
7446-09-5	SULFUR DIOXIDE		4,229
7647-01-0	HYDROGEN CHLORIDE		
7664-41-7	AMMONIA		62,740.5

**Emissions reported in the Part 202 Annual Emission Statement for Reporting Year 2024.*

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All proposed changes are noted in red font

Section IV - Emission Unit Information

Emission Unit Description ❑ Continuation Sheet(s)

EMISSION UNIT	G-0004

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 ❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation
BOILER	BOILER BUILDING			

Emission Point ❑ Continuation Sheet(s)

EMISSION PT.	00004				
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in) / Width (in)
479	227	99	156	309	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft) / Date of Removal
43.2	344000	340.321	4727.002	BOILER	

Emission Source/Control ❑ Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
B0006	C		11/1/1953				Boiler 6
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
1117	25	million Btu per hour					
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BAG06	K		11/1/2006		016	Fabric Filter	
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
NCR06	K		11/1/2006		029	Selective non-catalytic reduction (SNCR)	Fuel Tech (SNCR)
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
OFA06	K		11/1/2006		033	Selective Catalytic Reduction (SCR)	Selective Catalytic Reduction (SCR)
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
SCR06	K		11/1/2006		033	Selective Catalytic Reduction (SCR)	Selective Catalytic Reduction (SCR)
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description

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Section IV - Emission Unit Information (continued)

Process Information ☒ Continuation Sheet(s)

EMISSION UNIT	G-0004	PROCESS	P65

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.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
1-05-006-01				

❑ Confidential
❑ Operating at Maximum Capacity
❑ Activity with Insignificant Emissions

Operating Schedule			
Hrs/Day	Days/Yr	Building	Floor/Location
		BOILER	

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

B0006	LNB06	NCR06	SCR06				

Process Information ☒ Continuation Sheet(s)

EMISSION UNIT	G-0004	PROCESS	P75

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.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
1-01-006-01				

❑ Confidential
❑ Operating at Maximum Capacity
❑ Activity with Insignificant Emissions

Operating Schedule			
Hrs/Day	Days/Yr	Building	Floor/Location
		BOILER	

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

B0006	BAG06	LNB06	NCR06	OFA06	SCR06		

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
G - 00004				40	CFR	97	AAAAA	406					
G - 00004				40	CFR	97	CCCCC	606					
G - 00004				6	NYCRR	201	7						
G - 00004				6	NYCRR	201	7						
G - 00004				6	NYCRR	227	1	3	a				

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	63	DDDDD						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
☒ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #51

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
	341	FUEL CONSUMPTION	

Parameter Code	Parameter Description	Manufacturer Name/Model No.
38	HEAT INPUT	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	85	136	PERCENT

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
71	ANNUAL TOTAL ROLLED MONTHLY	05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)

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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	72	A	6	a	1			

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #52

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	B	10	a				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #53

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), 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

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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.

Work Practice Type	Process Material		Reference Test Method
	Code	Description	

Parameter		Manufacturer Name/Model No.
Code	Description	

Limit		Limit Units	
Upper	Lower	Code	Description

Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	B	10	b				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #54

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).

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	B	10	c				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #55

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	B	10	d				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #56

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

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All proposed changes are noted in red font

Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	B	13	a				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #57

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.”

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	C	20					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #58

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
40	CFR	75	G	64	a				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #59

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) for 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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #42

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App B and F

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
146.8		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
71	ANNUAL TOTAL ROLLED MONTHLY	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				124 - 38 - 9	CARBON DIOXIDE

Monitoring Information

☒ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #46

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).

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
1562		487	pounds per event

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
76	MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				124 - 38 - 9	CARBON DIOXIDE

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #48

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).

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
130.17		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				0NY075 - 02 - 5	PM 2.5

Monitoring Information

❑ Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #45

PM2.5 emissions shall not exceed 151.7 tons per year on a 12 month rolling total including all startups, shutdowns, malfunctions and upsets.
This limit is BACT under Part 231-7.6.
In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 151.7 tpy limit, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1 hour sampling period for each test run). The new (adjusted) annual limit of total PM2.5 emission limits cannot exceed 205 tpy. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedance of the PM2.5 limit of 205 tpy that may occur during the initial compliance performance testing shall not be considered violations of the permit conditions.
Any adjustment to the PM10 emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App B and F

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
151.7		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
71	ANNUAL TOTAL ROLLED MONTHLY	14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				0NY750 - 00 - 0	CARBON DIOXIDE EQUIVALENTS

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #47

The facility will develop and implement a Leak Detection and Repair (LDAR) Program, to be conducted annually, for the above ground piping on the facility property to minimize fugitive Greenhouse Gases (GHGs) from the natural gas pipeline system. Greenidge will continuously monitor and minimize, to the extent practicable, its station parasitic load.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
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DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				0NY075 - 00 - 5	PM-10

Monitoring Information

❑ Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #44

Total emissions of PM-10 shall not exceed 151.7 tons per year on a 12 month rolling total basis, rolled monthly including all startups, shutdowns, malfunctions and upsets. This limit is BACT under Part 231-7.6.
In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 151.7 tpy limit firing natural gas and/or co-firing natural gas and biomass, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new adjusted) annual limit of total PM10 emission limits cannot exceed 205 tpy. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedance of the PM10 limit of 205 tpy that may occur during the initial compliance performance testing shall not be considered violations of the permit conditions.
Any adjustment to the PM10 emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App B and F

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
151.7		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
71	ANNUAL TOTAL ROLLED MONTHLY	05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004				630 - 08 - 0	CARBON MONOXIDE

Monitoring Information

☒ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #50

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App B and F

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
464.8		38	tons per year

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
71	ANNUAL TOTAL ROLLED MONTHLY	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	5	4					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P65		0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring

❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #1-4

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 required air pollution control equipment is up to temperature and 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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
242.3		487	pounds per event

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
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DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	6						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P65		7664 - 41 - 7	AMMONIA

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring

❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #1-2

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
20		371	parts per million by volume (dry, corrected to 3% oxygen)

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P65		0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #64

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0365		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P65		0NY075 - 00 - 5	PM-10

Monitoring Information

❑Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring

❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #66

While firing natural gas only emissions of PM-10 from Unit G-00004 must not exceed 0.00825 lb/MMBtu. An initial stack test to demonstrate compliance with the PM-10 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed 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 0.00825 lb/MMBtu burning natural gas, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of total PM-10 emission limits cannot exceed 0.021 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 limit of 0.00825 lb/M
MBtu that may occur during the initial compliance performance testing and, that would be below 0.021 lb/MMBtu shall not be considered violations of the permit conditions.

Any adjustment to the PM-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 6NYCRR 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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A M-5 and 40 CFR 51 App M

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.00825		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-HOUR AVERAGE	09	ANNUALLY	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P65		0NY075 - 00 - 0	PARTICULATES

Monitoring Information

❑Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring

❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #67

While firing natural gas only from Unit G-00004 emissions of PM must not exceed 0.002 lb/MMBtu. An initial stack test to demonstrate compliance with the PM emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed within 180 days of the beginning of commercial production of power, but no later than 180 days after the initial startup of Boiler #6.
For the purposes of this permit: (1) “beginning of commercial production of power” shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.
Additional compliance testing for PM emissions from Unit G-00004 will be conducted annually.
This condition also satisfies the requirements of 6 NYCRR Part 227-1.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A M-5 and 40 CFR 51 App M

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.002		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-HOUR AVERAGE	09	ANNUALLY	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P65		630 - 08 - 0	CARBON MONOXIDE

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring

❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #1-3

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.075		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	5	4					

❑ Applicable Federal Requirement ☒ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #1-5

NOx Emissions from Startup (SU) and shutdown (SD) events shall be limited to 804.24 pounds per SU or SD event until such time that fifteen startups and fifteen shutdowns of Emission Unit G-00004 have occurred. Startup (SU) is defined as the period beginning with the initial firing of Unit G-00004 and ending at the time when ~~the Unit has achieved minimum generating load and~~ the required air pollution control equipment is up to temperature and 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 actual natural gas consumption and the fuel's heating value (MMBtu/scf) of 1,020E-06 MMBtu/scf.
Within 30 days of completing the required number of SU and SD events Greenidge shall submit to the Department a revised SU/SD Plan that includes a revised 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

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
804.24		487	pounds per event

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	6						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		- -	

Monitoring Information

❑Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #69

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."

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring

❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #71

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.058		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	5	4					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY210 - 00 - 0	OXIDES OF NITROGEN

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #70

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.05		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

DEC ID
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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY075 - 02 - 5	PM 2.5

Monitoring Information

❑Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #72

While co-firing natural gas and up to 19% biomass emissions of PM2.5 from Unit G-00004 must not exceed 0.031 lb/MMBtu. An initial stack test to demonstrate compliance with the PM2.5 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) "beginni
ng
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 PM2.5 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 PM2.5 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 6NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.
Additional compliance testing for PM2.5 emissions from Unit G-00004 will be required annually.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A M-5 and 40 CFR 51 App M

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.031		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-HOUR AVERAGE	14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY075 - 00 - 0	PARTICULATES

Monitoring Information

❑Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #73

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A M-5

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.01		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-HOUR AVERAGE	09	ANNUALLY	14	SEMI-ANNUALLY (CALENDAR)

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	5					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY075 - 00 - 5	PM-10

Monitoring Information

❑Continuous Emission Monitoring
☒ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #74

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 th
e first time wh
en 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 estab
lished 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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A M-5 and 40 CFR 51 App M

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.031		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
08	1-HOUR AVERAGE	09	ANNUALLY	14	SEMI-ANNUALLY (CALENDAR)

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

DEC ID
8-4642-00108

All proposed changes are noted in red font

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		630 - 08 - 0	CARBON MONOXIDE

Monitoring Information

☒Continuous Emission Monitoring ❑ Intermittent Emission Testing ❑ Ambient Air Monitoring	❑ Monitoring of Process or Control Device Parameters as Surrogate ❑ Work Practice Involving Specific Operations ❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #77

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.075		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		630 - 08 - 0	CARBON MONOXIDE

Monitoring Information

☒Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
❑ Record Keeping/Maintenance Procedures

Description

Previous Condition #78

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 App A

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Continuous Emission Monitor

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.075		7	pounds per million Btus

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)

DEC ID
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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY075 - 00 - 0	PARTICULATES

Monitoring Information

❑Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #75

Leak detectors shall be used to ensure proper operation of the baghouse. The Permittee shall install, calibrate, maintain, and continuously operate a Bag Leak Detection System; Each Bag Leak Detection System must be installed, operated, calibrated and maintained in a manner consistent with the manufacturer's written specifications and recommendation.
The Bag Leak Detection System sensor must provide output relative or absolute particulate matter loadings, and must be equipped with a device to continuously record the output signal from the sensor.
The Bag Leak Detection System must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel
If an alarm is received, a visual inspection will be made to determine the cause of the alarm. Visual inspections shall be conducted as soon as practical, but no later than one hour after the alarm is received.
If a leak is detected by visual inspection the affected baghouse module will be taken offline and necessary repairs shall be made before resuming use of the module.
Records of alarms, inspection results and filter replacements shall be maintained on site and made available to the Department upon request.
This condition also satisfies the requirements of 6 NYCRR Part 227-1.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	13	QUARTERLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

DEC ID
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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7	6					

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00004		P75		0NY075 - 00 - 0	PARTICULATES

Monitoring Information

❑Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #76

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 Appendix A, Method 5

Parameter Code	Parameter Description	Manufacturer Name/Model No.
96	PRESSURE DROP	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
10.0	3.0	284	inches of water

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
9N	RANGE-NOT TO FALL OUTSIDE OF STATED RANGE EXCEPT DURING	03	DAILY	14	SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation
Air Permit Application

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All proposed changes are noted in red font

Section IV - Emission Unit Information

Emission Unit Description ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	0	0	0	0	5

Miscellaneous process emission sources.

Building ❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation
HMILL	HAMMER MILL			

Emission Point ❑ Continuation Sheet(s)

EMISSION PT.	0	0	0	0	5						
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
					Length (in)	Width (in)
451	23	-10	64	60		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
1	1066	340.321	4727.002	HMILL		

Emission Source/Control ❑ Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BAG08	K				016	FABRIC FILTER	Unspecified bag house manufacturer
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
HMILL	I						Hammer Mill
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
WPILE	I						wood storage pile
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description

DEC ID
8-4642-00108

All proposed changes are noted in red font

Section IV - Emission Unit Information (continued)

Process Information ❑ Continuation Sheet(s)

EMISSION UNIT	G-0005		PROCESS	B	I	O

Description

Biomass handling, storage, and processing.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-05-103-99				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

Emission Source/Control Identifier(s)

WPILE							

Process Information ❑ Continuation Sheet(s)

EMISSION UNIT	G-0005		PROCESS	M	I	S

Description

Biomass handling, storage, and processing.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-99-999-99				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

00005							

Emission Source/Control Identifier(s)

BAG08	HMILL						

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	201	6						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00005					

Monitoring Information

❑ Continuous Emission Monitoring ❑ Intermittent Emission Testing ❑ Ambient Air Monitoring	❑ Monitoring of Process or Control Device Parameters as Surrogate ❑ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #79

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

All proposed changes are noted in red font

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 conditions are beyond what Part 212 would typically require.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (Calendar)

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	212	1	6	a				

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00005					

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #80

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.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method
			40 CFR 60 Appendix Method 9

Parameter Code	Parameter Description	Manufacturer Name/Model No.
01	OPACITY	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
20		136	percent

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

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Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
18	6-MINUTE AVERAGE (METHOD 9)	14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (Calendar)

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - 00005					

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #81

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

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

DEC ID
8 - 4 6 4 2 - 0 0 1 0 8

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Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (Calendar)

DEC ID
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Section IV - Emission Unit Information

Emission Unit Description ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	0	0	0	0	8

Process operations associated with the aqueous urea system.

Building ❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation
BOILER	BOILER BUILDING			

Section IV - Emission Unit Information (continued)

Emission Source/Control ☒ Continuation Sheet(s)

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
TNK08	I						Urea storage tank

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

DEC ID
8-4642-00108

All proposed changes are noted in red font

Section IV - Emission Unit Information (continued)

Process Information ☒ Continuation Sheet(s)

EMISSION UNIT	G-0008		PROCESS	P8U

Description

Aqueous urea system

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-99-999-99				

❑ Confidential
❑ Operating at Maximum Capacity
❑ Activity with Insignificant Emissions

Operating Schedule			
Hrs/Day	Days/Yr	Building	Floor/Location
		BOILER	

Emission Point Identifier(s)	Emission Source/Control Identifier(s)
TNK08	

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Section IV - Emission Unit Information

Emission Unit Description ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	F	A	B	A	H

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

Building ❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation

Emission Point ☒ Continuation Sheet(s)

EMISSION PT.	0	0	0	0	9						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
						Length (in)	Width (in)
	80					46	46
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
		340.346	4727.025				

EMISSION PT.	0	0	0	1	0						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
						Length (in)	Width (in)
	80					46	46
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
		340.346	4727.025				

EMISSION PT.	0	0	0	1	1						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
						Length (in)	Width (in)
	57					30	30
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
		340.346	4727.025				

EMISSION PT.	0	0	0	1	2						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
						Length (in)	Width (in)
	57					30	30
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
		340.346	4727.025				

EMISSION PT.	0	0	0	1	3						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
						Length (in)	Width (in)
	90			48			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
		340.346	4727.025				

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Emission Source/Control ☒ Continuation Sheet(s)

Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BAG10	K				016	FABRIC FILTER	Bag House
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BIN01	K				016	FABRIC FILTER	Bag House
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BIN02	K				016	FABRIC FILTER	Bag House
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BIN03	K				016	FABRIC FILTER	Bag House
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
BIN04	K				016	FABRIC FILTER	Bag House
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
VENT1	I						Ash Silo Vent
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
VENT2	I						Ash Silo Vent
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
VENT3	I						Ash Silo Vent
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
VENT4	I						Ash Silo Vent
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
VENT5	I						Ash Silo Vent
Design Capacity	Design Capacity Units Code	Design Capacity Units Description			Waste Feed Code	Waste Feed Description	Waste Type Code / Description

DEC ID
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All proposed changes are noted in red font

Section IV - Emission Unit Information (continued)

Process Information ☒ Continuation Sheet(s)

EMISSION UNIT	G	-	F	A	B	A	H		PROCESS	F	B	A

Description

Facility natural gas and diesel-fueled combustion sources that are subject to VOC LAER and installed prior to 06/03/2008.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-05-102-99				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)							
00013	00012	00011	00010	00009			
Emission Source/Control Identifier(s)							
BAG10	BIN01	BIN02	BIN03	BIN04	VENT1	VENT2	VENT3
VENT4	VENT5						

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Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Emission Unit Compliance Certification ❑ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - FABAH					

Monitoring Information

❑ Continuous Emission Monitoring ❑ Intermittent Emission Testing ❑ Ambient Air Monitoring	❑ Monitoring of Process or Control Device Parameters as Surrogate ❑ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #82

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.

I. 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

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (Calendar)

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All proposed changes are noted in red font

Section IV - Emission Unit Information

Emission Unit Description ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	F	U	G	T	V

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

Building ❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation

Emission Point ☒ Continuation Sheet(s)

EMISSION PT. 00017

Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
					Length (in)	Width (in)
Exit Velocity (FPS)	**Exit Flow (ACFM)**	**NYTM (E) (KM)**	**NYTM (N) (KM)**	**Building**	**Distance to Property Line (ft)**	**Date of Removal**
		340.346	4727.025			

Emission Source/Control ☒ Continuation Sheet(s)

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
C0601	K				016	Dust Collector	

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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All proposed changes are noted in red font

Section IV - Emission Unit Information (continued)

Process Information ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	F	U	G	T	V		PROCESS	F	U	G

Description

Miscellaneous fugitive sources.

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-99-999-99				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)							
Emission Source/Control Identifier(s)							
FUG01							

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All proposed changes are noted in red font

Section IV - Emission Unit Information (continued)

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #83

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. Maintain 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 unaltered wood and resinated wood, ash delivery vehicles shall be enclosed and covered to prevent release.
All biomass delivery vehicles shall be unloaded in enclosed storage areas (buildings), as much as possible.
All vehicles leaving the facility that are used for transporting materials likely to become airborne shall be enclosed or covered to prevent release.
All processing and blending activities of the biomass shall be done in enclosed buildings.
In order to prevent the fugitive particulates emissions from the biomass storage activities, the biomass shall be stored in enclosed buildings as much as possible.
In order to prevent the fugitive particulate emissions from the biomass unloading, storage, processing system and from the fly and bottom

ash handling, storage, and disposal system, the Permittee shall (1) maintain all enclosed buildings under negative pressure (as appropriate); and (2) operate the particulate air pollution controls at all times the respective emission sources are in operation.
The Permittee shall ensure that the doors from the biomass handling, storage, and processing buildings remain closed to the maximum extent possible using good engineering design.
The Permittee shall perform the following:
Daily checks for any visible fugitive emissions from the facility processing buildings windows, doors, and roof monitors.
Weekly inspection of all the processing buildings to ensure that:
All access doors that are capable of being closed are closed; and
As required elsewhere in the permit all conveyors shall be fully enclosed, and all fabric filters, and bin vent filters shall be operational at all times as prescribed by the manufacturers.
If visible emissions are observed as a result of any of the above-specified inspections, the Permittee shall take corrective actions as soon as possible, to minimize and eliminate the visible emissions.
Notwithstanding the fugitive particulate emissions control measures specified in this permit, the Permittee may employ additional control measures to prevent fugitive particulate emissions from becoming airborne and causing the discharge of visible emissions of fugitive particulate emissions beyond the property line.
The facility will develop and maintain a Fuel Yard Fire Prevention and Control Plan. The Plan will be maintained on site and available for review upon request.
The requirements of 6 NYCRR Part 212 are effectively met as these conditions are beyond what Part 212 would typically require.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

Section IV - Emission Unit Information

Emission Unit Description ❑ Continuation Sheet(s)

EMISSION UNIT: G - X E M P T

This emission unit includes the following exempt sources: Emergency Diesel Generator~~, Emergency Diesel Fire Pump,~~ and the Natural Gas

Heater and their associated emission points.

There are three processes associated with this emission unit:

Process EGN: Emergency Generator

~~Process DFP: Diesel Fire Pump~~

Process NGH: Natural Gas Heater

Building ❑ Continuation Sheet(s)

Building	Building Name	Length (ft)	Width (ft)	Orientation

EMISSION PT.: 0 0 0 2 1

Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
	25		6			

Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal

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All proposed changes are noted in red font

		340.346	4727.025			
EMISSION PT. 00022						
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
	25		6			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		340.346	4727.025			
EMISSION PT. 00023						
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section Length (in)	Cross Section Width (in)
	15		20			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		340.346	4727.025			

Emission Source/Control

❑ Continuation Sheet(s)

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
~~DFP01~~	~~C~~						~~Diesel Fire Pump~~

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
EGN01	C						Emergency Generator

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description
375	471	brake horsepower				

Emission Source ID	Emission Source Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Control Type Description	Manufacturer's Name/Model No.
NGH01	C						Natural Gas Heater

Design Capacity	Design Capacity Units Code	Design Capacity Units Description	Waste Feed Code	Waste Feed Description	Waste Type Code	Waste Type Description

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All proposed changes are noted in red font

Section IV - Emission Unit Information (continued)

Process Information ❑ Continuation Sheet(s)

EMISSION UNIT	~~G~~	~~-~~	~~X~~	~~E~~	~~M~~	~~P~~	~~T~~		PROCESS	~~D~~	~~F~~	~~P~~

Description

~~Diesel Fire Pump~~

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
~~2-02-001-02~~				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

~~00022~~							

Emission Source/Control Identifier(s)

~~DFP01~~							

Process Information ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	X	E	M	P	T		PROCESS	E	G	N

Description

Emergency Generator

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
2-02-001-02				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

00021							

Emission Source/Control Identifier(s)

EGN01							

Process Information ❑ Continuation Sheet(s)

EMISSION UNIT	G	-	X	E	M	P	T		PROCESS	N	G	H

Description

Natural Gas Heater

Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
1-05-001-06				

❑ Confidential ❑ Operating at Maximum Capacity ❑ Activity with Insignificant Emissions	Operating Schedule		Building	Floor/Location
	Hrs/Day	Days/Yr		

Emission Point Identifier(s)

00023							

Emission Source/Control Identifier(s)

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All proposed changes are noted in red font

NGH01							

Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements ❑ Continuation Sheet(s)									
				Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #84

Visible emissions from Emergency Generator~~, Fire Pump~~ and Natural Gas Heater combustion source~~s~~ shall not exceed exhibit greater than 20% opacity (based on six minute average) except for one six-minute period per hour of no more than 27% opacity. This is a BACT requirement.
Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the emergency generator~~, emergency fire pump~~ and natural gas heater.
Subsequent Compliance Tests: The Permittee shall conduct performance testing for visible emissions on an annual basis.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
				- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate

DEC ID
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All proposed changes are noted in red font

❑ Intermittent Emission Testing ❑ Ambient Air Monitoring	❑ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #85

Determination of actual GHG emissions resulting from the emergency generator~~, emergency fire pump~~ and natural gas heater:
The GHG global warming potentials and the default CO2, CH4 and N2O emission factors used for the calculation of the GHG emissions (as CO2e) resulting from the emergency diesel generator~~, and the emergency fire pump~~ and natural gas heater shall be equal with those contained in 40 CFR Part 98.
The heating values of the ULSD fuel oil No.2, and natural gas used for the calculations of the GHG emissions shall equal the following:
0.138 MMBtu/gallon for ULSD fuel oil No.2;
1,020 BTU/scf for natural gas;
The GHG emissions (as CO2e) for the emergency generator~~, the emergency generator fire pump~~ and natural gas heater shall be determined separately by calculations based on the:
Actual measured ULSD fuel oil No.2 and natural gas consumption rates;
CO2, CH4 and N2O emission factors and fuel heating value specified in this permit;
GHG emissions (as CO2e) shall be determined by adding the CO2, CH4, and N2O emissions.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - XEMPT		EGN		- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #87

The following provides a description and compliance requirements for the emergency diesel generator. Compliance demonstration will be made available for review upon request:
Emergency Generator
The Permittee shall operate an emergency diesel generator that has a nameplate capacity that shall not exceed a maximum power output of 375 brake horse power (BHP).
The Permittee shall maintain documentation that would demonstrate that the emergency generator was installed on or before 1991.
Emission Limitations:
The Permittee shall not discharge or cause to discharge 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 a non-resettable operating hour meter as required elsewhere in this permit.
The emergency generator shall only combust ultra low sulfur distillate (ULSD) fuel oil No.2 as required by regulation.
The emergency generator shall comply with the applicable provisions of 40 CFR 63 Subpart ZZZZ.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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All proposed changes are noted in red font

Emission Unit Compliance Certification ☒ Continuation Sheet(s)

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
6	NYCRR	231	7						

☒ Applicable Federal Requirement ❑ State Only Requirement ❑ Capping

Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name
G - XEMPT		NGH		- -	

Monitoring Information

❑ Continuous Emission Monitoring
❑ Intermittent Emission Testing
❑ Ambient Air Monitoring
❑ Monitoring of Process or Control Device Parameters as Surrogate
❑ Work Practice Involving Specific Operations
☒ Record Keeping/Maintenance Procedures

Description

Previous Condition #88

Natural Gas Heater
The Permittee shall install and operate a natural gas heater that has a nameplate that shall not exceed ~~4~~ 5 MMBtu/hr. This natural gas heater shall combust only pipeline quality natural gas. The hours of operation for the natural gas heater are not limited (i.e., unrestricted at 8,760 hr/yr).
Emission Limitations
The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the natural gas heater:
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 lbs/MMBtu ~~tons per year (based on 12-month rolling total)~~.

Work Practice Type	Process Material Code	Process Material Description	Reference Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method Code	Averaging Method Description	Monitoring Frequency Code	Monitoring Frequency Description	Reporting Requirements Code	Reporting Requirements Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)

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8	-	4	6	4	2	-	0	0	1	0	8	

All proposed changes are noted in red font

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Section IV - Emission Unit Information (continued)

Determination of Non-Applicability (Title V Only) ❑ Continuation Sheet(s)

Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
Emission Unit	Emission Point	Process	Emission Source	❑ Applicable Federal Requirement ❑ State Only Requirement					
-									
Description									

Rule Citation									
Title	Type	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
Emission Unit	Emission Point	Process	Emission Source	❑ Applicable Federal Requirement ❑ State Only Requirement					
-									
Description									

Process Emissions Summary ❑ Continuation Sheet(s)

EMISSION UNIT	-						PROCESS	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control		ERP (lbs/hr)	ERP How Determined
- -								
PTE			Standard Units	PTE How Determined			Actual	
(lbs/hr)	(lbs/yr)	(standard units)					(lbs/hr)	(lbs/yr)

EMISSION UNIT	-						PROCESS	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control		ERP (lbs/hr)	ERP How Determined
- -								
PTE			Standard Units	PTE How Determined			Actual	
(lbs/hr)	(lbs/yr)	(standard units)					(lbs/hr)	(lbs/yr)

EMISSION UNIT	-						PROCESS	
CAS No.	Contaminant Name		% Thruput	% Capture	% Control		ERP (lbs/hr)	ERP How Determined
- -								
PTE			Standard Units	PTE How Determined			Actual	
(lbs/hr)	(lbs/yr)	(standard units)					(lbs/hr)	(lbs/yr)

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8	-	4	6	4	2	-	0	0	1	0	8

All proposed changes are noted in red font

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Section IV - Emission Unit Information (continued)

EMISSION UNIT	Emission Unit Emissions Summary			❑ Continuation Sheet(s)
-				
CAS No.	Contaminant Name			
- -				
	PTE Emissions		Actual	
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
	PTE Emissions		Actual	
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
	PTE Emissions		Actual	
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
CAS No.	Contaminant Name			
- -				
	PTE Emissions		Actual	
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)

Compliance Plan ❑ Continuation Sheet(s)

For any emission units which are not in compliance at the time of permit application, the applicant shall complete the following

Consent Order			Certified progress reports are to be submitted every 6 months beginning ___/___/									
			Applicable Federal Requirement									
Emission Unit	Process	Emission Source	Title	Type	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-												

Remedial Measure / Intermediate Milestones	R/I	Date Scheduled

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Attachment B – Title V Permit Application Forms

All proposed changes are noted in red font

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Section IV - Emission Unit Information (continued)

Request for Emission Reduction Credits ❑ Continuation Sheet(s)

EMISSION UNIT | | - | | | | | |

Emission Reduction Description

Contaminant Emission Reduction Data

Baseline Period ____/____/____ to ____/____/____

Reduction Date ____/____/ Method

CAS No.	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
- -			
- -			
- -			

Facility to Use Future Reduction

Name | APPLICATION ID - - /

Location Address

❑ City / ❑ Town / ❑ Village | State | Zip

Use of Emission Reduction Credits ❑ Continuation Sheet(s)

EMISSION UNIT | | - | | | | | |

Proposed Project Description

Contaminant Emissions Increase Data

CAS No.	Contaminant Name	PEP (lbs/yr)
- -		

Statement of Compliance

❑ All facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order.

Source of Emission Reduction Credit - Facility

Name | PERMIT ID - - /

Location Address

❑ City / ❑ Town / ❑ Village | State | Zip

Emission Unit	CAS No.	Contaminant Name	ERC (lbs/yr) Netting	ERC (lbs/yr) Offset
-	- -			
-	- -			
-	- -			

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Attachment B – Title V Permit Application Forms

All proposed changes are noted in red font

Section IV - Emission Unit Information

Supporting Documentation

- ❑ P.E. Certification
- ☒ List of Exempt Activities (form attached)
- ❑ Plot Plan
- ☒ Methods Used to Determine Compliance (form attached)
- ☒ Application Forms (Attachment B)
- ❑ Calculations
- ❑ Air Quality Model
- ❑ Confidentiality Justification
- ❑ Ambient Air Monitoring Plan (_____ / _____ / _____)
- ❑ Stack Test Protocols/Reports (_____ / _____ / _____)
- ❑ Continuous Emissions Monitoring Plans/QA/QC (_____ / _____ / _____)
- ❑ MACT Demonstration (_____ / _____ / _____)
- ❑ Operational Flexibility: Description of Alternative Operating Scenarios and Protocols
- ❑ Title IV: Application/Registration
- ❑ ERC Quantification (form attached)
- ❑ Use of ERC(s) (form attached)
- ❑ Baseline Period Demonstration
- ❑ Analysis of Contemporaneous Emission Increase/Decrease
- ❑ LAER Demonstration (_____ / _____ / _____)
- ❑ BACT Demonstration (_____ / _____ / _____)
- ☒ Other Document(s):

  Emission Unit Matrix
  List of Exempt Activities Form
  Methods Used to Determine Compliance Form

UPDATED METHODS USED TO DETERMINE COMPLIANCE

GREENIDGE GENERATION
METHODS USED TO DETERMINE COMPLIANCE
TITLE V PERMIT RENEWAL APPLICATION
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Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
Please Note: This report lists permit conditions in the order in which they are present within Greenidge's Title V Operating Permit				
1	6 NYCRR 200.6	Facility	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 Air Pollution Control Permit Conditions emission control required.	The facility will comply with permit terms.
2	6 NYCRR 201-6.4 (a) (7)	Facility	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.	The facility will pay all applicable fees on schedule.
3	6 NYCRR 201-6.4 (c)	Facility	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.	The facility will maintain and report all compliance monitoring records as required.

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4	6 NYCRR 201-6.4 (c) (2)	Facility	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.	All compliance monitoring and recordkeeping will be conducted according to the terms and conditions of this permit and kept on file for at least 5 years.
5	6 NYCRR 201-6.4 (c) (3) (ii)	Facility	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.	The facility will submit monitoring report and deviation reports on a semi-annual basis, on or before January 30th and July 30th of each calendar year.
6	6 NYCRR 201-6.4 (e)	Facility	Requirements for compliance certifications with terms and conditions contained in this facility permit include the conditions listed in the condition.	The facility will submit the compliance certification on an annual basis on or before January 30th of each year for the previous calendar year.
7	6 NYCRR 202-2.1	Facility	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	The facility will submit an annual emission statement by April 15th of each year for actual air emissions from the previous calendar year.

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8	6 NYCRR 202-2.5	Facility	(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	Records of all emission statements submitted to the Department, along with all calculations and data will be maintained by Greenidge for at least five years.
9	6 NYCRR 215.2	Facility	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.	The facility's operational procedures prevent open-burning.
10	6 NYCRR 200.7	Facility	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.	The facility will perform maintenance on all pollution control equipment in accordance with manufacturer's specifications.
11	6 NYCRR 201-1.7	Facility	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.	The facility has operational procedures in place to demonstrate compliance.
12	6 NYCRR 201-1.8	Facility	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.	The facility has operational procedures in place to demonstrate compliance.

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13	6 NYCRR 201-3.2 (a)	Facility	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.	Records for all exempt emission sources are kept and stored onsite for five years.
14	6 NYCRR 201-3.3 (a)	Facility	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.	Records for all trivial emission sources are kept and stored onsite for five years.
15	6 NYCRR 201-6.4 (a) (4)	Facility	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.	The facility maintains all necessary records for claiming compliance and will provide them to the Department upon request.

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16	6 NYCRR 201-6.4 (a) (8)	Facility	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.	Greenidge will grant access to the premises and any records kept under this permit to the Department or an authorized representative upon request.
17	6 NYCRR 201-6.4 (f) (6)	Facility	Changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.	The facility will notify the Department of any operating changes.
18	6 NYCRR 202-1.1	Facility	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.	The facility, when requested by the Department, will submit reports of measured emissions within the required time frames.

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19	40 CFR Part 68	Facility	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.	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 facility will submit a compliance schedule for meeting the requirements of 40 CFR 68. Currently there are no chemicals on site that meet this requirement.
20	40CFR 82, Subpart F	Facility	The permittee shall comply with all applicable provisions of 40 CFR Part 82.	The permittee complies with all applicable provisions of 40 CFR Part 82. There are no ODS on site in appliance in quantities that meet this requirement.
21	6 NYCRR Subpart 201-6	Facility	The facility maintains several emission units.	The facility maintains several emission units.
22	6 NYCRR 201-6.4 (d) (4)	Facility	Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually and 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.	The facility will submit progress reports detailing dates that activities, milestones and compliance are achieved consistent with applicable compliance schedule.

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23	6 NYCRR Subpart 201-7	Facility	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	Greenidge continually monitors the heat input of biomass material and natural gas. Feed rates are determined by utilizing fuel analyses, certificates of analysis and metering records for natural gas and biomass. The data will be reported on a quarterly basis through ECMPS.
25	6 NYCRR 225-1.2 (h)	Facility	Owners and/or operators of stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications. Data collected must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period.	The facility will only purchase ultra-low sulfur diesel (ULSD) fuel for use on site and maintains records of purchases.
26	6 NYCRR 225-1.5 (c)	Facility	Measurements must be made daily of the rate of each fuel fired. The gross heat content and ash content of each fuel fired must be determined at least once each week. In the case of stationary combustion installations producing electricity for sale, the average electrical output and the hourly generation rate must also be measured. Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.	The facility measures the gross heat content, ash content, average electrical output and hourly generation rate of each fuel fired. This data will be summarized and provided to the Department on a semi-annual basis. The facility will retain these records for 5 years. When firing natural gas, fuel flow and heat input is monitored and calculated via the DAHS.

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27	6 NYCRR 230.5 (a)	Facility	The owner and/or operator of any gasoline dispensing site must maintain records showing the sum of all gasoline deliveries during the previous 12 consecutive months. The appropriate Stage I and Stage II vapor collection systems must be in place prior to any site exceeding the 120,000 gallons in annual throughput. These records must be maintained at the site for a period of five years and be made available to Department representatives on request during normal business hours.	The Greenidge facility will maintain records showing the quantity of all gasoline delivered to the facility.
28	6 NYCRR 231-5.5	Facility	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	Greenidge surrendered 177 tons of NOx Emission Reduction Credits (ERCs) from an approved source to offset 153.8 tons of NOx emissions associated with the issuance of the initial Title V Permit for the facility.

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<table>
<tr><th>Previous Condition Number</th><th>Applicable Requirement</th><th>Permit Level</th><th>Description of Requirement</th><th>Methods used to determine compliance</th></tr>
<tr><td>29</td><td>6 NYCRR 231-7.5</td><td>Facility</td><td>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, emergency diesel fire pump, and natural gas heater shall be calculated as specified elsewhere in this permit.</td><td>Reports of CO2e emissions will be calculated and submitted to EPA on a quarterly and semi-annual basis.</td></tr>
<tr><td>30</td><td>6 NYCRR 231-7.5</td><td>Facility</td><td>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, ~~emergency diesel fire pump,~~ and natural gas heater.</td><td>Control equipment and compliance monitoring through CEMS satisfies this requirement. Reports of NOx emissions will be submitted to EPA and NYSDEC on a quarterly and semi-annual basis, respectively.</td></tr>
<tr><td>31</td><td>6 NYCRR 231-7.5</td><td>Facility</td><td>Facility-wide greenhouse gas emissions are limited to the following emissions limits in the table below. This facility wide limit includes the CO2e emissions from Boiler #6, emergency diesel generator~~, emergency diesel fire pump~~, and natural gas heater.

<table><tr><th>Permit Year</th><th>Actual Emissions Limit (tons of CO2e/year)</th></tr></table></td><td>Control equipment and compliance monitoring through CEMS satisfies this requirement. Reports of CO2e emissions will be submitted to EPA on an annual, semi-annual basis, and quarterly basis.</td></tr>
</table>

Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
			PY1 475,683.48 PY2 475,683.48 PY3 428,115.13 PY4 380,426.78 PY5 358,071.27 Emissions limits based on a 12-month rolling average to be calculated on the 12th month of the year through the 11th month of the following year. During years 3 and 4, to the extent that the Facility is called upon to provide power to the grid above the number of megawatts (MW) it provided to the grid in June 2022, the emissions associated with the increased MWs shall not count towards the emissions limits in Permit Years 3 and 4. In no event, however, will the Facility's emission in Permit Years 3 and 4 exceed the actual emissions limit for the immediately preceding Permit Year. Greenidge will promptly notify the Department of each instance the Facility is called upon to address reliability concerns, record the amount of power supplied to the grid for each instance and the emissions associated with each instance, and report all such information to the Department on a regular basis. For calculating the actual tons of CO_2e 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 CO_2e of CH_4 and N_2O. For the purposes of showing compliance with the GHG BACT emission limits, the CH_4 and N_2O 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 CO_2e from the emergency diesel generator, ~~emergency diesel fire pump,~~ and natural gas heater shall be calculated as specified elsewhere in this permit.	

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32	40CFR 63, Subpart A	Facility	Emission Unit: GXEMPT Process: DFP Emission Unit: GXEMPT Process: EGN 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.	Greenidge will comply with the MACT requirements laid out in the following table: 40 CFR Subpart ZZZZ Table 8 [§63.6665] that includes performance testing, monitoring, recordkeeping, and reporting requirements.
33	40CFR 63, Subpart ZZZZ	Facility	Emission Unit: GXEMPT Process: DFP Emission Unit: GXEMPT Process: EGN The Department has not accepted delegation of 40 CFR Part 63 Subpart ZZZZ. Any questions concerning compliance and/or enforcement of this regulation should be referred to USEPA. Should the Department decide to accept delegation of 40 CFR Part 63 Subpart ZZZZ during the term of this permit, enforcement of this regulation will revert to the Department as of the effective date of delegation.	Greenidge understands that the Department has not accepted delegation of this rule, and all inquiries for this requirement are directed to the USEPA.

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34	40CFR 63, Subpart ZZZZ	Facility	This requirement applies to Emission Unit G-XEMPT Process EGN ~~and DFP~~ Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ. The facility is required to comply with the following conditions for the Emergency Generator ~~and the Diesel Fire Pump~~: The existing emergency generator is comprised of a compression ignition (CI) stationary reciprocating internal combustion engine fired by Ultralow Sulfur Diesel (ULSD) fuel oil # 2, rated at 375 horsepower hour (HP). ~~The existing emergency diesel fire pump engine is comprised of a compression ignition (CI) stationary reciprocating internal combustion engine fired by ULSD fuel oil # 2 and rated at 276 HP.~~	The facility will conduct the maintenance, recordkeeping and reporting required by this Subpart. The diesel fire pump engine was removed from the Facility on October 14, 2019; therefore, this requirement is no longer applicable.
35	40 CFR Part 98	Facility	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.	Greenidge understands and complies with 40 CFR Part 98 and the requirements of subpart A and all applicable subparts of 40 CFR Part 98.

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36	6 NYCRR Subpart 201-6	Emission Unit	The Facility maintains several emission units.	The Facility maintains several emission units as identified in this permit condition.
37	6 NYCRR Subpart 201-6	Emission Unit	The Facility performs authorized processes for the emission units.	The Facility performs authorized processes for the emission units.
38	6 NYCRR Subpart 201-7	Emission Unit: G-00004	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 The Permittee is avoiding applicability of Non-Attainment regulations to the VOC emissions resulting from the facility because the potential to emit of VOC (including formaldehyde) was estimated to be less than 50 tpy. To demonstrate that the actual VOC emissions (including formaldehyde emissions) would not exceed the NSR applicability threshold, the Permittee shall conduct an initial compliance performance within 180 days of the beginning of commercial production of power to quantify the VOC and formaldehyde emissions, but no later than 180 days after initial startup of Boiler #6.	Process monitoring and recordkeeping will be used demonstrate that PTE does not exceed 50 tpy of VOC emissions. Reports will be submitted to the Department annually. Records will be kept for at least five (5) years. Stack testing was performed beginning on July 16th, 2019 that demonstrated compliance with this 50 tpy limit.
39	6 NYCRR Subpart 201-7	Emission Unit: G-00004	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.	Process monitoring and recordkeeping using CEMS demonstrates that PTE does not exceed 39 tpy of SO2 emissions. Reports will be submitted to the Department annually. Records will be kept for at least five (5) years.

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40	6 NYCRR 227-1.3 (a)	Emission Unit: G-00004	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).	The facility uses a continuous opacity monitor (COM) to ensure compliance with the 20 percent opacity limit except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average
42	6 NYCRR 231-5.4	Emission Unit: G-00004	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.	Emissions of NOx from Emission Point 00004 shall not exceed the LAER limit of 146.8 tons per year, on a rolling 12-month basis. Greenidge shall maintain and operate a continuous emission monitoring system (CEMS) to monitor the NOx emissions at the stack. Records shall be maintained at the facility for a minimum of five years.
43	6 NYCRR 231-5.4	Emission Unit: G-00004	During approximately the first 180 operating days (the "commissioning phase") the facility will continue operation of the existing SCR catalyst in operation at the time of plant protective layup (3/18/11). When the commissioning phase is complete the facility will install new SCR catalyst and will notify the Department within 30 days of the date of installation of the new catalyst.	The catalyst was changed October 16th and the DEC was informed via mail on November 6th, 2017. Greenidge has fulfilled this permit condition.

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44	6 NYCRR 231-7.5	Emission Unit: G-00004	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. In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 151.7 tpy limit firing natural gas and/or co-firing natural gas and biomass, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new adjusted) annual limit of total PM10 emission limits cannot exceed 205 tpy.	Control equipment and compliance with permit terms ensures that PM-10 emissions do not exceed 0.00825 lb/MMBtu. Reports of PM-10 emissions will be submitted on a semi-annual basis. The July 16th, 2019 RATA verified the actual emission rate of <0.0004 lb/MMBtu
45	6 NYCRR 231-7.5	Emission Unit: G-00004	PM2.5 emissions shall not exceed 151.7 tons per year on a 12 month rolling total including all startups, shutdowns, malfunctions and upsets. In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 151.7 tpy limit, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1 hour sampling period for each test run). The new (adjusted) annual limit of total PM2.5 emission limits cannot exceed 205 tpy. The exceedance of the PM2.5 limit of 205 tpy that may occur during the initial compliance performance testing shall not be considered violations of the permit conditions. Any adjustment to the PM10 emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11.	Control equipment and compliance with permit terms ensures that PM-2.5 emissions do not exceed 0.00825 lb/MMBtu. Reports of PM-2.5 emissions will be submitted on a semi-annual basis. The July 16th, 2019 RATA verified the actual emission rate of <0.0004 lb/MMBtu. Process monitoring and recordkeeping using CEMS demonstrates that PTE does not exceed 151.7 tpy of PM2.5 emissions.

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46	6 NYCRR 231-7.5	Emission Unit: G-00004	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).	Control equipment and compliance with permit terms satisfy this requirement. Emissions will be reported via EDR.
47	6 NYCRR 231-7.5	Emission Unit: G-00004	The facility will develop and implement a Leak Detection and Repair (LDAR) Program, to be conducted annually, for the above ground piping on the facility property to minimize fugitive Greenhouse Gases (GHGs) from the natural gas pipeline system Greenidge will continuously monitor and minimize, to the extent practicable, its station parasitic load.	Meters are in place to monitor for leaks throughout the process.
48	6 NYCRR 231-7.5	Emission Unit: G-00004	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).	Emissions of carbon dioxide do 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. In order to demonstrate compliance with this requirement, Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the Carbon Dioxide emissions at the stack. Records are maintained at the facility for a minimum of five years.

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49	6 NYCRR 231-7.6	Emission Unit: G-00004	Total filterable particulate emissions shall not exceed 48.9 tons per 12-month rolling total, rolled monthly including all startups, shutdowns, malfunctions and upsets. After an initial stack test (comprised of 3 test runs of not less than 1-hour sampling period per test run) to demonstrate compliance, within 180 days of the beginning of commercial production of power, but no later than 180 operating days after initial startup of Boiler #6. Repeat stack testing will be required annually thereafter. For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2.	Total particulate emissions do not exceed the BACT limit of 48.9 tons per year, on a rolling monthly basis. The July 16th, 2019 RATA verified the emission rate of <0.0007 lb/MMBtu which results in an annual PTE of 3.42 tons while operating at full load for the entire year. Subsequent stack tests will be performed once per permit term thereafter. Records are maintained at the facility for a minimum of five years.
50	6 NYCRR 231-7.6	Emission Unit: G-00004	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.	Emissions of CO do not exceed the BACT of 464.8 tons per year, on a monthly rolling basis. In order to demonstrate compliance with this requirement, Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the CO emissions at the stack. Records are maintained at the facility for a minimum of five years.

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51	40CFR 63, Subpart DDDDD	Emission Unit: G-00004	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.	Heat input and fuel combustion is constantly monitored to ensure that natural gas consumption account for at least 85% of fuel fired on an annual heat input basis. Reports will be submitted semi-annually. Greenidge only fired natural gas in during this reporting period, thereby meeting the 85% natural gas consumption requirement.
52	40CFR 72.6(a)(1), Subpart A	Emission Unit: G-00004	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.	The Title IV Acid Rain Permit was issued and incorporated as part of the Title V Air Operating Permit.
53	40CFR 75.10(a), Subpart B	Emission Unit: G-00004	The owner or operator shall measure opacity and all SO_2, NOx, CO, NH3, and CO_2 emissions for each affected unit.	Greenidge has continuous emissions monitors systems (CEMS) in place to measure SO_2, NOx, CO, NH_3, and CO_2 emissions. The USEPA has approved the use of alternate data substitution in accordance with Part 75 via letter dated May 30, 2018.
54	40CFR 75.10(b), Subpart B	Emission Unit: G-00004	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).	All CEMS meet the equipment, installation and performance specifications of Appendix A of this part. Furthermore, all CEMS will be maintained according to the quality control and quality assurance procedures in Appendix B of this part. SO_2 data is recorded in units of lb/hr and NOx data is recorded in units of lb/MMBtu.

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55	40CFR 75.10(c), Subpart B	Emission Unit: G-00004	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.	Greenidge maintains records of input/output via DAHS.
56	40CFR 75.10(d), Subpart B	Emission Unit: G-00004	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.	All CEMS and the opacity monitor are in operation during all periods of fuel combustion, calibration, quality assurance, and preventive maintenance performed. Greenidge, through proper maintenance and calibration of monitoring devices, ensures that all CEMS are capable of completing a minimum of one cycle of operation for each successive 15-minutes interval and collects the required number of data points.

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57	40CFR 75.13(a), Subpart B	Emission Unit: G-00004	The owner or operator shall meet the general operating requirements in §75.10 for a CO_2 and NH_3 continuous emissions monitoring system and flow monitoring system for each affected unit.	The facility certifies, operates and maintains the CO_2 and NH_3 CEMS in compliance with the operating requirements of 40 CFR 75-B.10.
58	40CFR 75.20, Subpart C	Emission Unit: G-00004	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.	Greenidge will notify the DEC and EPA updates regarding changes to CEMS or COMS in accordance with §75.21

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59	40CFR 75.64(a), Subpart G	Emission Unit: G-00004	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) for 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.	The designated representative reports to the EPA, on a quarterly basis, hourly data required in 40 CFR 75.50 through 75.52, opacity data, tons of SO_2 emitted, average NOx emission rate, cumulative NOx emission rate for the calendar year, tons of CO_2 emitted, cumulative CO_2 emissions for the calendar year, total heat input (million Btu) and cumulative heat input for the calendar year.

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60	40CFR 97.406, Subpart AAAAA	Emission Unit: G-00004	(1) 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. 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.	The facility has a designated representative for each TR NOx Annual facility and unit that will ensure compliance 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. The emissions data are used to calculate allocations of TR NOx Annual allowances and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions.

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61	40CFR 97.506, Subpart BBBBB	Emission Unit: G-00004	(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.513 through 97.518 of Subpart BBBBB. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information. (2) The facility, and the designated representative, of each TR NOx Ozone Season source (facility) and each TR NOx Ozone Season Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535 of Subpart BBBBB and subpart H of part 75 of this chapter. 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 Ozone Season allowances and to determine compliance with the TR 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 TR NOx Ozone Season facility and each TR NOx Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NOx Ozone Season allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Ozone Season Units at the facility.	The facility has a designated representative for each TR NOx Ozone Season facility and unit that ensures compliance with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535 of Subpart BBBBB and subpart H of part 75 of this chapter. The emissions data determined is used to calculate allocations of TR NOx Ozone Season allowances and to determine compliance with the TR NOx Ozone Season emissions limitation and assurance provisions.

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62	40CFR 97.606, Subpart CCCCC	Emission Unit: G-00004	(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. (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. (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.	The facility has a designated representative for each TR SO2 Group 1 facility and unit that ensures compliance 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. The emissions data determined is 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.
1-2	6 NYCRR Subpart 201-6	Emission Unit: G-00004 Process: P65	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.	NYSDEC approved adjustment to 20ppmvd in permit Mod 1 effective April 25.
64	6 NYCRR 231-5.4	Emission Unit: G-00004 Process: P65	NOx emissions shall not exceed 0.0365 lb/MMBtu on a 1 hr block basis while firing natural gas only. 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.	Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the NOx emissions at the stack. Records are maintained at the facility for a minimum of five years.

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65	6 NYCRR 231-7.5	Emission Unit: G-00004 Process: P65	While firing natural gas only emissions of PM-2.5 from Unit G-00004 must not exceed 0.00825 lb/MMBtu. Based on initial and annual stack test results in 2017, 2018, and 2019 demonstrates 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).	Control equipment and compliance with permit terms ensures that PM-2.5 emissions do not exceed 0.00825 lb/MMBtu. Reports of PM-2.5 emissions are submitted on a semi-annual basis. The July 16th, 2019 RATA verified the actual emission rate of $PM_{2.5}$ to be <0.0006 lb/MMBtu.

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1-3	6 NYCRR 231-7.6	Emission Unit: G-00004 Process: P65	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, 100ppm or 0.075 lb CO/MMBtu is BACT while complying with NOx LAER.	To demonstrate compliance with this requirement, Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the CO emissions at the stack. Records are maintained at the facility for a minimum of five years.

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69	6 NYCRR Subpart 201-6	Emission Unit: G-00004 Process: P75	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.	The Greenidge facility will maintain records showing the quantity and demonstrating loads meet biomass specifications listed in the permit of all biomass delivered to the facility.
70	6 NYCRR 231-5.4	Emission Unit: G-00004 Process: P75	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.	Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the NOx emissions at the stack. Records are maintained at the facility for a minimum of five years.

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71	6 NYCRR 231-5.4	Emission Unit: G-00004 Process: P75	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 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. This limit is more stringent than the NOx RACT requirements of 6 NYCRR Part 227-2.	Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the NOx emissions at the stack. Records are maintained at the facility for a minimum of five years.

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75	6 NYCRR 231-7.6	Emission Unit: G-00004 Process: P75	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. Visual inspections shall be conducted as soon as practical, but no later than one hour after an 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.	All leak detectors and bag leak detection system will be in operation during all periods of biomass fuel combustion, calibration, quality assurance, and preventive maintenance performed. Greenidge, through proper maintenance and calibration of monitoring devices, ensures that all Bag Leak Detection System are equipped to continuously record relative particulate matter emissions and have an alarm system. Records are maintained at the facility for a minimum of five years.
76	6 NYCRR 231-7.6	Emission Unit: G-00004 Process: P75	The Permittee shall use the fabric filters baghouse at all times biomass is fired in Boiler #6. Baghouse 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.	Fabric filter baghouse will be in operation during all periods of biomass fuel combustion, calibration, quality assurance, and preventive maintenance performed. Pressure drop values will be monitored during baghouse operation. As needed, the facility will report baghouse differential pressure exceedances to the Department quarterly. Records are maintained at the facility for a minimum of five years.

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77	6 NYCRR 231-7.6	Emission Unit: G-00004 Process: P75	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 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.	To demonstrate compliance with this requirement, Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the CO emissions at the stack. Records are maintained at the facility for a minimum of five years.
78	6 NYCRR 231-7.6	Emission Unit: G-00004 Process: P75	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.	To demonstrate compliance with this requirement, Greenidge maintains and operates a continuous emission monitoring system (CEMS) to monitor the CO emissions at the stack. Records are maintained at the facility for a minimum of five years.

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79	6 NYCRR Subpart 201-6	Emission Unit: G-00005	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 conditions are beyond what Part 212 would typically require.	The Greenidge facility will develop protocols prior to biomass co-firing to ensure compliance with co-firing or biomass requirements.
80	6 NYCRR 212-1.6 (a)	Emission Unit: G-00005	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.	Greenidge uses a COM system to monitor opacity.

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81	6 NYCRR Subpart 231-7	Emission Unit: G-00005	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 Greenidge facility will utilize fabric filters and bin vent filters for biomass handling.
82	6 NYCRR Subpart 231-7	G-FABAH	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.	The Greenidge facility will comply with BACT limits for ash handling, storage, and disposal
83	6 NYCRR Subpart 231-7	G-FUGTV	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 Greenidge facility will comply with BACT limits for biomass handling, storage, and disposal systems, fly and bottom ash handling, storage, and disposal, and truck traffic.

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Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
84	6 NYCRR Subpart 231-7	G-XEMPT	Visible emissions from Emergency Generator~~, Fire Pump~~ and Natural Gas Heater combustion source~~s~~ shall not exceed exhibit greater than 20% opacity (based on six minute average) except for one six-minute period per hour of no more than 27% opacity. This is a BACT requirement. Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the emergency generator~~, emergency fire pump~~ and natural gas heater. The Permittee shall conduct performance testing for visible emissions on an annual basis.	Visible emissions testing will be conducted for the Emergency Generator and Natural Gas heater during this reporting period.
85	6 NYCRR Subpart 231-7	G-XEMPT	Determination of actual GHG emissions resulting from the emergency generator~~, emergency fire pump~~ and natural gas heater: The GHG global warming potentials and the default CO_2, CH_4 and N_2O emission factors used for the calculation of the GHG emissions (as CO_2e) resulting from the emergency diesel generator~~, and the emergency fire pump~~ and natural gas heater shall be equal with those contained in 40 CFR Part 98. The heating values of the ULSD fuel oil No. 2, and natural gas used for the calculations of the GHG emissions shall equal the following: 0.138 MMBtu/gallon for ULSD fuel oil No. 2; 1,020 BTU/scf for natural gas; The GHG emissions (as CO_2e) for the emergency generator~~, the emergency generator fire pump~~ and natural gas heater shall be determined separately by calculations based on the: Actual measured ULSD fuel oil No.2 and natural gas consumption rates; CO_2, CH_4 and N_2O emission factors and fuel heating value specified in this permit; GHG emissions (as CO_2e) shall be determined by adding the CO_2, CH_4, and N_2O emissions.	Greenidge follows the calculation methodology identified in Part 98 for its GHG reporting obligations.

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~~86~~	~~6 NYCRR Subpart 231-7~~	~~Emission Unit: G-XEMPT Process: DFP~~	~~The Permittee shall operate an emergency diesel fire pump that has a nameplate capacity that shall not exceed a maximum power output of 276 brake horse power (BHP). The Permittee shall maintain documentation that would demonstrate that the emergency diesel fire pump was installed on or before 2001.~~	~~The diesel fire pump was removed from the Facility on October 14, 2019~~
87	6 NYCRR Subpart 231-7	Emission Unit: G-XEMPT Process: EGN	The following provides a description and compliance requirements for the emergency diesel generator. Compliance demonstration will be made available for review upon request.	The emergency generator complies with all requirements.
88	6 NYCRR Subpart 231-7	Emission Unit: G-XEMPT Process: NGH	The Permittee shall install and operate a natural gas heater that has a nameplate that shall not exceed 4 117 lbs/MMBtu . 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).	Greenidge operates a natural gas heater with a maximum heat input rate of less than 4 117 lbs/MMBtu and only combusts pipeline quality natural gas. Proper operation and maintenance ensures that BACT and LAER emission limitations are not exceeded.
Item A	6 NYCRR 201-1.5	State Only: Facility Level	An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.	In the event of an emergency Greenidge will follow the procedures as defined in this condition.

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Item B	6 NYCRR Part 201-5	State Only: Facility Level	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.	Greenidge operates the facility in accordance with all criteria, emission limits, terms, conditions, and standards in the permit.

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89	ECL 19-0301	State Only: Facility Level	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	Greenidge conducts operations to keep emissions of the listed contaminants within the permitted limits.

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Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
90	6 NYCRR 201-1.4	State Only: Facility Level	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. The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source.	Greenidge keeps records of all equipment malfunctions, maintenance and start-up/shutdown activities that could possibly result in exceedance of an emission standard.
91	6 NYCRR 242-1.4 (b)	State Only : Facility	(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.	The facility has not applied for an enforceable permit condition restricting the facility's electrical output to the electric grid to less than 10 percent.
92	6 NYCRR 242-1.5	State Only : Facility	The owners and operators of a CO_2 budget source that has excess emissions in any control period shall: (1) forfeit the CO_2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO_2 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).	Greenidge did not exceed its CO_2 budget allowances for this reporting period. Greenidge understands that it will forfeit CO_2 allowances and pay any fines or penalties in the event of excess emissions.

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Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
93	6 NYCRR 242-1.5	State Only : Facility	The owners and operators and, to the extent applicable, the CO_2 authorized account representative of each CO_2 budget source and each CO_2 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 unit.	The recordkeeping and report provisions of 6 NYCRR 242-8 will ensure Greenidge's compliance with this rule.
94	6 NYCRR 242-1.5	State Only : Facility	The owners and operators of the CO_2 budget source and each CO_2 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.	The facility will keep on site at the source each of the following documents for a period of 10 years from the date the document is created. Reports are submitted semi-annually. (i) The account certificate of representation for the CO_2 authorized account representative for the source and each CO_2 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 (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 CO_2 Budget Trading Program.
95	6 NYCRR Subpart 242-4	State Only : Facility	For each control period in which a CO_2 budget source is subject to the CO_2 requirements of subdivision 242-1.5(c) of this Part, CO_2 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.	The facility's CO_2 authorized account representative submits to the department by March 1st a compliance certification report.

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96	6 NYCRR 242-8.5	State Only : Facility	General provisions. The CO_2 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.	The facility's CO_2 authorized account representative submits quarterly reports to the department through the EPA's ECMPS database.
1-4	6 NYCRR 201-5.4	State Only : Emission Unit	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 required air pollution control equipment is up to temperature and operational. Shutdown is defined as any planned cessation of electricity generation while firing natural gas only.	The facility maintains records of emissions during SU/SD events.
1-5	6 NYCRR 201-5.4	State Only : Emission Unit	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 Emission Unit G-00004 have occurred. Startup (SU) is defined as the period beginning with the initial firie of Unit G-00004 and ending at the time when the required air pollution control equipment is up to temperature and operational. Shutdown (SD) is defined as any planned cessation fo electricity generation.	The Startup/shutdown plan was submitted on 05/31/2018 and approved on or about 11/01/2018.

UPDATED SHORT ENVIROMENTAL ASSESSMENT FORM

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. **The applicant or project sponsor is responsible for the completion of Part 1.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:

Greenidge Generating Station Title V Renewal Application (8-5736-00004)

Project Location (describe, and attach a location map):

590 Plant Road, Dresden, New York, 14441

Brief Description of Proposed Action:

This proposed action is the NYSDEC Title IV and Title V permit renewal application (8-5736-00004) for the Greenidge Generating Station.

Name of Applicant or Sponsor:	Telephone: (315) 536-3423
Dale Irwin, Greenidge Generation Holdings LLC	E-Mail: dirwin@greenidge.com

Address:		
PO Box 187		
City/PO:	State:	Zip Code:
Dresden	New York	14441

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Title V Renewal - NYSDEC	☐	☑

3. a. Total acreage of the site of the proposed action? 153 acres
   b. Total acreage to be physically disturbed? 0 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 296 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☑ Rural (non-agriculture) ☑ Industrial ☐ Commercial ☐ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☐	☑
b. Consistent with the adopted comprehensive plan?	☐	☐	☑

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☐	☑

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☑	☐

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: _____ _____	☐	☑

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: _____ _____	☐	☑

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☐	☑
Project will not impact adjacent cultural resources b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☐	☑

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☑ Shoreline ☑ Forest ☑ Agricultural/grasslands ☐ Early mid-successional

☐ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☐	☑
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☑	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☑
If Yes, briefly describe:		
No changes to stormwater discharge		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☑	☐
If Yes, explain the purpose and size of the impoundment:		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	☐	☑
If Yes, describe:		
SW ID 62S70 - inactive landfill will not be impacted by this project		
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	☐	☑
If Yes, describe:		
State superfund program site code 862006 - adjoining property will not be impacted		

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: Dale Irwin Date: Nov 7, 2025

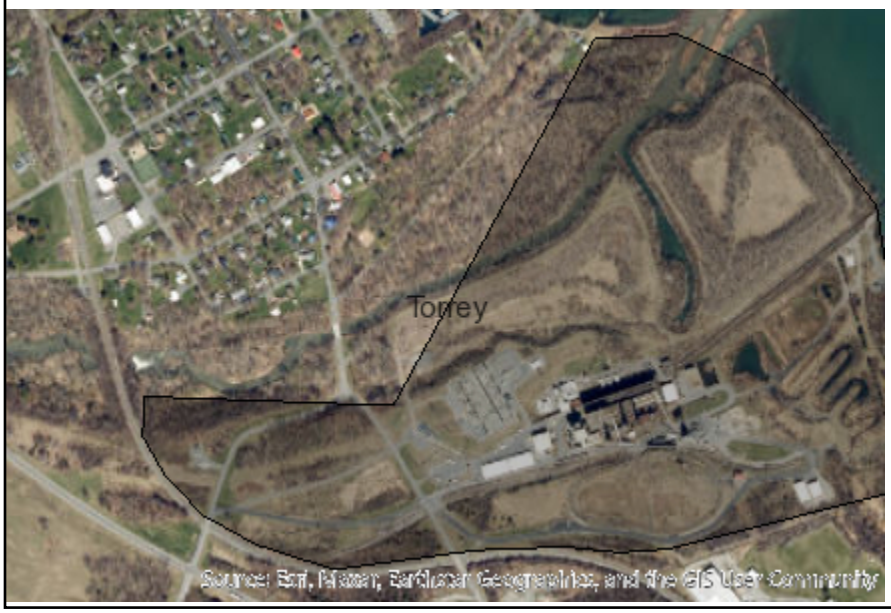
Signature Dale Irwin Title: President

box SIGN 4Z7KRJLX-4P6Q5R5K

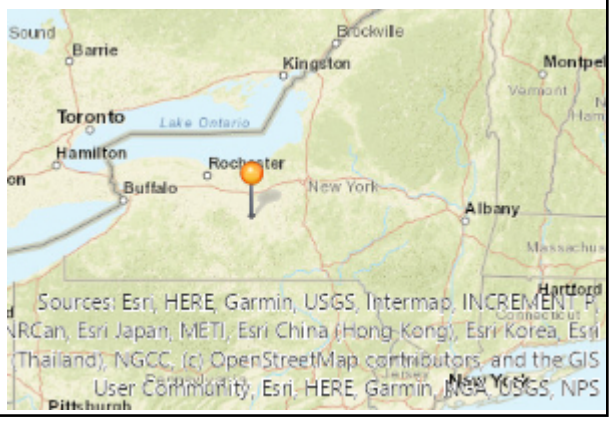
PRINT FORM

EAF Mapper Summary Report

Thursday, October 16, 2025 8:08 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources to confirm data provided by the Mapper or to obtain data not provided by the Mapper.



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	Yes
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	Yes