



Transmitted via electronic mail & US Postal Service Delivery
thomas.haley@dec.ny.gov

5 March 2021

Mr. Thomas Haley
Regional Administrator, Division of Environmental Permits
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Reference: 0576809

Subject: Title IV Acid Rain Permit and Title V Air Operating Permit Renewal Application;
Greenidge Generating Station; Dresden, New York; DEC ID No. 8-5736-00004

Dear Mr. Haley:

On behalf of Greenidge Generation LLC (Greenidge), ERM Consulting & Engineering, Inc. (ERM) is pleased to submit an electronic copy (in Portable Document Format, pdf) and two hardcopies of the combined Title IV and Title V Air Operating Permit Renewal Application package for the Greenidge Generating Station, located in Dresden, New York. This letter and enclosed attachments are being submitted consistent with 6 NYCRR 201-6.2(a)(4), which requires the submittal of a renewal application at least 180 days prior to the Title V Permit expiration date (6 September 2021). As you review the application package, you will find the following major sections:

- Section 1: An Emission Unit Matrix that succinctly summarizes the architecture of the application submittal and the processes/equipment/control devices employed at the Greenidge Station;
- Section 2: The Title IV and Title V Air Operating Permit Application forms that provide the detailed forms, applicable requirements, emission limits, and compliance demonstration methods that will be employed by the facility;
- Section 3: The List of Exempt Activities Forms that detail those sources at the Greenidge facility that are considered exempt from permitting in accordance with 6 NYCRR Part 201-3; and
- Section 4: Methods Used to Determine Compliance Form.

This renewal application is formatted to be consistent with the Division of Air Resources' Air Facility System (AFS) generated application format provided to Greenidge for use in developing this submittal. This application requests renewal of the existing permit, with only minor, non-material, revisions, which are limited to: removal of the diesel fire pump permit conditions, since the diesel fire pump has been taken out of service and removed from the Facility; and a request for minor revisions to the monitoring requirements for particulate emissions (PM-10, PM-2.5 and Particulates), which includes the use of a

flowmeter for the Facility to demonstrate continuous compliance with the existing PM-10, PM2.5 and Particulates permit conditions.

Climate Leadership and Community Protection Act (CLCPA)

In 2019, New York State passed the CLCPA, requiring the State to meet greenhouse gas emissions reductions from 1990 baseline emission levels of 40% in 2030 and 85% in 2050. While it has not yet promulgated regulations that apply to individual facilities, the New York State Department of Environmental Conservation (NYSDEC) set the statewide 1990 baseline, and the 2030 and 2050 statewide emissions levels, in its recently promulgated Part 496. Although these are statewide reduction requirements, Greenidge notes that in 1990 the facility operated on coal and had annual greenhouse gas emissions that were significantly more than they have been since the facility was converted in 2016-2017 to operate on natural gas (with up to 19% by weight biomass) and no longer operates on coal.

Greenidge understands that in the future, the NYSDEC will promulgate additional CLCPA regulations that may include requirements for individual greenhouse gas emission sources. Greenidge will comply with the applicable future CLCPA and greenhouse gas regulations promulgated by the NYSDEC.

We are available to meet with the NYSDEC staff, as needed, to review the application package and provide any additional information that the Division of Air Resources staff may require to develop the Working Copy of the Title V/IV Air Operating Permit.

We look forward to working with you and the Region 8 staff on the review of this application and the issuance of the subsequent combined Title IV/V Air Operating Permit.

Sincerely,



David T. Murtha, QEP
Consultant Director

cc: M. Wheeler, NYSDEC DAR Region 8
D. Irwin, Greenidge Generation, LLC
S. Gaston, Greenidge Generation, LLC
C. Ferry, ERM

SECTION 1: EMISSION UNIT MATRIX

**Emission Unit Matrix for
Greenidge Generating Station
Dresden, NY**

Unit ID	Unit Description	Process ID	Process Description	Source ID	Source Description	Control ID	Control Description	Emission Point ID
G-00004	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 overfire air, SNCR, and SCR to control NOx emissions, and a baghouse to control particulate emissions.	P65	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.	B0006	Boiler #6	LNB06	Low NOX burners	
						NCR06	Fuel Tech (SNCR)	
						SCR06	Selective Catalytic Reduction	
		P75	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.	B0006	Boiler #6	BAG06	Baghouse	
						LNB06	Low NOX burners	
						NCR06	Fuel Tech (SNCR)	
G00005	Miscellaneous process emission sources	BIO	Biomass handling, storage and processing	WPILE	wood storage pile			
		MIS	General process emission sources associated with Biomass (wood) handling and processing	HMILL	Hammer Mill	BAG08	unspecified bag house manufacturer	00005
G00008	Process operations associated with the aqueous urea system	P8U		TNK08	Urea storage tank			
GFABAH	This emission unit includes all process emission sources and emission points of the fly ash and bottom ash handling, storage, and disposal system.	FBA	Fly Ash and Bottom ash handling	VENT1	Ash Silo Vent	BAG10	Bag house	00013
				VENT2	Ash Silo Vent	BIN01	Bag house	00012
				VENT3	Ash Silo Vent	BIN02	Bag house	00011
				VENT4	Ash Silo Vent	BIN03	Bag house	00010
				VENT5	Ash Silo Vent	BIN04	Bag house	00009
GFUGTV	This emission unit includes all emission sources and activities at the facility that have the potential to generate fugitive particulate emissions	FUG	Miscellaneous fugitive sources.	FUG01	Miscellaneous fugitive emissions			00017
		GXEMPT	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 two processes associated with this emission unit: Process EGN: Emergency Generator Process DFP: Diesel Fire Pump Process NGH: Natural Gas Heater	DFP	Diesel fire pump	DFP04	Diesel fire pump	00022
				EGN	Emergency Generator	EGN01	Diesel emergency generator	00021
				NGH	Natural gas heater	NGH01	Natural Gas Heater	00023

**SECTION 2: TITLE IV AND TITLE V AIR OPERATING PERMIT APPLICATION
FORMS**



Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ☒ for ARP permit renewal

STEP 1

Identify the facility name,
State, and plant (ORIS) code.

GREENIDGE GENERATION LLC	NEW YORK	2527
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every
affected unit at the affected
source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
6	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

STEP 3

Permit Requirements

Read the standard requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

STEP 3, Cont'd.

Excess Emissions Requirements

- (1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

**Read the
certification
statement, sign,
and date.**

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. 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. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Dale Irwin	
Signature <i>DALE IRWIN</i>	Date 3/5/2021



Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the Title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the Title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the Title V permitting authority.

STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-860@eia.gov.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the Title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a Title V permit, or such longer time as provided for under the Title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate Title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Clean Air Markets Hotline at (202) 343-9620.

Paperwork Burden Estimate

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2060-0258). Responses to this collection of information are mandatory (40 CFR 72.30 and 72.31). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to be 8 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.



Certificate of Representation

For more information, see instructions and 40 CFR 63 subpart UUUUU, 72.24, 96.113, 96.213, 96.313, 97.113, 97.213, 97.313, 97.416, 97.516, 97.616, 97.716, or a comparable state regulation, as applicable.

This submission is: ☒ New ☐ Revised (revised submissions must be complete; see instructions)

STEP 1
Provide
information for
the plant.

Plant Name GREENIDGE GENERATION LLC		NEW YORK State	2527 Plant Code
County Name YATES			
Latitude 42.6789		Longitude -76.9483	

STEP 2
Enter
requested
information for
the designated
representative.

Name DALE IRWIN		Title	
Company Name GREENIDGE GENERATION LLC			
Mailing Address 590 PLANT ROAD	City DRESDEN	State NY	Zip Code 14441
Phone Number (315) 536-3423	Fax Number		
E-mail Address DIRWIN@GREENIDGELLC.COM			

STEP 3
Enter
requested
information for
the alternate
designated
representative.

Name		Title	
Company Name			
Mailing Address	City	State	Zip Code
Phone Number	Fax Number		
E-mail Address			

UNIT INFORMATION

STEP 4: Complete a separate page 2 for each unit located at the plant identified in STEP 1 (i.e., for each boiler, simple cycle combustion turbine, or combined cycle combustion turbine) Do not list duct burners. Indicate each program to which the unit is subject, and enter all other unit-specific information. See instructions for more details.

Applicable Program(s): ☒ Acid Rain ☒ CAIR NO_x Annual ☒ CAIR SO₂ ☒ CAIR NO_x Ozone Season ☐ MATS
☐ TR NO_x Annual ☐ TR NO_x Ozone Season ☐ TR SO₂ Annual

Unit ID# 6	Unit Type T	Source Category ELECTRIC UTILITY	Generator ID Number (Maximum 8 characters)	Acid Rain Nameplate Capacity (MWe)	CAIR/ MATS/Transport Rule Nameplate Capacity (MWe)
			4	105.9	105.9
Date unit began (or will begin) serving any generator producing electricity for sale (including test generation) (mm/dd/yyyy): 03/28/2017		Check One: Actual ☒ Projected ☐	Is this unit located in Indian Country? Check One: Yes ☐ No ☒	Has this unit ever operated at another location? Check One: Yes ☐ No ☒	
Company Name: GREENIDGE GENERATION LLC			☐ Owner ☒ Operator		
Company Name: GREENIDGE GENERATION LLC			☒ Owner ☐ Operator		
Company Name:			☐ Owner ☐ Operator		
Company Name:			☐ Owner ☐ Operator		
Company Name:			☐ Owner ☐ Operator		
Company Name:			☐ Owner ☐ Operator		

STEP 5: Read the appropriate certification statements that apply (if), sign, and date.Acid Rain Program

I certify that I was selected as the designated representative or alternate designated representative (as applicable) by an agreement binding on the owners and operators of the affected source and each affected unit at the source (i.e., the source and each unit subject to the Acid Rain Program, as indicated in "Applicable Program(s)" in Step 4).

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and each affected unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions.

I certify that the owners and operators of the affected source and each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the designated representative or alternate designated representative (as applicable) and of the agreement by which I was selected to each owner and operator of the affected source and each affected unit at the source; and

Allowances, and proceeds of transactions involving allowances, will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of allowances, allowances and proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

Clean Air Interstate Rule (CAIR) NO_x Annual Trading Program

I certify that I was selected as the CAIR designated representative or alternate CAIR designated representative (as applicable), by an agreement binding on the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source (i.e., the source and each unit subject to the CAIR NO_x Annual Trading Program, as indicated in "Applicable Program(s)" in Step 4).

I certify that I have all necessary authority to carry out my duties and responsibilities under the CAIR NO_x Annual Trading Program on behalf of the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions.

I certify that the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a CAIR NO_x unit, or where a utility or industrial customer purchases power from a CAIR NO_x unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the CAIR designated representative or alternate CAIR designated representative (as applicable) and of the agreement by which I was selected to each owner and operator of the CAIR NO_x source and each CAIR NO_x unit at the source; and

CAIR NO_x allowances and proceeds of transactions involving CAIR NO_x allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of CAIR NO_x allowances by contract, CAIR NO_x allowances and proceeds of transactions involving CAIR NO_x allowances will be deemed to be held or distributed in accordance with the contract.

Clean Air Interstate Rule (CAIR) SO₂ Trading Program

I certify that I was selected as the CAIR designated representative or alternate CAIR designated representative (as applicable), by an agreement binding on the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source (i.e., the source and each unit subject to the SO₂ Trading Program, as indicated in "Applicable Program(s)" in Step 4).

I certify that I have all necessary authority to carry out my duties and responsibilities under the CAIR SO₂ Trading Program, on behalf of the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions.

I certify that the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a CAIR SO₂ unit, or where a utility or industrial customer purchases power from a CAIR SO₂ unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the CAIR designated representative or alternate CAIR designated representative (as applicable) and of the agreement by which I was selected to each owner and operator of the CAIR SO₂ source and each CAIR SO₂ unit at the source; and

CAIR SO₂ allowances and proceeds of transactions involving CAIR SO₂ allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of CAIR SO₂ allowances by contract, CAIR SO₂ allowances and proceeds of transactions involving CAIR SO₂ allowances will be deemed to be held or distributed in accordance with the contract.

Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program

I certify that I was selected as the CAIR designated representative or alternate CAIR designated representative (as applicable), by an agreement binding on the owners and operators of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source (i.e., the source and each unit subject to the CAIR NO_x Ozone Season Trading Program, as indicated in "Applicable Program(s)" in Step 4).

I certify that I have all necessary authority to carry out my duties and responsibilities under the CAIR NO_x Ozone Season Trading Program on behalf of the owners and operators of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions.

I certify that the owners and operators of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a CAIR NO_x Ozone Season unit, or where a utility or industrial customer purchases power from a CAIR NO_x Ozone Season unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the CAIR designated representative or alternate CAIR designated representative (as applicable) and of the agreement by which I was selected to each owner and operator of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit; and

CAIR NO_x Ozone Season allowances and proceeds of transactions involving CAIR NO_x Ozone Season allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of CAIR NO_x Ozone Season allowances by contract, CAIR NO_x Ozone Season allowances and proceeds of transactions involving CAIR NO_x Ozone Season allowances will be deemed to be held or distributed in accordance with the contract.

Transport Rule NO_x Annual Trading Program

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the source and each TR NO_x Annual unit at the source.

I certify that I have all the necessary authority to carry out my duties and responsibilities under the TR NO_x Annual Trading Program on behalf of the owners and operators of the source and of each TR NO_x Annual unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions and by any order issued to me by the Administrator regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a TR NO_x Annual unit, or where a utility or industrial customer purchases power from a TR NO_x Annual unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the 'designated representative' or 'alternate designated representative', as applicable, and of the agreement by which I was selected to each owner and operator of the source and of each TR NO_x Annual unit at the source.

TR NO_x Annual allowances and proceeds of transactions involving TR NO_x Annual allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of TR NO_x Annual allowances by contract, TR NO_x Annual allowances and proceeds of transactions involving TR NO_x Annual allowances will be deemed to be held or distributed in accordance with the contract.

Transport Rule NO_x Ozone Season Trading Program

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the source and each TR NO_x Ozone Season unit at the source.

I certify that I have all the necessary authority to carry out my duties and responsibilities under the TR NO_x Ozone Season Trading Program on behalf of the owners and operators of the source and of each TR NO_x Ozone Season unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions and by any order issued to me by the Administrator regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a TR NO_x Ozone Season unit, or where a utility or industrial customer purchases power from a TR NO_x Ozone Season unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the 'designated representative' or 'alternate designated representative', as applicable, and of the agreement by which I was selected to each owner and operator of the source and of each TR NO_x Ozone Season unit at the source.

TR NO_x Ozone Season allowances and proceeds of transactions involving TR NO_x Ozone Season allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of TR NO_x Ozone Season allowances by contract, TR NO_x Ozone Season allowances and proceeds of transactions involving TR NO_x Ozone Season allowances will be deemed to be held or distributed in accordance with the contract.

Transport Rule SO₂ Annual Group 1 Trading Program

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the source and each TR SO₂ Group 1 unit at the source.

I certify that I have all the necessary authority to carry out my duties and responsibilities under the TR SO₂ Group 1 Trading Program on behalf of the owners and operators of the source and of each TR SO₂ Group 1 unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions and by any order issued to me by the Administrator regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a TR SO₂ Group 1 unit, or where a utility or industrial customer purchases power from a TR SO₂ Group 1 unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the 'designated representative' or 'alternate designated representative', as applicable, and of the agreement by which I was selected to each owner and operator of the source and of each TR SO₂ Group 1 unit at the source.

TR SO₂ Group 1 allowances and proceeds of transactions involving TR SO₂ Group 1 allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of TR SO₂ Group 1 allowances by contract, TR SO₂ Group 1 allowances and proceeds of transactions involving TR SO₂ Group 1 allowances will be deemed to be held or distributed in accordance with the contract.

Transport Rule SO₂ Annual Group 2 Trading Program

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the source and each TR SO₂ Group 2 unit at the source.

I certify that I have all the necessary authority to carry out my duties and responsibilities under the TR SO₂ Group 2 Trading Program on behalf of the owners and operators of the source and of each TR SO₂ Group 2 unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions and by any order issued to me by the Administrator regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, a TR SO₂ Group 2 unit, or where a utility or industrial customer purchases power from a TR SO₂ Group 2 unit under a life-of-the-unit, firm power contractual arrangement, I certify that:

I have given a written notice of my selection as the 'designated representative' or 'alternate designated representative', as applicable, and of the agreement by which I was selected to each owner and operator of the source and of each TR SO₂ Group 2 unit at the source.

TR SO₂ Group 2 allowances and proceeds of transactions involving TR SO₂ Group 2 allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, except that, if such multiple holders have expressly provided for a different distribution of TR SO₂ Group 2 allowances by contract, TR SO₂ Group 2 allowances and proceeds of transactions involving SO₂ Group 2 allowances will be deemed to be held or distributed in accordance with the contract.

General

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. 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. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Signature (Designated Representative) - DALE IRWIN <i>DALE IRWIN</i>	Date 3/5/2021
Signature (Alternate Designated Representative)	Date



Instructions for the Certificate of Representation

NOTE: The Certificate of Representation information can be submitted online through the CAMD Business System (CBS), which can be accessed at <https://camd.epa.gov/cbs/index.cfm>. See the Certificate of Representation tutorial on the CBS homepage for assistance. If you have questions about CBS, send an email to cbs-support@camdsupport.com.

You must have a user name and password to access CBS. You can obtain a user name and password if: (1) you are currently listed in the CAMD database as a designated representative or an agent for a designated representative, **AND** (2) CAMD has received and processed a hard copy of the Electronic Subscriber Agreement form at http://www.epa.gov/airmarkets/business/docs/forms/subscriber_agreement.pdf.

Once a person meets the criteria above, he/she may contact one of the following persons to obtain a user name and password: Karen VanSickle at (202) 343-9220, Kirk Nabors at (202) 343-9171 or Paula Branch at (202) 343-9168.

Any reference in these instructions to the designated representative means the Acid Rain designated representative, the CAIR designated representative, and/or the Transport Rule designated representative, as applicable. Any reference to the alternate designated representative means the alternate Acid Rain designated representative, the alternate CAIR designated representative, and/or the alternate Transport Rule designated representative, as applicable. As reflected in this form, the Acid Rain designated representative, the CAIR designated representative, and the Transport Rule designated representative for a plant must be the same individual, and the alternate Acid Rain designated representative, the alternate CAIR designated representative, and the alternate Transport Rule designated representative for a plant must be the same individual.

Please type or print. Submit a separate page 2 for each unit at the plant subject to the Acid Rain Program (ARP), a CAIR Trading Program (CAIR), the MATS program, or a Transport Rule Program (TR). Include units for which a Retired Unit Exemption notice has been submitted. Indicate the page order and total number of pages (e.g., 1 of 4, 2 of 4, etc.) in the boxes in the upper right hand corner of page 2. **A Certificate of Representation amending an earlier submission supersedes the earlier submission in its entirety and must therefore always be complete.** Submit one Certificate of Representation form with original signature(s). NO FIELDS SHOULD BE LEFT BLANK. For assistance, send an email to cbs-support@camdsupport.com.

STEP 1

(i) A plant code is a 4 or 5 digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older plants, "plant code" is synonymous with "ORISPL" and "facility" codes. If the plant generates electricity but no plant code has been assigned, or if there is uncertainty regarding what the plant code is, send an email to the EIA at EIA-860@eia.gov. For plants that do not produce electricity, use the plant identifier assigned by EPA (beginning with "88"). If the plant does not produce electricity and has not been assigned a plant identifier, contact Laurel DeSantis at desantis.laurel@epa.gov.

(ii) Enter the latitude and longitude representing the location of the plant in degree decimal format.

Note that coordinates **MUST** be submitted in decimal degree format; in this format minutes and seconds are represented as a decimal fraction of one degree. Therefore, coordinates containing degrees, minutes, and seconds must first be converted using the formula:

$$\text{decimal degrees} = \text{degrees} + (\text{minutes} / 60) + (\text{seconds} / 3600)$$

Example:

$$39 \text{ degrees, } 15 \text{ minutes, } 25 \text{ seconds} = 39 + (15 / 60) + (25 / 3600) = 39.2569 \text{ degrees}$$

STEPS 2 & 3

The designated representative and the alternate designated representative must be individuals (i.e., natural persons) and cannot be a company. Enter the company name and address of the representative as it should appear on all correspondence. If an email address is provided, most correspondence will be emailed. **Although not required, EPA strongly encourages owners and operators to designate an alternate designated representative to act on behalf of the designated representative.**

STEP 4

(i) Complete one page for each unit subject to the ARP, CAIR, MATS, or TR, and indicate the program(s) that the unit is subject to. Identify each unit at the plant by providing the appropriate unit identification number, consistent with the identifiers used in previously submitted Certificates of Representation (if applicable) and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each submission to EPA that includes the unit identification number(s) (e.g., monitoring plans and quarterly reports) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation. Do not identify units that are not subject to the above-listed programs but are part of a common monitoring configuration with a unit that is subject to any of these programs. To identify units in a common monitoring configuration that are not subject to any of these programs, call the CAMD Hotline at (202) 343-9620, and leave a message under the "Continuous Emissions Monitoring" submenu.

(ii) Identify the type of unit using one of the following abbreviations:

<u>Boilers</u>	<u>Boilers</u>	<u>Turbines</u>
AF Arch-fired boiler	OB Other boiler	CC Combined cycle
BFB Bubbling fluidized bed boiler	PFB Pressurized fluidized bed boiler	CT Combustion turbine
C Cyclone boiler	S Stoker	IGC Integrated Gasification Combined Cycle
CB Cell burner boiler	T Tangentially-fired boiler	OT Other turbine
CFB Circulating fluidized bed boiler	WBF Wet bottom wall-fired boiler	<u>Others</u>
DB Dry bottom wall-fired boiler	WBT Wet bottom turbo-fired boiler	ICE Internal Combustion engine
DTF Dry bottom turbo-fired boiler	WVF Wet boiler vertically-fired boiler	KLN Cement kiln
DVF Dry bottom vertically-fired boiler		PRH Refinery process heater

If there is uncertainty about how a unit should be characterized, contact Robert Miller at miller.robertl@epa.gov or (202) 343-9077.

(iii) Indicate the source category description that most accurately describes the purpose for which the unit is operated by entering one of the following terms. If none of these descriptions applies to your unit, contact Robert Miller at miller.robertl@epa.gov or (202) 343-9077.

Automotive Stampings
Bulk Industrial Chemical
Cement Manufacturing
Cogeneration
Electric Utility

Industrial Boiler
Industrial Turbine
Institutional
Iron and Steel
Municipal Waste Combustor

Petroleum Refinery
Portland Cement Plant
Pulp and Paper Mill
Small Power Producer
Theme Park

(iv) Provide the primary North American Industrial Classification System (NAICS) code that most accurately describes the business type for which the unit is operated. If unknown, go to <http://www.census.gov> for guidance on how to determine the proper NAICS code for the unit.

(v) Enter the date the unit began (or will begin) serving any generator producing electricity for sale, including test generation. Enter this date and check the "actual" box for any unit that has begun to serve a generator producing electricity for sale as of the date of submission of this form. (This information should be provided even if the unit does not currently serve a generator producing electricity for sale.) For any unit that will begin, but has not begun as of the date of submission of this form, to serve a generator producing electricity for sale, estimate the future date on which the unit will begin to produce electricity for sale and check the "projected" box. When the actual date is established, revise the form accordingly by entering the actual date and checking the "actual" box. Enter "NA" if the unit has not ever served, is not currently serving, and is not projected to serve, a generator that produces electricity for sale. **You are strongly encouraged to use the CAMD Business System to update information regarding the date a unit begins serving a generator producing electricity for sale. See the Certificate of Representation tutorial on the CBS homepage for assistance.**

If you have questions regarding this portion of the form, contact Robert Miller at miller.robertl@epa.gov or (202) 343-9077.

(vi) For a unit subject to the ARP, CAIR, MATS, or TR, that, as of the date of submission of this form, serves one or more generators (whether or not the generator produces electricity for sale), enter the generator ID number(s) and the nameplate capacity (in MWe) of each generator served by the unit. A unit serves a generator if it produces, or is able to produce, steam, gas, or other heated medium for generating electricity at that generator. For combined cycle units, report separately the nameplate capacities of the generators associated with the combustion turbine and the steam turbine. Please ensure that the generator ID numbers entered are consistent with those reported to the EIA.

The definitions of "nameplate capacity" under the ARP and CAIR/MATS/TR Programs differ slightly. Therefore, for a unit subject to the ARP and any CAIR/MATS/TR Program, the nameplate capacity for the same generator under the ARP and under the CAIR/MATS/TR Program may differ in certain limited circumstances. Specifically, for a unit subject to the ARP, the nameplate capacity of a generator, if listed in the National Allowance Database ("NADB"), is not affected by physical changes to the generator after initial installation that result in an increase in the maximum electrical generating output that the generator is capable of producing. Otherwise, for a unit subject to the ARP or a CAIR/MATS/TR Program, the nameplate capacity of a generator is affected by physical changes to the generator after initial installation that result in an increase in the maximum electrical generating output that the generator is capable of producing. In such a case, the higher maximum electrical generating output number in MWe should be reported in the nameplate capacity column. For units subject only to MATS, use the nameplate capacity reported for each generator on U.S. EIA form EIA-860. If the facility does not report to U.S. EIA, use the nameplate capacity displayed on the nameplate of the generator served by the unit. Enter "NA" if, as of the date of submission of this form, the unit does not serve a generator.

See the definition of "nameplate capacity" at 40 CFR 72.2, 96.102, 97.102, 96.202, 97.202, 96.302, 97.302, 97.402, 97.502, 97.602, and 97.702, as applicable. The NADB is located at the CAMD website at <http://www.epa.gov/airmarkets/trading/allocations.html>. If you have questions regarding nameplate capacity, contact Robert Miller at miller.robertl@epa.gov or (202) 343-9077; if you have questions regarding the NADB, contact Craig Hillock at hillock.craig@epa.gov or (202) 343-9105.

(vii) Enter the company name of each owner and operator in the "Company Name" field. Indicate whether the company is the owner, operator, or both. For new units, if the operator of a unit has not yet been chosen, indicate that the owner is both the owner and operator and submit a revised form when the operator has been selected within 30 days of the effective date of the selection. EPA must be notified of changes to owners and operators within 30 days of the effective date of the change. **You are strongly encouraged to use the CAMD Business System to provide updated information on owners and operators. See the Certificate of Representation tutorial on the CBS homepage for assistance.**

(viii) Indicate whether or not the unit is located in Indian Country. For more information see the definition of "Indian Country" at 40 CFR 97.402, 97.502, 97.602 and 97.702.

(ix) When identifying a unit at a plant for the first time, indicate whether or not the unit ever operated at another location. If the answer is “yes”, the EPA will contact the owners/operator for more information.

STEP 5

Read the appropriate certification statements that apply (if any), sign, and date.

Mail this form to:

For regular/certified mail:

U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW
Mail Code 6204M
Attention: Designated Representative
Washington, DC 20460

For overnight mail:

U.S. Environmental Protection Agency
1201 Constitution Ave., NW
7th Floor, Room # 7421M
Attention: Designated Representative
Washington, DC 20004
(202) 343-9191

Submit this form prior to making any other submissions under the ARP, CAIR, MATS or TR Programs. Submit a revised Certificate of Representation when any information in the existing Certificate of Representation changes. You are strongly encouraged to use the CAMD Business System to provide updated information. See the Certificate of Representation tutorial on the CBS homepage for assistance.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 15 hours per response annually. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

New York State Department of Environmental Conservation Air Permit Application



DEC ID											
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APPLICATION ID OFFICE USE ONLY													
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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	<i>DALE IRWIN</i>	Date	03/5 / 2021
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 ☐ Significant Modification ☒ Renewal ☐ 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 LLC 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	
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	
Street Address		590 Plant Road PO Box 187							
City	Dresden	State	NY	Country	U.S.	Zip	14441		

New York State Department of Environmental Conservation Air Permit Application



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Attachment B – Title V Permit Application Forms

All proposed changes are noted in red font

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 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 <u>in compliance</u> 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.

New York State Department of Environmental Conservation Air Permit Application



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Attachment B – Title V Permit Application Forms

All proposed changes are noted in red font

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				
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						

New York State Department of Environmental Conservation Air Permit Application



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APPLICATION ID OFFICE USE ONLY													

Attachment B – Title V Permit Application Forms

All proposed changes are noted in red font

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		CAS No.		Contaminant Name			
		☐ Capping		-					
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 engines: May 3, 2013. [40 CFR 63.6595 (a)] II. General Requirements for Complying with Subpart ZZZZ 1. The Permittee must be in compliance with the emission limitations, operating limitations and other applicable requirements of Subpart ZZZZ at all times. [40 CFR 63.6605 (a)] 2. At all times, the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the facility to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to EPA Region 2 which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605 (b)] III. Emission Limitations, Management Practices and Other Requirements: 1. The Permittee shall comply with the following requirements of 40 CFR 63.6602 and Table 2c, Section 4 of Subpart ZZZZ: The requirements a through c must be met at all times, except during periods of startup. a. Change the oil and filter every 500 hours of operation or annually, whichever comes first. The Permittee has the option to utilize an oil analysis program as described in 63.6625(i) in order to extend the specified oil change requirements. b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. d. The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes after which time the emission standards applicable to all times other than startup apply. [40 CFR 63.6625(h)] e. If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedules required in Table 2c of Subpart ZZZZ, or if performing the management practice on the required schedules would otherwise pose an unacceptable risk under federal, state or local law, the management practices can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice shall be performed as soon as possible after the emergency has ended or the unacceptable risk has abated. The Permittee shall report any failure to perform the management practice on the schedule required and the federal, state, or local law under which the risk was deemed unacceptable. 2. Operate and maintain the engines and after-treatment control device (if any) according to the manufacturer's emission-related operation and maintenance instructions; or develop and follow your its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good pollution control practices for minimizing emissions. [40 CFR 63.6625 (e)] 3. Install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625 (f)] 4. The Permittee may utilize an oil analysis program in order to extend the oil change requirements specified in 63.602 (a) and Table 2c. The oil analysis must be performed as specified in 63.6625 (i). 5. The Permittee must demonstrate continuous compliance with the each applicable operating limitation in Table 2c in accordance to									

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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) through (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. [40 CFR 63.6655 (e)]
3. The hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency. The Permittee must keep records of the notification of the emergency situation, and the date, start time and end time of the engine operation for these purposes. [40 CFR 63.6655 (f)]
4. The records must be in a form suitable and readily available for expeditious review. [40 CFR 63.6660 (a) and 40 CFR 63.10 (b) (1)]
5. The Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.6660 (b) and 40 CFR 63.10 (b) (1)]
6. The Permittee must keep each record readily accessible in hard copy or electronic form on site at the source for 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 63.10 (b)(1). [40 CFR 63.6660 (c) and 40 CFR 63.10 (b) (1)]

VI. Reporting Requirements

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

40 CFR 63 Subpart A-General Provisions

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

Work Practice		Process Material				Reference Test Method
Type	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 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				CAS No.		Contaminant Name			
☐ State Only Requirement		☐ Capping		-					
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		Process Material				Reference Test Method			
Type	Code	Description							
Parameter		Manufacturer Name/Model No.							
Code	Description								
017	Gasoline								
Limit		Limit Units							
Upper	Lower	Code	Description						
120000		18	gallons per year						
Averaging Method		Monitoring Frequency				Reporting Requirements			
Code	Description	Code	Description			Code	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				CAS No.		Contaminant Name			
☐ State Only Requirement		☐ Capping		-					
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		Process Material				Reference Test Method			
Type	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 MONITORING DESCRIPTION	14	SEMI-ANNUALLY (CALENDAR)				

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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				CAS No.		Contaminant Name			
☐ State Only Requirement		☐ Capping		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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A			
Parameter		Description				Manufacturer Name/Model No.			
Code		Description							
0NY210000		OXIDES OF NITROGEN							
Limit		Limit Units							
Upper	Lower	Code	Description						
153.8		38	tons per year						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
71	ANNUAL TOTAL ROLLED MONTHLY	05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)				

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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				CAS No.		Contaminant Name			
☐ State Only Requirement		☐ Capping		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		Process Material				Reference Test Method			
Type	Code	Description							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
0NY750000		CARBON DIOXIDE EQUIVALENTS							
Limit		Limit Units							
Upper		Lower		Code		Description			
53788.1				34		tons			
Averaging Method		Monitoring Frequency				Reporting Requirements			
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
36	30-DAY ROLLING AVERAGE	05	MONTHLY	14	SEMI-ANNUALLY (CALENDAR)				

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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				CAS No.		Contaminant Name			
☐ State Only Requirement		☐ Capping		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 #31 Facility-wide greenhouse gas emissions are limited to 641,878 tons/year of CO₂e on a 12-month rolling total basis, rolled monthly. This facility wide limit includes the CO₂e emissions from Boiler #6, emergency diesel generator, emergency diesel fire pump, and natural gas heater. For calculating the actual tons of CO₂e from Boiler #6, the Permittee shall use the procedures set forth in 40 CFR Part 98 to determine resulting GHG emissions (as CO₂e) based on the combination of measured by CEMS CO₂ emissions and calculated CO₂e of CH₄ and N₂O. For the purposes of showing compliance with the GHG BACT emission limits, the CH₄ and N₂O emission factors listed in 40 CFR Part 98, Tables C-1 and C-2, and the global warming potential factors listed in 40 CFR Part 98, subpart A, Table A-1 shall be used. The actual CO₂e from the emergency diesel generator, emergency diesel fire pump, and natural gas heater shall be calculated as specified elsewhere in this permit.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
		Parameter				Manufacturer Name/Model No.			
Code		Description							
0NY750000		CARBON DIOXIDE EQUIVALENTS							
Limit		Upper		Lower		Code		Limit Units	
		641878				38		tons per year	
Averaging Method		Monitoring Frequency				Reporting Requirements			
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
71	ANNUAL TOTAL ROLLED MONTHLY	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)	Actual Emissions** (pounds/yr)
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS	641,878	
124-38-9	CARBON DIOXIDE	639,351	
0NY210000	OXIDES OF NITROGEN	153.8	
0NY075100	UNSPECIATED PARTICULATES	48.9	
0NY075005	PM-10	151.7	
0NY075-02-5	PM-2.5	151.7	
630-08-0	CARBON MONOXIDE	464.8	
7446-09-5	SULFUR DIOXIDE	39	
7439-92-1	LEAD	0.006	
0NY998-00-0	VOC	49	
-	POLYCYCLIC ORGANIC MATTER	5E-05	0.2
0NY100-00-0	TOTAL HAPs	32.0	4,150
50-00-0	FORMALDEHYDE	5.0	165
71-43-2	BENZENE	9.3	4.6
75-07-0	ACETALDEHYDE	5E-4	0.02
91-20-3	NAPHTHALENE	3E-3	1.3
106-99-0	1,3-BUTADIENE	2E-5	0.001
107-02-8	ACROLEIN	1.0	0.003
108-88-3	TOLUENE	2E-2	7.5
110-54-3	HEXANE	8.6	3,960
1330-20-7	XYLENE	2E-4	0.008
7440-38-2	ARSENIC	1E-3	0.4
7440-41-7	BERYLLIUM	6E-5	0.03
7440-43-9	CADMIUM	5E-3	2.4
7440-47-3	CHROMIUM	7E-3	3.1
7440-48-4	COBALT	4E-4	0.2
7439-96-5	MANGANESE	2E-3	0.8
7439-97-6	MERCURY	1E-3	0.6
7440-02-0	NICKEL	1E-2	4.6
7782-49-2	SELENIUM	1E-4	0.053
7647-01-0	HYDROGEN CHLORIDE	2.3	0
7664-41-7	AMMONIA	43.5	20,100

*Potential to Emit included in the above table is the same as the Potential to Emit for the existing permit.

**Actual emissions listed above are the average 2019 and 2020 emissions in the Emissions Statements. The 2020 Emissions Statement will be submitted to NYSDEC before April 15, 2021, in accordance with Part 202-2 requirements.

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Section IV - Emission Unit Information

Emission Unit Description ☐ Continuation Sheet(s)									
EMISSION UNIT	G	-	0	0	0	0	4		
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.	0	0	0	0	4	
Ground Elev. (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section	
479	227	99	156	309	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
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	Description	Manufacturer's Name/Model No.
B0006	C		11/1/1953				Boiler 6
Design Capacity	Code	Design Capacity Units Description			Code	Waste Feed Description	Waste Type Description
1117	25	million Btu per hour					
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Description	Manufacturer's Name/Model No.
BAG06	K		11/1/2006		016	Fabric Filter	
Design Capacity	Code	Design Capacity Units Description			Code	Waste Feed Description	Waste Type Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Description	Manufacturer's Name/Model No.
NCR06	K		11/1/2006		029	Selective non-catalytic reduction (SNCR)	Fuel Tech (SNCR)
Design Capacity	Code	Design Capacity Units Description			Code	Waste Feed Description	Waste Type Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Description	Manufacturer's Name/Model No.
OFA06	K		11/1/2006		033	Selective Catalytic Reduction (SCR)	Selective Catalytic Reduction (SCR)
Design Capacity	Code	Design Capacity Units Description			Code	Waste Feed Description	Waste Type Description
Emission Source ID	Type	Date of Construction	Date of Operation	Date of Removal	Control Type Code	Description	Manufacturer's Name/Model No.
SCR06	K		11/1/2006		033	Selective Catalytic Reduction (SCR)	Selective Catalytic Reduction (SCR)
Design Capacity	Code	Design Capacity Units Description			Code	Waste Feed Description	Waste Type Description

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Section IV - Emission Unit Information (continued)

Process Information ☒ Continuation Sheet(s)									
EMISSION UNIT G - 0 0 0 0 4							PROCESS P 6 5		
Description									
Previous Condition #37.1									
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		Building		Floor/Location		
			Hrs/Day	Days/Yr					
								BOILER	
Emission Point Identifier(s)									
Emission Source/Control Identifier(s)									
B0006	LNB06	NCR06	SCR06						

Process Information ☒ Continuation Sheet(s)									
EMISSION UNIT G - 0 0 0 0 4							PROCESS P 7 5		
Description									
Previous Condition #37.2									
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		Building		Floor/Location		
			Hrs/Day	Days/Yr					
								BOILER	
Emission Point Identifier(s)									

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Emission Source/Control Identifier(s)							
B0006	BAG06	LNB06	NCR06	OFA06	SCR06		

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	CCCC C	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			Reference Test Method									
	Code	Description											
	341	FUEL CONSUMPTION											
Parameter				Manufacturer Name/Model No.									
Code		Description											
38		HEAT INPUT											
Limit				Limit Units									
Upper		Lower		Code	Description								
		85		136	PERCENT								

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

All proposed changes are noted in red font

Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
71	ANNUAL TOTAL ROLLED MONTHLY	05	MONTHLY	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	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		Process Material				Reference Test Method			
Type	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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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
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, NO_x, CO, NH₃, and CO₂ emissions for each affected unit as follows: (1) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements of this part, a SO₂ CEMS and a flow monitoring system with the automated data acquisition and handling system for measuring and recording SO₂ concentration (in ppm), volumetric gas flow (in scfh), and SO₂ mass emissions (in lb/hr) discharged to the atmosphere, except as provided in §§75.11 and 75.16 and subpart E of this part; (2) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements of this part, a NO_x CEMS (consisting of a NO_x pollutant concentration monitor and an O₂ or CO₂ diluent gas monitor) with the automated data acquisition and handling system for measuring and recording NO_x concentration (in ppm), O₂ or CO₂ concentration (in percent O₂ or CO₂) and NO_x emission rate (in lb/MMBtu) discharged to the atmosphere. The owner or operator shall account for total NO_x emissions, both NO and NO₂, either by monitoring for both NO and NO₂ or by monitoring for NO only and adjusting the emissions data to account for NO₂; (3) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements of this part, a CO₂ CEMS and a flow monitoring system with the automated data acquisition and handling system for measuring and recording CO₂ concentration (in ppm or percent), volumetric gas flow (in scfh), and CO₂ mass emissions (in tons/hr) discharged to the atmosphere; (4) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements in this part, a continuous opacity monitoring system with the automated data acquisition and handling system for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere; (5) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements in this part, a continuous CO CEMS with the automated data acquisition and handling system for measuring and recording the CO emissions (in lb/MMBtu) discharged to the atmosphere; (6) The owner or operator shall install, certify, operate, and maintain, in accordance with all the requirements in this part, a continuous Ammonia (NH₃) CEMS with the automated data acquisition and handling system for measuring and recording the NH₃ emissions (in ppmvd @ 3% O₂) discharged to the atmosphere.									
Work Practice		Process Material				Reference Test Method			
Type	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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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
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	Process Material					Reference Test Method			
Type	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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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: - Steam turbine's energy output in megawatts hour (MW-hour) on an hourly basis. - The volume of natural gas consumed on an hourly basis. - The amount of each type of biomass charged. - Actual heat input rate (MMBtu/hr), which shall be determined as follows: - 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. - 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. - The biomass charged to the boiler # 6 must have a minimum heating value of 5,000 Btu/lb.									
Work Practice Type	Code		Process Material Description			Reference Test Method			
Code		Parameter Description			Manufacturer Name/Model No.				
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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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), NO_x concentration, NO_x emission rate data, and NH₃ concentration data collected by the monitors to hourly averages. Hourly averages shall be computed using at least one data point in each fifteen minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly average may be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour) if data are unavailable as a result of the performance of calibration, quality assurance, or preventive maintenance activities pursuant to §75.21 and appendix B of this part, backups of data from the data acquisition and handling system, or recertification, pursuant to §75.20. The owner or operator shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour. (2) The owner or operator shall ensure that each continuous opacity monitoring system is capable of completing a minimum of one cycle of sampling and analyzing for each successive 10-sec period and one cycle of data recording for each successive 6-min period. The owner or operator shall reduce all opacity data to 6-min averages calculated in accordance with the provisions of part 51, appendix M of this chapter, except where the applicable State implementation plan or operating permit requires a different averaging period, in which case the State requirement shall satisfy this Acid Rain Program requirement. (3) Failure of an SO₂, CO₂ or O₂ pollutant concentration monitor, flow monitor, NH₃ or NO_x CEMS, to acquire the minimum number of data points for calculation of an hourly average in paragraph (d)(1) of this section, shall result in the failure to obtain a valid hour of data and the loss of such component data for the entire hour. An hourly average NO_x or SO₂ emission rate in lb/MMBtu is valid only if the minimum number of data points are acquired by both the pollutant concentration monitor (NO_x or SO₂) and the diluent monitor (CO₂ or O₂). Except for SO₂ emission rate data in lb/MMBtu, if a valid hour of data is not obtained, the owner or operator shall estimate and record emission or flow data for the missing hour by means of the automated data acquisition and handling system, in accordance with the applicable procedure for missing data substitution in subpart D of this part.									
Work Practice		Process Material				Reference Test Method			
Type	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	14	SEMI-ANNUALLY (CALENDAR)				

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All proposed changes are noted in red font

				MONITORING DESCRIPTION		
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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	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	Process Material			Reference Test Method					
Type	Code	Description							
Code		Parameter			Manufacturer Name/Model No.				
		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)				

All proposed changes are noted in red font

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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	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 NO_x add-on emission controls that do not elect to use the approved site-specific parametric monitoring procedures for calculation of substitute data, the information in 40 CFR 75.55(b)(3); and the information recorded under 40 CFR 75.56(a)(7) 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 NO_x emission rate (pounds per million BTU, rounded to the nearest hundredth) during the quarter and cumulative NO_x emission rate for the calendar year. (4) Tons of CO₂ emitted during the quarter and cumulative CO₂ emissions for the calendar year. (5) Total heat input (million BTU) for the quarter and cumulative heat input for the calendar year.									
Work Practice Type		Process Material				Reference Test Method			
Code		Description							
Code		Parameter Description				Manufacturer Name/Model No.			
Limit		Upper		Lower		Code		Limit Units Description	
Averaging Method		Code		Monitoring Frequency		Code		Reporting Requirements	
Description				Description		Description		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	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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App B and F			
		Parameter				Manufacturer Name/Model No.			
Code		Description							
						Continuous Emission Monitor			
Limit				Limit Units					
Upper		Lower		Code	Description				
146.8				38	tons per year				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
71	ANNUAL TOTAL ROLLED MONTHLY		01	CONTINUOUS		14	SEMI-ANNUALLY (CALENDAR)		

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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				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 #43 <i>This condition was fulfilled as part of initial Title V permit issued in 2016.</i> During approximately the first 180 operating days (the "commissioning phase") the facility will continue operation of the existing SCR catalyst in operation at the time of plant protective layup (3/18/11). This will serve as a sacrificial NOx control device to allow residual coal fly ash to be purged from the system. When the commissioning phase is complete the facility will install new SCR catalyst and will notify the Department within 30 days of the date of installation of the new catalyst. During the commissioning phase, which could be up to the first 180 operating days the facility shall: 1) fire Boiler #6 only on natural gas; 2) comply with the NOx, CO, PM, PM10, PM2.5, and GHG emissions limits expressed as lb/MMBTU and lb of pollutant per startup and shutdown event specified in this permit; 3) comply with the opacity limits specified in this permit; 4) use all CEMS and COM specified in this permit.; and 5) use the particulate emissions controls at the facility, including but not limited to the fabric filter for Boiler #6, to collect and control the potential particulates and soot that may result during purging of the existing SCR system									
Work Practice		Process Material				Reference Test Method			
Type	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	16	AS REQUIRED - SEE MONITORING DESCRIPTION				

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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	Process Material			Reference Test Method					
Type	Code	Description							
						40 CFR 60 App A			
Parameter			Manufacturer Name/Model No.						
Code	Description				Continuous Emission Monitor				
Limit			Limit Units						
Upper	Lower	Code	Description						
1562		487	pounds per event						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
76	MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE		01	CONTINUOUS		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	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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit		Lower		Code	Limit Units				
Upper				7	Description				
130.17					pounds per million Btus				
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	14	SEMI-ANNUALLY (CALENDAR)				

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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 <i>This condition was fulfilled as part of initial Title V permit issued in 2016.</i> 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		Process Material				Reference Test Method			
Type	Code	Description				40 CFR 60 App B and F			
Code		Parameter Description				Manufacturer Name/Model No.			
Limit		Upper		Lower		Code		Limit Units	
151.7						38		tons per year	
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
71	ANNUAL TOTAL ROLLED MONTHLY	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	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 <i>This condition was fulfilled as part of initial Title V permit issued in 2016.</i> The facility will develop and implement a Leak Detection and Repair (LDAR) Program for the above ground piping on the facility property to minimize fugitive Greenhouse Gases (GHGs) from the natural gas pipeline system. Additionally, the facility will conduct a one-time Energy Assessment (EA) following the procedures specified in 40 CFR Part 63 Subpart DDDDD, Table 3. The EA will be performed within one year of facility commissioning and the report will be maintained on site for Department review upon request. Greenidge will continuously monitor and minimize, to the extent practicable, its station parasitic load.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Code		Parameter Description				Manufacturer Name/Model No.			
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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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 <i>This condition was fulfilled as part of initial Title V permit issued in 2016.</i> 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		Process Material				Reference Test Method			
Type	Code	Description				40 CFR App B and F			
Code		Parameter Description				Manufacturer Name/Model No.			
Limit		Limit Units							
Upper	Lower	Code	Description						
151.7		38	tons per year						
Averaging Method		Monitoring Frequency				Reporting Requirements			
Code	Description	Code	Description			Code	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
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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR App B and F			
Parameter		Description				Manufacturer Name/Model No.			
Code									
Limit		Upper		Lower		Code		Limit Units	
		464.8				38		tons per year	
Averaging Method		Monitoring Frequency		Reporting Requirements		Code		Description	
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
71	ANNUAL TOTAL ROLLED MONTHLY	01	CONTINUOUS	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	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 Unit has achieved minimum generating load and the required air pollution control equipment is operational. Shutdown is defined as any planned cessation of electricity generation while firing natural gas only. 1. The duration of each startup and each shutdown event shall not exceed 12 hours. 2. During startup and shutdown, the Permittee shall: a. Minimize the emissions by: 1) operating and maintaining Boiler # 6 and associated air pollution control equipment in accordance with good combustion and air pollution control practices, safe operating practices, and protection of the facility; and 2) implementation of operations and maintenance practices comprised of maintaining a high level of operation time. b. Operate continuous emission monitoring system (CEMS), continuous opacity monitoring system, and other continuous monitoring systems and devices required by this permit. c. Unless otherwise specified in this permit, comply with all emissions and opacity limits applicable during normal operation. 3. The Facility shall record: a. The time, date, and duration in hours and minutes; b. The heat input rate (MMBtu/hr) of Boiler # 6 that shall be determined based on the actual natural gas consumption and the fuel's heating value (MMBtu/scf) of 1,020E-06 MMBtu/scf. Additionally, the minimum operating load will be 32 Megawatts.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR App A			
		Parameter				Manufacturer Name/Model No.			
Code		Description							
						Continuous Emission Monitor			
Limit		Limit		Limit Units					
Upper	Lower	Code	Description						
242.3		487	pounds per event						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	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	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				Reference Test Method			
		Code		Description					
						40 CFR App A			
		Parameter				Manufacturer Name/Model No.			
		Code		Description		Continuous Emission Monitor			
Limit				Limit Units					
Upper		Lower		Code		Description			
20				371		parts per million by volume (dry, corrected to 3% oxygen)			
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION		01	CONTINUOUS		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		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		Process Material				Reference Test Method			
Type	Code	Description				40 CFR App A			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit				Limit Units					
Upper		Lower		Code	Description				
0.0365				7	pounds per million Btus				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION		01	CONTINUOUS		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	234	7	5					
☒ Applicable Federal Requirement					☐ State Only Requirement			☐ Capping	
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
G - 00004		P65		0NY075 - 02 - 5		PM2.5			
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 #65 While firing natural gas emissions of PM2.5 from Unit G-00004 must not exceed 0.00825 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 the beginning of commercial production of power, but no later than 180 days after initial start up of Boiler #6. For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit#4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 0.00825 lb/MMBtu firing natural gas, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of total PM2.5 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 exceedance of the PM2.5 limit of 0.00825 lb/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.021 lb/MMBtu shall not be considered violations of the permit conditions. Any adjustment to the 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 6 NYCRR 201.6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231.11.									
Work Practice Type	Process Material		Reference Test Method						
Code	Description		40 CFR 60 App A M-5 and 40 CFR 51 App M M-202						
Parameter		Manufacturer Name/Model No.							
Code	Description								
Limit		Limit Units							
Upper	Lower	Code	Description						
0.00825		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-HOUR AVERAGE	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	7	5					
☒ Applicable Federal Requirement ☐ State Only Requirement ☐ Capping									
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
G - 00004		P65		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									
Proposed New Condition to replace Condition #65 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). To demonstrate ongoing compliance with the PM-2.5 emission limitation, the Facility will use a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to PM-2.5 emissions as measured during previous stack tests. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9 test.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Parameter		Limit				Manufacturer Name/Model No. Continuous Emission Monitor			
Code	Description	Description							
Upper		Lower		Code	Limit Units				
0.00825				7	pounds per million Btus				
Averaging Method		Monitoring Frequency				Reporting Requirements			
Code	Description	Code	Description	Code	Description	Code	Description		
08	1-HOUR AVERAGE	09	ANNUALLY	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	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/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.021 lb/MMBtu shall not be considered violations of the permit conditions. Any adjustment to the PM-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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR App A-M-5 and 40 CFR 51 App M			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit		Limit Units							
Upper	Lower	Code	Description						
0.00825		7	pounds per million Btus						
Averaging Method		Monitoring Frequency				Reporting Requirements			
Code	Description	Code	Description			Code	Description		
08	1-HOUR AVERAGE	09	ANNUALLY			14	SEMI-ANNUALLY (CALENDAR)		

All proposed changes are noted in red font

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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	234	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 are must not exceed 0.002 lb/MMBtu. An initial stack test to demonstrate compliance with the PM emission rate (comprised of 3 test runs of not less than 1 hour sampling period per test run), must be completed within 180 days of the beginning of commercial production of power, but no later than 180 days after the initial startup of Boiler #6. For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. Additional compliance testing for PM emissions from Unit G-00004 will be conducted annually. This condition also satisfies the requirements of 6 NYCRR Part 227-1.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR App A-M-5 and 40 CFR 51 App M			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit		Upper		Lower		Code		Limit Units	
		0.002				7		pounds per million Btus	
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-HOUR-AVERAGE	09	ANNUALLY	14	SEMI-ANNUALLY (CALENDAR)				

All proposed changes are noted in red font

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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		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	Code	Process Material Description				Reference Test Method			
						40 CFR App A			
Code		Parameter Description				Manufacturer Name/Model No.			
						Continuous Emission Monitor			
Limit		Upper		Lower		Code		Limit Units Description	
0.075						7		pounds per million Btus	
Averaging Method		Code		Monitoring Frequency		Code		Reporting Requirements	
Description		Description		Description		Description		Description	
63		AVERAGING METHOD - SEE MONITORING DESCRIPTION		01		CONTINUOUS		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	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 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 firing of Unit G-00004 and ending at the time when the Unit has achieved minimum generating load and the required air pollution control equipment is operational. Shutdown (SD) is defined as any planned cessation of electricity generation. The SU/SD Plan shall include the following minimum information: - The duration of each startup and each shutdown event shall not exceed 12 hours. - During startup and shutdown, the Permittee shall: - 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. - Operate continuous emission monitoring system (CEMS), continuous opacity monitoring system, and other continuous monitoring systems and devices required by this permit. - Unless otherwise specified in this permit, comply with all emissions and opacity limits applicable during normal operation. - The Facility shall record: - The time, date, and duration in hours and minutes; - 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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR App A			
Parameter		Limit Units				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit		Upper		Lower		Code	Description		
		242.3				487	pounds per event		
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	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

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 identified 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		Process Material				Reference Test Method			
Type	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
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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A			
Parameter		Limit Units				Manufacturer Name/Model No.			
Code	Description					Continuous Emission Monitor			
Limit		Code		Description					
Upper	Lower								
0.058		7		pounds per million Btus					
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	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	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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit			Limit Units						
Upper		Lower		Code	Description				
0.05				7	pounds per million Btus				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION		01	CONTINUOUS		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	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) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. In the event that during the initial compliance performance testing it would be determined that the Permittee cannot meet the 0.031 lb/MMBtu co-firing natural gas and biomass, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of total PM2.5 emission limits cannot exceed 0.0419 lb/MMBtu. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedances of the 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 6 NYCRR 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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A M-5 and 40 CFR 51 App M			
		Parameter				Manufacturer Name/Model No.			
Code		Description				Continuous Emission Monitor			
Limit		Limit Units							
Upper	Lower	Code	Description						
0.031		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-HOUR AVERAGE	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	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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A M-5			
Parameter		Description				Manufacturer Name/Model No.			
Code									
Limit		Limit Units							
Upper	Lower	Code	Description						
0.01		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-HOUR AVERAGE	09	ANNUALLY	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	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 the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. In the event that during the initial compliance performance testing it would be determined that the Permittee cannot meet the 0.031 lb/MMBtu co-firing natural gas and biomass, the NYSDEC may adjust the emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of PM-10 emission limits cannot exceed 0.0419 lb/MMBTU. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedances of the PM-10 limits of 0.031 lb/MMBTU that may occur during the initial compliance performance testing and, that would be below 0.0419 lb/MMBtu shall not be considered violations of the permit conditions. Any adjustment to the PM-10 emission limit for Unit G-00004, made in accordance with the provisions of the previous paragraph, will be considered an administrative amendment as defined at 6 NYCRR 201-6.6(b) and not subject to the requirements for modifications of 6 NYCRR 201-6.6(c) or (d), 6 NYCRR Part 621 or 6 NYCRR Part 231-11. Additional compliance testing for PM-10 emissions from Unit G-00004 will be conducted annually.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A M-5 and 40 CFR 51 App M			
		Parameter				Manufacturer Name/Model No.			
Code		Description							
Limit		Limit Units							
Upper	Lower	Code	Description						
0.031		7	pounds per million Btus						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
08	1-HOUR AVERAGE	09	ANNUALLY	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	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 #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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A			
Parameter		Limit Units				Manufacturer Name/Model No.			
Code	Description					Continuous Emission Monitor			
Limit		Code		Description					
Upper	Lower	7		pounds per million Btus					
0.075									
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION	01	CONTINUOUS	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	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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 App A			
		Parameter				Manufacturer Name/Model No.			
Code		Description							
						Continuous Emission Monitor			
Limit			Code		Limit Units				
Upper		Lower			Description				
0.075				7	pounds per million Btus				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
63	AVERAGING METHOD - SEE MONITORING DESCRIPTION		01	CONTINUOUS		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	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		Process Material				Reference Test Method			
Type	Code	Description							
Parameter		Limit Units				Manufacturer Name/Model No.			
Code		Description							
Limit		Limit Units		Code		Description			
Upper	Lower								
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	13	QUARTERLY (CALENDAR)				

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0	1	0	8						

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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	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		Process Material				Reference Test Method			
Type	Code	Description							
						40 CFR 60 Appendix A, Method 5			
Parameter		Description				Manufacturer Name/Model No.			
Code									
96		PRESSURE DROP							
Limit		Lower		Code		Limit Units			
Upper						Description			
10.0		3.0		284		inches of water			
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
9N	RANGE-NOT TO FALL OUTSIDE OF STATED RANGE EXCEPT DURING	03	DAILY	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	-	0	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	
451	23	-10	64	60	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
1	1066	340.321	4727.002	HMILL		

Emission Source/Control ☐ Continuation Sheet(s)							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
BAG08	K				016	FABRIC FILTER	Unspecified bag house manufacturer
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description			Code	Description	Code Description
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
HMILL	I						Hammer Mill
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description			Code	Description	Code Description
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
WPILE	I						wood storage pile
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description			Code	Description	Code 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 - 0 0 0 0 5								PROCESS B I O			
Description											
Previous Condition #37.3											
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 - 0 0 0 0 5								PROCESS M I S			
Description											
Previous Condition #37.4											
General Process emission sources associated with Biomass (wood) handling 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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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
-													
-													

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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	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 (1/4" minus) from the biomass stream. Oversized material is conveyed to a container for appropriate disposal. Metal is either recycled or properly disposed. The undersized material (1/4" minus) from the screener is pneumatically conveyed to the processed wood storage area and transfer into a silo, without further processing. The remainder of the biomass material is transported via conveyor to the hammer mill area at a maximum rate of 2,500 ft³/hr. It is deposited into a 1,000 ft³ metering bin that feeds two parallel hammer mills. The level in this metering bin is measured by an ultrasonic level detector which is used to control the feed rate of the walking floor. The two hammer mills produce 1/4" minus material at a combined maximum rate of 3,000 ft³/hr. All material which passes the 1/4" minus screening along with the biomass that is produced by the hammer mills is pneumatically conveyed to one of two 23,000 ft³ storage silos. Then, on an as needed basis, all processed biomass is weighed and conveyed to a transport metering bin that can feed four individual pneumatic lines. Each pneumatic line is powered by its own blower where any combination of three blowers can deliver a maximum of 10 TPH (nominal 212 MMBtu/hr) of biomass to the boiler. The ground biomass is pneumatically conveyed from the silos to the boiler. The boiler still uses the same biomass injection ports that were used to co-fire with pulverized coal. The ports are simple tubes located on three levels, and in each corner (there are presently 12 total), one each directly above each T-fired corner burner assembly. Natural gas is fired in these burners. The biomass is pneumatically "blown-in" (as you would picture the placement of blown-in" wall insulation in a home) directly into the swirling fireball combustion geometry of a T-fired boiler. The biomass is therefore said to burn in suspension. The facility cannot fire biomass by itself – the unit is designed only for co-firing of biomass together with a primary fuel. Greenidge has committed to limiting the 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	Process Material			Reference Test Method					
Type	Code	Description							
Parameter				Manufacturer Name/Model No.					
Code	Description								

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All proposed changes are noted in red font

Limit		Limit Units	
Upper	Lower	Code	Description
Averaging Method		Monitoring Frequency	
Code	Description	Code	Description
		14	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements		Reporting Requirements	
Code	Description	Code	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	Process Material					Reference Test Method			
Type	Code	Description				Reference Test Method			
						40 CFR 60 Appendix Method 9			
Parameter						Manufacturer Name/Model No.			
Code	Description					Manufacturer Name/Model No.			
01	OPACITY					Manufacturer Name/Model No.			
Limit		Limit Units							
Upper	Lower	Code	Description						
20		136	percent						
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)				

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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 - 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		Process Material				Reference Test Method			
Type	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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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	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		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
TNK08	I						Urea storage tank
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	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 - 0 0 0 0 8								PROCESS P 8 U			
Description											
Previous Condition #37.5											
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		Building		Floor/Location				
			Hrs/Day	Days/Yr							
					BOILER						
Emission Point Identifier(s)											
Emission Source/Control Identifier(s)											
TNK08											

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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	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		
	80				Length (in)	Width (in)	
					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		
	80				Length (in)	Width (in)	
					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		
	57				Length (in)	Width (in)	
					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		
	57				Length (in)	Width (in)	
					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		
	90		48		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				

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All proposed changes are noted in red font

Emission Source/Control ☒ Continuation Sheet(s)									
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
BAG10	K				016	FABRIC FILTER			Bag House
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
BIN01	K				016	FABRIC FILTER			Bag House
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
BIN02	K				016	FABRIC FILTER			Bag House
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
BIN03	K				016	FABRIC FILTER			Bag House
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
BIN04	K				016	FABRIC FILTER			Bag House
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
VENT1	I								Ash Silo Vent
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
VENT2	I								Ash Silo Vent
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
VENT3	I								Ash Silo Vent
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
VENT4	I								Ash Silo Vent
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	Description	
VENT5	I								Ash Silo Vent
Design Capacity		Design Capacity Units			Waste Feed		Waste Type		
		Description			Code	Description	Code	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	A	B	A	H				PROCESS	F	B	A
Description															
<i>Previous Condition #37.5</i>															
Fly ash and bottom ash handling.															
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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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

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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 - 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. l. The hours of operation for the two Bin Vent Filters for the Day Fly Ash Silos and the Bin Vent Filters for the Main Fly Ash Silo are limited to 8 hours per day from 10:00 AM to 5:00 PM on weekdays. 2. Emissions Limitations The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the fly ash handling, storage and disposal systems: a. The emissions of PM, PM10, and PM2.5 from the exhaust of each bin vent filter controlling the Day Fly Ash Silo 1 and Day Fly Ash Silo 2 shall not exceed the following limits for each BACT pollutant: •PM/PM10/PM2.5: BACT emissions limit: 0.01 lb/hr •PM, PM10, and PM2.5 emissions shall include only filterable particulate matter. b. The emissions of PM, PM10, and PM2.5 from the exhaust of each Bin Vent Filter #2 and the fabric filter shall not exceed the following limits for each BACT pollutant: •PM/PM10/PM2.5: BACT emissions limit: 0.14 lb/hr •PM, PM10, and PM2.5 emissions shall include only filterable particulate matter. c. The emissions of PM, PM10, and PM2.5 from the exhaust of Bin Vent Filter #1 shall not exceed the following limits for each BACT pollutant: •PM/PM10/PM2.5: BACT emissions limit: 0.09 lb/hr									

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All proposed changes are noted in red font

•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		Process Material			Reference Test Method
Type	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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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.	0	0	0	1	7	
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		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
C0601	K				016	Dust Collector	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	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															
<i>Previous Condition #37.7</i>															
<i>Miscellaneous fugitive sources.</i>															
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

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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			
				-					
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.									

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All proposed changes are noted in red font

Work Practice		Process Material		Reference Test Method	
Type	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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All proposed changes are noted in red font

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		
	25				6				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 PT.	0	0	0	2	2						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)		Inside Diameter (in)		Exit Temp. (°F)		Cross Section		
	25				6				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 PT.	0	0	0	2	3						
Ground Elev. (ft)	Height (ft)		Height Above Structure (ft)		Inside Diameter (in)		Exit Temp. (°F)		Cross Section		
	15				20				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						

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All proposed changes are noted in red font

Emission Source/Control ☐ Continuation Sheet(s)							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
DFP04	C						Diesel Fire Pump
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	Description
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
EGN01	C						Emergency Generator
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	Description
375	471	brake horsepower					
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.
ID	Type				Code	Description	
NGH01	C						Natural Gas Heater
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	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									
Previous Condition #37.8									
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									
Previous Condition #37.9									
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									

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All proposed changes are noted in red font

Process Information ☐ Continuation Sheet(s)									
EMISSION UNIT	G	-	X	E	M	P	T	PROCESS	N G H
Description									
<i>Previous Condition #37.10</i>									
<i>Natural Gas Heater</i>									
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)									
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

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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	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							
☐ Intermittent Emission Testing			☐ Work Practice Involving Specific Operations							
☐ Ambient Air Monitoring			☒ Record Keeping/Maintenance Procedures							
Description										
Previous Condition #84 Visible emissions from Emergency Generator, Fire Pump and Natural Gas Heater combustion sources shall not exceed exhibit greater than 20% opacity (based on six minute average) except for one six-minute period per hour of no more than 27% opacity. This is a BACT requirement. Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the emergency generator, emergency fire pump and natural gas heater. Subsequent Compliance Tests: The Permittee shall conduct performance testing for visible emissions on an annual basis.										
Work Practice	Process Material				Reference Test Method					
Type	Code	Description								
Parameter		Limit Units				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	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
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						
☐ Intermittent Emission Testing			☐ Work Practice Involving Specific Operations						
☐ Ambient Air Monitoring			☒ 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		Process Material				Reference Test Method			
Type	Code	Description							
Parameter		Limit Units				Manufacturer Name/Model No.			
Code	Description	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
6	NYCRR	234	7						
☒ Applicable Federal Requirement			☐ State Only Requirement			☐ Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.		Contaminant Name			
G-XMEMPT		DFR		-					
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 #86 The Permittee shall operate an emergency diesel fire pump that has a nameplate capacity that shall not exceed a maximum power output of 276 brake horse power (BHP). The Permittee shall maintain documentation that would demonstrate that the emergency diesel fire pump was installed on or before 2001. Emission Limitations: The Permittee shall not discharge or cause to discharge emissions into the atmosphere in excess of the following emission limits for the emergency fire pump: NOx LAER emissions limit: 8.56 lb/hr. CO BACT emissions limit: 1.84 lb/hr. PM (filterable fraction only) BACT emissions limit: 0.6 lb/hr. PM10 (filterable + condensable fraction) BACT emissions limit: 0.6 lb/hr PM2.5 (filterable + condensable fraction) BACT emissions limit: 0.6 lb/hr GHG BACT (expressed as CO2e) emissions limit shall include combined emissions of CO2, CH4, and N2O, and shall not exceed 72 tons per year (based on 12-month rolling total). Compliance with the LAER and BACT requirements shall be demonstrated by implementing the following operating limitations and work practices: The maximum operating hours for the fire pump shall be limited to 500 hours per 12-month rolling total, as determined at the end of each calendar month. The annual permitted hours shall include testing, maintenance and emergency hours, combined. The Permittee shall install and maintain a non-resettable operating hour meter as required elsewhere in this permit. The emergency fire pump shall combust only ultra-low sulfur distillate (ULSD) fuel oil No.2 as required by regulation. The emergency fire pump shall comply with the applicable provisions of 40 CFR 63 Subpart ZZZZ.									
Work Practice		Process Material				Reference Test Method			
Type	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				
		44	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	44	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	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		Process Material				Reference Test Method			
Type	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)				

New York State Department of Environmental Conservation Air Permit Application



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8	-	4	6	4	2	-	0	0	1
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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			☐ Monitoring of Process or Control Device Parameters as Surrogate						
☐ Intermittent Emission Testing			☐ Work Practice Involving Specific Operations						
☐ Ambient Air Monitoring			☒ 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 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 tons per year (based on 12-month rolling total).									
Work Practice		Process Material				Reference Test Method			
Type	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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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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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				
-	-					
ERP (lbs/yr)	(lbs/hr)	PTE Emissions		Actual		
		(lbs/yr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.		Contaminant Name				
-	-					
ERP (lbs/yr)	(lbs/hr)	PTE Emissions		Actual		
		(lbs/yr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.		Contaminant Name				
-	-					
ERP (lbs/yr)	(lbs/hr)	PTE Emissions		Actual		
		(lbs/yr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.		Contaminant Name				
-	-					
ERP (lbs/yr)	(lbs/hr)	PTE Emissions		Actual		
		(lbs/yr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	

Compliance Plan ☐ Continuation Sheet(s)												
For any emission units which are <u>not in compliance</u> 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 ____ / ____ / ____									
Emission Unit	Process	Emission Source	Applicable Federal Requirement									
			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.								ERC (lbs/yr)			
								Netting		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		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](#)

SECTION 3: LIST OF EXEMPT ACTIVITIES

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List of Exempt Activities

Instructions
Applicants for Title V facility permits must provide a listing of each exempt activity, as described in 6 NYCRR Part 201-3.2(c), that is currently operated at the facility. This form provides a means to fulfill this requirement. In order to complete this form, enter the number and building location of each exempt activity. Building IDs used on this form should match those used in the Title V permit application. If a listed activity is not operated at the facility, leave the corresponding information blank.

Combustion			
Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(1)	Stationary or portable combustion installations where the furnace has a maximum heat input capacity less than 10 mmBtu/hr burning fuels other than coal or wood; or a maximum heat input capacity of less than 1 mmBtu/hr burning coal or wood. This activity does not include combustion installations burning any material classified as solid waste, as defined in 6 NYCRR Part 360, or waste oil, as defined in 6 NYCRR Subpart 225-2.		
(2)	Space heaters burning waste oil at automotive service facilities, as defined in 6 NYCRR Subpart 225-2, generated on-site or at a facility under common control, alone or in conjunction with used oil generated by a do-it-yourself oil changer as defined in 6 NYCRR Subpart 374-2.		
(3)(i)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located within the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 200 brake horsepower.		
(3)(ii)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 400 brake horsepower.		
(3)(iii)	Stationary or portable internal combustion engines that are gasoline powered and have a maximum mechanical power rating of less than 50 brake horsepower.		
(4)	Reserved.		
(5)	Gas turbines with a heat input at peak load less than 10 mmBtu/hour		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(6)	Emergency power generating stationary internal combustion engines, as defined in 6 NYCRR Part 200.1(cq), and engine test cells at engine manufacturing facilities that are utilized for research and development, reliability performance testing, or quality assurance performance testing. Stationary internal combustion engines used for peak shaving and/or demand response programs are not exempt.		
Combustion Related			
(7)	Non-contact water cooling towers and water treatment systems for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in direct contact with gaseous or liquid process streams.		
Agricultural			
(8)	Feed and grain milling, cleaning, conveying, drying and storage operations including grain storage silos, where such silos exhaust to an appropriate emissions control device, excluding grain terminal elevators with permanent storage capacities over 2.5 million U.S. bushels, and grain storage elevators with capacities above one million bushels.		
(9)	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.		
Commercial - Food Service Industries			
(10)	Flour silos at bakeries, provided all such silos are exhausted through an appropriate emission control device.		
(11)	Emissions from flavorings added to a food product where such flavors are manually added to the product.		
Commercial - Graphic Arts			
(12)	Screen printing inks/coatings or adhesives which are applied by a hand-held squeegee. A hand-held squeegee is one that is not propelled though the use of mechanical conveyance and is not an integral part of the screen printing process.		
(13)	Graphic arts processes at facilities located outside the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury whose facility-wide total emissions of volatile organic compounds from inks, coatings, adhesives, fountain solutions and cleaning solutions are less than three tons during any 12-month period.		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(14)	Graphic label and/or box labeling operations where the inks are applied by stamping or rolling.		
(15)	Graphic arts processes which are specifically exempted from regulation under 6 NYCRR Part 234, with respect to emissions of volatile organic compounds which are not given an A rating as described in 6 NYCRR Part 212.		
Commercial - Other			
(16)	Gasoline dispensing sites registered with the department pursuant to 6 NYCRR Part 612.		
(17)	Surface coating and related activities at facilities which use less than 25 gallons per month of total coating materials, or with actual volatile organic compound emissions of 1,000 pounds or less from coating materials in any 12-month period. Coating materials include all paints and paint components, other materials mixed with paints prior to application, and cleaning solvents, combined. This exemption is subject to the following: (i) The facility is located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury; and (ii) All abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices.		
(18)	Abrasive cleaning operations which exhaust to an appropriate emission control device.		
(19)	Ultraviolet curing operations.		
Municipal/Public Health Related			
(20)	Landfill gas ventilating systems at landfills with design capacities less than 2.5 million megagrams (3.3 million tons) and 2.5 million cubic meters (2.75 million cubic yards), where the systems are vented directly to the atmosphere, and the ventilating system has been required by, and is operating under, the conditions of a valid 6 NYCRR Part 360 permit, or order on consent.		
Storage Vessels			
(21)	Distillate fuel oil, residual fuel oil, and liquid asphalt storage tanks with storage capacities below 300,000 barrels.		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(22)	Pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions of volatile organic compounds to the outdoor atmosphere.		
(23)	External floating roof tanks which are of welded construction and are equipped with a metallic-type shoe primary seal and a secondary seal from the top of the shoe seal to the tank wall.		
(24)	External floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure less than 4.0 psi (27.6 kPa), are of welded construction and are equipped with one of the following: (i) a metallic-type shoe seal; (ii) a liquid-mounted foam seal; (iii) a liquid-mounted liquid-filled type seal; or (iv) equivalent control equipment or device.		
(25)	Storage tanks, including petroleum liquid storage tanks as defined in 6 NYCRR Part 229, with capacities less than 10,000 gallons, except those subject to 6 NYCRR Part 229 or Part 233.		
(26)	Horizontal petroleum or volatile organic liquid storage tanks.		
(27)	Storage silos storing solid materials, provided all such silos are exhausted through an appropriate emission control device. This exemption does not include raw material, clinker, or finished product storage silos at Portland cement plants.		
Industrial			
(28)	Processing equipment at existing sand and gravel and stone crushing plants which were installed or constructed before August 31, 1983, where water is used for operations such as wet conveying, separating, and washing. This exemption does not include processing equipment at existing sand and gravel and stone crushing plants where water is used for dust suppression.		
(29)(i)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are a permanent or fixed installation with a maximum rated processing capacity of 25 tons of minerals per hour or less.		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(29)(ii)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are a portable emission source with a maximum rated processing capacity of 150 tons of minerals per hour or less.		
(29)(iii)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are used exclusively to screen minerals at a facility where no crushing or grinding takes place.		
(30)	Reserved.		
(31)	Surface coating operations which are specifically exempted from regulation under 6 NYCRR Part 228, with respect to emissions of volatile organic compounds which are not given an A rating pursuant to 6 NYCRR Part 212.		
(32)	Pharmaceutical tablet branding operations.		
(33)	Thermal packaging operations, including, but not limited to, thermimage labeling, blister packing, shrink wrapping, shrink banding, and carton gluing.		
(34)	Powder coating operations.		
(35)	All tumblers used for the cleaning and/or deburring of metal products without abrasive blasting.		
(36)	Presses used exclusively for molding or extruding plastics except where halogenated carbon compounds or hydrocarbon solvents are used as foaming agents.		
(37)	Concrete batch plants where the cement weigh hopper and all bulk storage silos are exhausted through fabric filters, and the batch drop point is controlled by a shroud or other emission control device.		
(38)	Cement storage operations not located at Portland cement plants where materials are transported by screw or bucket conveyors.		
(39)(i)	Cold cleaning degreasers with an open surface area of 11 square feet or less and an internal volume of 93 gallons or less or, having an organic solvent loss of 3 gallons per day or less.		
39(ii)	Cold cleaning degreasers that use a solvent with a VOC content of five percent or less by weight, unless subject to the requirements of 40 CFR 63 Subpart T.		

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(39)(iii)	Conveyorized degreasers with an air/vapor interface smaller than 22 square feet (2 square meters), unless subject to the requirements of 40 CFR 63 Subpart T.		
(39)(iv)	Open-top vapor degreasers with an open-top area smaller than 11 square feet (1 square meter), unless subject to the requirements of 40 CFR 63 Subpart T.		
Miscellaneous			
(40)	Ventilating and exhaust systems for laboratory operations. Laboratory operations do not include processes having a primary purpose to produce commercial quantities of materials.		
(41)	Exhaust or ventilating systems for the melting of gold, silver, platinum and other precious metals.		
(42)	Exhaust systems for paint mixing, transfer, filling or sampling and/or paint storage rooms or cabinets, provided the paints stored within these locations are stored in closed containers when not in use.		
(43)	Exhaust systems for solvent transfer, filling or sampling, and/or solvent storage rooms provided the solvent stored within these locations are stored in containers when not in use.		
(44)	Research and development activities, including both stand-alone and activities within a major facility, until such time as the administrator completes a rule making to determine how the permitting program should be structured for these activities.		
(45)	The application of odor counteractants and/or neutralizers.		
(46)	Hydrogen fuel cells.		
(47)	Dry cleaning equipment that uses only water-based cleaning processes or those using liquid carbon dioxide.		
(48)	Manure spreading, handling and storage at farms and agricultural facilities.		

SECTION 4: METHODS USED TO DETERMINE COMPLIANCE

**GREENIDGE GENERATION
METHODS USED TO DETERMINE COMPLIANCE
TITLE V PERMIT RENEWAL APPLICATION
CURRENT TITLE V PERMIT EFFECTIVE DATE: APRIL 25, 2019**

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.

**GREENIDGE GENERATION
METHODS USED TO DETERMINE COMPLIANCE
TITLE V PERMIT RENEWAL APPLICATION
CURRENT TITLE V PERMIT EFFECTIVE DATE: APRIL 25, 2019**

Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
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 30 th and July 30 th 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 30 th of each year for the previous calendar year.
7	6 NYCRR 202-2.1	Facility	Emission statements shall be submitted on or before April 15 th 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 15 th of each year for actual air emissions from the previous calendar year.

**GREENIDGE GENERATION
METHODS USED TO DETERMINE COMPLIANCE
TITLE V PERMIT RENEWAL APPLICATION
CURRENT TITLE V PERMIT EFFECTIVE DATE: APRIL 25, 2019**

Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
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.

**GREENIDGE GENERATION
METHODS USED TO DETERMINE COMPLIANCE
TITLE V PERMIT RENEWAL APPLICATION
CURRENT TITLE V PERMIT EFFECTIVE DATE: APRIL 25, 2019**

Previous Condition Number	Applicable Requirement	Permit Level	Description of Requirement	Methods used to determine compliance
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: 00NY998-00-0 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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29	6 NYCRR 231-7.5	Facility	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.	Reports of CO ₂ e emissions will be calculated and submitted to EPA on a quarterly and semi-annual basis.
30	6 NYCRR 231-7.5	Facility	Facility-wide NO _x is limited to no more than 153.8 tons per 12-month rolling total. This facility wide limit includes the NO _x emissions from Boiler #6, emergency diesel generator, emergency diesel fire pump , and natural gas heater.	Control equipment and compliance monitoring through CEMS satisfies this requirement. Reports of NO _x emissions will be submitted to EPA and NYSDEC on a quarterly and semi-annual basis, respectively.

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31	6 NYCRR 231-7.5	Facility	Facility-wide greenhouse gas emissions are limited to 641,878 tons/year of CO₂e on a 12-month rolling total basis, rolled monthly. This facility wide limit includes the CO₂e emissions from Boiler #6, emergency diesel generator, emergency diesel fire pump, and natural gas heater. For calculating the actual tons of CO₂e from Boiler #6, the Permittee shall use the procedures set forth in 40 CFR Part 98 to determine resulting GHG emissions (as CO₂e) based on the combination of measured by CEMS CO₂ emissions and calculated CO₂e of CH₄ and N₂O. For the purposes of showing compliance with the GHG BACT emission limits, the CH₄ and N₂O emission factors listed in 40 CFR Part 98, Tables C-1 and C-2, and the global warming potential factors listed in 40 CFR Part 98, subpart A, Table A-1 shall be used. The actual CO₂e from the emergency diesel generator, emergency diesel fire pump, and natural gas heater shall be calculated as specified elsewhere in this permit.	Control equipment and compliance monitoring through CEMS satisfies this requirement. Reports of CO ₂ e emissions will be submitted to EPA on an annual, semi-annual basis, and quarterly basis.
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.

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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.
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.

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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.
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.

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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.
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

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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 16 th and the DEC was informed via mail on November 6 th , 2017. Greenidge has fulfilled this permit condition.
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 16 th , 2019 RATA verified the actual emission rate of <0.0004 lb/MMBtu

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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.
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.

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47	6 NYCRR 231-7.5	Emission Unit: G-00004	The facility will develop and implement a Leak Detection and Repair (LDAR) Program for the above ground piping on the facility property to minimize fugitive Greenhouse Gases (GHGs) from the natural gas pipeline system. Additionally, the facility will conduct a one-time Energy Assessment (EA) following the procedures specified in 40 CFR Part 63 Subpart DDDDD, Table 3. 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. An energy assessment has been conducted in accordance with 40 CFR Part 63 Subpart DDDDD in April 2017 thereby fulfilling this permit condition.
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 , NO _x , CO, NH ₃ , and CO ₂ emissions for each affected unit.	Greenidge has continuous emissions monitors systems (CEMS) in place to measure SO ₂ , NO _x , 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 SO ₂ and NO _x emissions in the appropriate units of measurement (i.e., lb/hr for SO ₂ and lb/MMBtu for NO _x).	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 NO _x 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: - Steam turbine's energy output in megawatts hour (MW-hour) on an hourly basis. - The volume of natural gas consumed on an hourly basis. - The amount of each type of biomass charged. - Actual heat input rate (MMBtu/hr), which shall be determined as follows: - 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. - 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. - 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 NH ₃ , SO ₂ or CO ₂ concentration, stack gas volumetric flow rate, NO _x emission rate, NO _x concentration, percent moisture, or opacity, or to meet the requirements of §75.21 or appendix B to this part, the owner or operator shall recertify the continuous emission monitoring system or continuous opacity monitoring system, according to the procedures in this paragraph.	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 NO_x add-on emission controls that do not elect to use the approved site-specific parametric monitoring procedures for calculation of substitute data, the information in 40 CFR 75.55(b)(3); and the information recorded under 40 CFR 75.56(a)(7) 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 NO_x emission rate (pounds per million BTU, rounded to the nearest hundredth) during the quarter and cumulative NO_x emission rate for the calendar year. (4) Tons of CO₂ emitted during the quarter and cumulative CO₂ emissions for the calendar year. (5) Total heat input (million BTU) for the quarter and cumulative heat input for the calendar year.	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 SO₂ emitted, average NO_x emission rate, cumulative NO_x emission rate for the calendar year, tons of CO₂ emitted, cumulative CO₂ 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 emissions of PM_{2.5} from Unit G-00004 must not exceed 0.00825 lb/MMBtu. An initial stack test to demonstrate compliance with the PM_{2.5} emission rate (comprised of 3 test runs of not less than 1 hour sampling period per test run), must be completed within 180 days of the beginning of commercial production of power, but no later than 180 days after initial startup of Boiler #6. For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. In the event that during compliance performance testing it would be determined that the Permittee cannot meet the 0.00825 lb/MMBtu firing natural gas, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean. The new (adjusted) levels of total PM_{2.5} emission limits cannot exceed 0.021 lb/MMBtu. The exceedance of the PM_{2.5} limit of 0.00825 lb/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.021 lb/MMBtu shall not be considered violations of the permit conditions. Additional compliance testing for PM_{2.5} emissions from Unit G-00004 will be required annually. 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). To demonstrate ongoing compliance with the PM-2.5 emission limitation, the Facility will install a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to PM-2.5 emissions as measured during previous stack tests. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9 test.	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. To demonstrate ongoing compliance with the particulate emission limitation, the Facility will install a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to particulate emissions as measured during previous stack tests.

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66	6 NYCRR 231-7.5	Emission Unit: G-00004 Process: P65	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. The new (adjusted) levels of total PM-10 emission limits cannot exceed 0.021 lb/MMBtu. The exceedances of the PM-10 limit of 0.00825 lb/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.021 lb/MMBtu shall not be considered violations of the permit conditions. Additional compliance testing for PM-10 emissions from Unit G-00004 will be conducted annually. While firing natural gas only emissions of PM-10 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-10 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run). To demonstrate ongoing compliance with the PM-10 emission limitation, the Facility will install a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to PM-10 emissions as measured during previous stack tests. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9 test.	Control equipment and compliance with permit terms ensures that PM-10 emissions do not exceed 0.00825 lb/MMBtu. Reports of PM-10 emissions are submitted on a semi-annual basis. The July 16th, 2019 RATA verified the actual emission rate of PM₁₀ to be <0.0006 lb/MMBtu. To demonstrate ongoing compliance with the particulate emission limitation, the Facility will install a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to particulate emissions as measured during previous stack tests.

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67	6 NYCRR 231-7.5	Emission Unit: G-00004 Process: P65	While firing natural gas only from Unit G-00004 emissions of PM-2.5 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 operating 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. While firing natural gas only from Unit G-00004 are must not exceed 0.002 lb/MMBtu. Based on initial and annual stack test results in 2017, 2018, and 2019 demonstrates that the Facility is in compliance with the particulate emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run). To demonstrate ongoing compliance with the particulate emission limitation, the Facility will install a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to particulate emissions as measured during previous stack tests. The flow meter will be maintained in accordance with manufacturer's specifications. In the event that the continuous flow meter is nonoperational for an extended period of time (14 consecutive operating days), the Facility will perform a Method 9 test.	Control equipment and compliance with permit terms ensures that PM-2.5 emissions do not exceed 0.002 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 to be <0.0006 lb/MMBtu. To demonstrate ongoing compliance with the particulate emission limitation, the Facility will install a continuous flow meter. The continuous flow meter will record stack flow as a surrogate to particulate emissions as measured during previous stack tests.

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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% O ₂ on a 24-hour weighted block average. This equates to 0.075 lb/MMBtu on a 24-hour weighted block average. The previously permitted BACT limit of 50 ppm was unattainable concurrently with NO _x LAER, therefore, 100ppm or 0.075 lb CO/MMBtu is BACT while complying with NO _x 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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72	6 NYCRR 231-7.5	Emission Unit: G-00004 Process: P75	While co-firing natural gas and up to 19% biomass emissions of PM _{2.5} from Unit G-00004 must not exceed 0.031 lb/MMBtu. An initial stack test to demonstrate compliance with the PM _{2.5} emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed within 180 days of introduction of biomass co-firing for the purposes of commercial production of power, but no later than 180 days after the initial startup of Boiler #6. For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. In the event that during the initial compliance performance testing it would be determined that the Permittee cannot meet the 0.031 lb/MMBtu co-firing natural gas and biomass, the NYSDEC may adjust each emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of total PM _{2.5} emission limits cannot exceed 0.0419 lb/MMBtu. The exceedances of the PM _{2.5} limit of 0.031 lb/MMBtu that may occur during the initial compliance performance testing and, that would be below 0.0419 lb/MMBtu shall not be considered violations of the permit conditions. Additional compliance testing for PM _{2.5} emissions from Unit G-00004 will be required annually.	Control equipment and compliance with permit terms ensures that PM-2.5 emissions do not exceed 0.002 lb/MMBtu. Reports of PM-2.5 emissions will be submitted on a semi-annual basis.

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73	6 NYCRR 231-7.5	Emission Unit: G-00004 Process: P75	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.	Control equipment and compliance with permit terms ensures that particulate emissions do not exceed 0.01 lb/MMBtu. Reports of particulate emissions will be submitted on a semi-annual basis.

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74	6 NYCRR 231-7.5	Emission Unit: G-00004 Process: P75	While co-firing natural gas and biomass emissions of PM-10 from Unit G-00004 must not exceed 0.031 lb/MMBtu. An initial stack test to demonstrate compliance with the PM-10 emission rate (comprised of 3 test runs of not less than 1-hour sampling period per test run), must be completed within 180 days of the beginning of commercial production of power, but no later than 180 days after initial startup of Boiler #6. For the purposes of this permit: (1) "beginning of commercial production of power" shall mean the first time when Unit #4 (which is the combination of the existing turbine steam generator and Boiler #6) achieves minimum operating load of 40 Megawatts; and (2) startup means the setting in operation of an affected facility for any purpose, as defined at 40 CFR 60.2. In the event that during the initial compliance performance testing it would be determined that the Permittee cannot meet the 0.031 lb/MMBtu co-firing natural gas and biomass, the NYSDEC may adjust the emission limit upward at a level not to exceed two standard deviations above the mean (which is the average of the three stack test runs of no less than 1-hour sampling period for each test run). The new (adjusted) levels of PM-10 emission limits cannot exceed 0.0419 lb/MMBTU. The new limits can only be established based on the NYSDEC's and EPA's review of the performance compliance testing data. The exceedances of the PM-10 limits of 0.031 lb/MMBTU that may occur during the initial compliance performance testing and, that would be below 0.0419 lb/MMBtu shall not be considered violations of the permit conditions. Additional compliance testing for PM-10 emissions from Unit G-00004 will be conducted annually.	Control equipment and compliance with permit terms ensures that PM-10 emissions do not exceed 0.031 lb/MMBtu. Reports of PM-10 emissions will be submitted on a semi-annual basis.

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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 and 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% O ₂ 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% O ₂ 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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84	6 NYCRR Subpart 231-7	G-XEMPT	Visible emissions from Emergency Generator, Fire Pump and Natural Gas Heater combustion sources shall not exceed exhibit greater than 20% opacity (based on six minute average) except for one six-minute period per hour of no more than 27% opacity. This is a BACT requirement. Initial Compliance Test: The Permittee shall conduct initial compliance performance testing for visible emissions no later than 180 days of startup of the emergency generator, emergency fire pump and natural gas heater. 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 ₂ O emission factors used for the calculation of the GHG emissions (as CO ₂ e) 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 ₂ e) 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 ₂ O emission factors and fuel heating value specified in this permit; GHG emissions (as CO ₂ e) shall be determined by adding the CO ₂ , CH ₄ , and N ₂ O 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 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).	Greenidge operates a natural gas heater with a maximum heat input rate of less than 5 MMBtu/hr 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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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 CO₂ budget source that has excess emissions in any control period shall: (1) forfeit the CO₂ allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO₂ offset allowances may not be used to cover any part of such excess emissions; and (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).	Greenidge did not exceed its CO₂ budget allowances for this reporting period. Greenidge understands that it will forfeit CO₂ allowances and pay any fines or penalties in the event of excess emissions.

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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 CO₂ authorized account representative for the source and each CO₂ budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4 (ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO₂ Budget Trading Program.
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 NO _x per startup/shutdown event. The 05/31/2018 NO _x Emissions Startup and Shutdown Plan while firing 100% natural gas (process P65) has been approved. Startup is defined as the period beginning with the initial firing of Unit G-00004 on natural gas and ending at the time when the Unit has achieved minimum generating load and the required air pollution control equipment is operational. Shutdown is defined as any planned cessation of electricity generation while firing natural gas only.	The facility maintains records of emissions during SU/SD events.
1-5	6 NYCRR 201-5.4	State Only : Emission Unit	NO _x 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.	The Startup/shutdown plan was submitted on 05/31/2018 and approved on or about 11/01/2018.