

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:

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

GREENIDGE STATION 590 PLANT RD DRESDEN, NY 14441

Air Compliance Contact:

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

Facility Location: in TORREY in YATES COUNTY

Facility Principal Reference Point: NYTM-E: 340.346 NYTM-N: 4727.025

Latitude: 42°40'44.9" Longitude: 76°56'55.0"

Project Location: 590 Plant Road - Approximately 800 feet south of the Village of Dresden

Authorized Activity:

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

The Greenidge Generating Station is a Major Stationary Source, and is required to obtain a Title V Permit as specified in 6 NYCRR Part 201-6. The Department has applied 6 NYCRR Part 231 Prevention of Significant Deterioration requirements to emissions of carbon monoxide (CO), particulate matter (PM), particulate matter less than 10 microns in diameter (PM10), particulate matter less than 2.5 microns in diameter (PM2.5) and greenhouse gases (GHG). Nonattainment New Source Review has been applied to emissions of oxides of nitrogen (NOx). Capping provisions have been included for emissions of sulfur dioxide (SO2) and volatile organic compounds (VOCs) of 39 tons per year and 49 tons per year, respectively. A Continuous Emission Monitoring System (CEMS) will be used to monitor compliance with NOx, CO, SO2, ammonia (NH3), and GHGs requirements. A Continuous Opacity Monitoring System (COMS) will be used to monitor compliance with opacity requirements, and annual stack testing will be required for demonstrating compliance with the emission limits for PM, PM10, and PM2.5. Greenidge Generation has surrendered 177 tons of NOx emission reduction credits (ERC) to offset the 153.8 tons of potential NOx emissions associated with this permit action. The conversion and operation of the Greenidge Generating Station boiler no. 6 is not subject to New Source Performance Standards.

Greenidge Generation LLC will operate Unit 4 electric generating operations without the use of coal or fuel oil. Electric generation is powered by a boiler, with a maximum heat input of 1,117 million BTU per hour. The boiler will burn natural gas, with the ability to co-fire up to 19% biomass, which may



untreated wood and resinated wood. With conversion of all generating operations to use natural gas as the primary fuel with up to 19% biomass co-firing, and operations as proposed, the Greenidge Generating Station will primarily emit contaminants from boiler powered electric generation and ash handling operations.

The facility is equipped with a suite of air pollution control (both pre-combustion and post-combustion) systems to control pollutant nitrogen oxides, carbon monoxide, particulate matter (PM, PM10 and PM2.5), and sulfur dioxide emissions from facility operations. Boiler NOx emissions will be controlled by over fire air, low NOx Burners/flue gas recirculation/tangential low NOx firing, optimized selective non-catalytic reduction, and optimized selective catalytic reduction. Boiler particulate emissions will be controlled by a fabric filter baghouse. Ash handling operations convey boiler fly ash associated with the use of biomass pneumatically to a fly ash storage silo with a baghouse to control particulate emissions. The ash is then processed for proper disposal. Minor amounts of particulates will also be emitted from a pollution control system supporting the boiler NOx emission control system. Emissions of CO are controlled by staged combustion and over fire air.

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

Permit Authorizations

Air Title V Facility - Under Article 19

Permit ID 8-5736-00004/00017

New Permit

Effective Date: 9/7/2016

Expiration Date: 9/6/2021

Title IV (Phase II Acid Rain) - Under Article 19

Permit ID 8-5736-00004/00016

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New Permit

Effective Date: 9/7/2016

Expiration Date: 9/6/2021

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: SCOTT SHEELEY, Regional Permit Administrator

Address:

NYSDEC Region 8 Headquarters

6274 E Avon-Lima Rd Avon, NY 14414

Authorized Signature:

Scott E. Sheeley

Date 9/08/2016

Page 2 of 6



include untreated wood and resinated wood. With conversion of all generating operations to use natural gas as the primary fuel with up to 19% biomass co-firing, and operations as proposed, the Greenidge Generating Station will primarily emit contaminants from boiler powered electric generation and ash handling operations.

The facility is equipped with a suite of air pollution control (both pre-combustion and post-combustion) systems to control pollutant nitrogen oxides, carbon monoxide, particulate matter (PM, PM10 and PM2.5), and sulfur dioxide emissions from facility operations. Boiler NOx emissions will be controlled by over fire air, low NOx Burners/flue gas recirculation/tangential low NOx firing, optimized selective non-catalytic reduction, and optimized selective catalytic reduction. Boiler particulate emissions will be controlled by a fabric filter baghouse. Ash handling operations convey boiler fly ash associated with the use of biomass pneumatically to a fly ash storage silo with a baghouse to control particulate emissions. The ash is then processed for proper disposal. Minor amounts of particulates will also be emitted from a pollution control system supporting the boiler NOx emission control system. Emissions of CO are controlled by staged combustion and over fire air.

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

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Air	Title	\mathbf{V}	Facility	_	Under	Article	19
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Permit ID 8-5736-00004/00017

New Permit Effective Date: 9/7/2016 Expiration Date: 9/6/2021

Title IV (Phase II Acid Rain) - Under Article 19

Permit ID 8-5736-00004/00016 ()

New Permit Effective Date: 9/7/2016 Expiration Date: 9/6/2021

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: SCOTT SHEELEY, Regional Permit Administrator

Address: NYSDEC Region 8 Headquarters

6274 E Avon-Lima Rd Avon, NY 14414

Authorized Signature:	Date/
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Distribution List

DALE IRWIN

Permit Components

AIR TITLE V FACILITY PERMIT CONDITIONS

TITLE IV (PHASE II ACID RAIN) PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Permit Attachments

Title IV Acid Rain Permit Application Air Title V Facility Permit

TITLE IV (PHASE II ACID RAIN) PERMIT CONDITIONS

1. Phase II Permit Application 40CFR 72.

- a. The owners and operators shall comply with all of the standard requirements and special provisions set forth on the attached Phase II Permit Application for each affected unit.
- b. This permit does not relieve the permittee from compliance with applicable state and federal air pollution control rule and regulations.
- c. The permittee is required to have sufficient SO₂ allowances in its possession to cover the SO₂ emissions generated from this facility.
- d. The facility must continuously monitor, maintain, and certify monitoring systems for NOx emissions, CO₂ or O₂ emissions, and volumetric flow rate in accordance with the requirements of 40CFR part 75. The facility shall monitor for emissions of SO₂ in accordance with the provisions of 40 CFR part 75. All required reports as applicable shall be submitted to:

U.S. Environmental Protection Agency, Headquarters

@ Postal mailing address: **or** @ Overnight delivery address:

U.S. Environmental
Protection Agency
Acid Rain Program (6204J)

1200 Pennsylvania Avenue, NW

U.S. Environmental
Protection Agency
Acid Rain Program (6204J)
1310 L Street, NW



Washington, DC 20460

Washington, DC 20005

U.S. Environmental Protection Agency, Region 2 Region II Monitoring & Assessment Branch AWQAT (MS 220) 2890 Woodbridge Ave Edison, NJ 09937

Air Program NYSDEC Headquarters 625 Broadway Albany, NY12233

Regional Air Pollution Control Engineer NYSDEC Region 8 Headquarters 6274 E Avon-Lima Rd Avon, NY14414

2. SO2 Allowance Allocations 40CFR 73. Total Phase II SO2 Allowances (1) from Table 2 of 40 CFR 73

		NOx limit (2) lb/mmBTU
Boiler 6 (Title V Unit 4)	3190	

NOTES:

- (1) The number of allowances actually held by an affected source in a unit account may differ from the number allocated by the U.S. EPA; however, this would not necessitate a revision to the unit SO2 allowance allocations identified in this permit (See 40 CFR 72.84).
- (2) The provisions of 40 CFR Part 76 do not apply to this facility.



GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. Facility Inspection by The Department ECL 19-0305 The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

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

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

- 2. Relationship of this Permit to Other Department Orders and Determinations ECL 3-0301 (2) (m) Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.
- 3. Applications For Permit Renewals, Modifications or Transfers 6 NYCRR 621.11 The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator NYSDEC Region 8 Headquarters 6274 E Avon-Lima Rd Avon, NY14414

- **4. Submission of Renewal Application 6 NYCRR 621.11** The permittee must submit a renewal application at least 180 days before permit expiration for the following permit authorizations: Title IV (Phase II Acid Rain), Air Title V Facility.
- **5. Permit Modifications, Suspensions and Revocations by the Department 6 NYCRR 621.13** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:
 - a. materially false or inaccurate statements in the permit application or supporting papers;
 - b. failure by the permittee to comply with any terms or conditions of the permit;
 - c. exceeding the scope of the project as described in the permit application;
 - d. newly discovered material information or a material change in environmental conditions,



relevant technology or applicable law or regulations since the issuance of the existing permit;

- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.
- **6. Permit Transfer 6 NYCRR 621.11** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

Item E: SIC Code Authorized Activity By Standard Industrial Classification Code: 4911- Electrical Services.



EPA Certificate of Representation

	For more information, see instructions and 40 CFR 72 97.516, 97.616, 97.716, or a comparable state regulation	24, 96.113, 96.213, 96.313, 97.113, 97.213, 97.313, 97.416, n, as applicable.					
	This submission is: $f X$ New $oxedsymbol{\square}$ Revised (re	evised submissions must be complete; see instructions)					
FACILITY (SOURC INFORMATION	E)						
STEP 1 Provide information for the facility	Facility (Source) Name GREENIDGE GENERATING S	TATION State NEW YORK Plant Code 2527					
(source).	County Name YATES						
	Latitude 42.6789	Longitude -76.9483					
STEP 2 Enter requested information for	Name DALE IRWIN	Title PRESIDENT					
the designated representative.	he lesignated						
•	Mailing Address 590 PLANT ROAD, DRESDEN, NY	14441					
	Phone Number (315) 536-3423	Fax Number					
	E-mail address dirwin@greenidgellc.com						
STEP 3 Enter requested information for	Name	Title					
the alternate designated representative.	Company Name						
·	Mailing Address	14441 Fax Number					
	Phone Number	Fax Number					
	E-mail address						

UNIT INFORMATION

STEP 4: Complete a separate page 2 for each unit located at the facility identified in STEP 1 (i.e., for each boiler, simple 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 Pr	· · · _	Acid Rain ☐ TR NO _x Annual	X CAIR NO _x Annual X C. TR NO _x Ozone Season T		AIR NO _X Ozo	one Season		
					Generator ID Number (Maximum 8 characters)	Acid Rain Nameplate Capacity (MWe)	CAIR/Transport Rule Nameplate Capacity (MWe)	
					4	105.9	105.9	
		Source Category EL	ECTRIC UTILITY					
Unit ID# 6	Unit Type T	NAICS Code FOSS	BIL FUEL ELECTRIC POWER GE	ENERATION				
Date unit began (or will begin) serving any generator producing electricity for sale (including test generation) (mm/dd/yyyy): Check One: Actual Projected X Check One: Yes No X						If this is the first time the unit has been identified on the Certificate of Representation for this facility, was the unit moved from another facility? Check One: Yes No		
Company Name: GREENIDGE GENERATION LLC						Owner X Operator		
Company Name: GREENIDGE GENERATION LLC						X Owner Operator		
Company Name:						Owner Operator		
Company Name:						Owner Operator		
Company Name:						Owner Operator		

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans:

STEP 3, Cont'd.

- (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;
- 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.

Certification

STEP 4 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	
Signatu	(1)	Date 3/15/2016

TEP 5: Read the appropriate certification statements, 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) NOx 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.

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, pre-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 NOX allowances and proceeds of transactions involving CAIR NOX 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 NOX allowances by contract, CAIR NOX allowances and proceeds of transactions involving CAIR NOX allowances will be deemed to be held or distributed in accordance with the contract.

Clean Air Interstate Rule (CAIR) SO, Trading Program

. 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 SO_2 source and each CAIR SO_2 unit at the source (i.e., the source and each unit subject to the SO_2 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.

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	Date 3/15/2016
Signature (Alternate Designated Representative)	Date