

Facility DEC ID: 2610400132

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6104-00132/00009
Effective Date: 01/05/2021 Expiration Date: 01/04/2026

Permit Issued To: STATE UNIVERSITY OF NEW YORK
STATE UNIVERSITY PLAZA
381 BROADWAY
ALBANY, NY 12246

Contact: BRIAN PITT
DOWNSTATE MEDICAL CENTER
450 CLARKSON AVE
BROOKLYN, NY 11203
(718) 270-2345

Facility: DOWNSTATE MEDICAL CENTER
450 CLARKSON AVE
BROOKLYN, NY 11203-2098

Contact: BRIAN PITT
DOWNSTATE MEDICAL CENTER
450 CLARKSON AVE
BROOKLYN, NY 11203
(718) 270-2345

Description:

PERMIT DESCRIPTION
Downstate Medical Center
DEC ID # 2-6104-00132/00009 (Ren #4)

SUNY Downstate Medical Center is an academic and medical center for health education, research, and patient care. The facility operates several sources of air pollution including boilers, hydrogen fuel cell for electricity production, emergency generators, fuel oil tanks and other exempt sources. The facility is an existing Air Title V facility permitted to operate a few emission sources, including five (5) identical Victory Energy boilers with a maximum heat input of 50 MM Btu/hr each in Emission Unit 0-U0007. The boilers are identified as Emission Sources S0011, S0012, S0013, S0014 & S0015. The five (5) boilers are dual-fuel fired, operating on natural gas (Process NG7) and # 2 distillate fuel oil (Process 2F7), one boiler at 10.461 MM Btu/hr in Emission Unit U-00003, six (6) generators, and a 200 lbs/hr crematorium on site.

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The following is a list of sources in operation, modified, removed and added/replaced. Sources are represented with their emission unit and emission sources.

Operational Emission Sources at the facility:

Emission Unit 0-U0002 consists of a 200 lb/hr JK Environmental SP-300 crematorium (Emission Source S0006), which processes cadavers (Process 002). The flue gas from the crematorium exits through a dedicated stack, identified as Emission Point E0002. The secondary chamber combustion temperature in the crematorium is continuously monitored and recorded by a Honeywell UDC2000 Monitor/Honeywell DR4200GP Recorder.

Emission Unit 0-U0003 consists of Boilers 6, a 10.46 MM Btu/hr dual fuel fired boiler (Emission Source S0007). This boiler supplies steam/hot water in the Basic Science Building and burns natural gas (Process NAT) as the primary fuel and #2 fuel oil (Process 2FO) as a secondary fuel. The flue gases from this new boiler exit through a stack, identified as Emission Point E0003.

Emission Unit 0-U0004 consists of Boilers 7, 8 & 9, three 3.0 MM Btu/hr each dual fuel boilers (Emission Sources S0008, S0009 & S0010) burning #2 fuel oil (Process FO2) and natural gas (Process NG1), and one exempt 1500 KW emergency generator (Emission Source GEN01) burning #2 fuel oil (Process GEN). These emission sources are located at the new Public Health Academic Building (PHAB) or as previously was known as the "New Academic Building (NAB)." This 1500 KW generator has been reverted back to emergency operation only. The facility has submitted the EPA "certificate of conformity" for the 1500 KW Cummins emergency generator (Emission Source GEN01) burning #2 fuel oil (Process GEN), which is the manufacturer's certification of compliance with the EPA's emission standards specified in 40 CFR Subpart IIII for major pollutants. This 1500 KW emergency generator (Emission Source GEN01) is allowed to operate up to 500 hours annually, and is exempt according to 6 NYCRR 201-3.2 (c).

The flue gases from the three boilers (Emission Sources S0008, S0009 & S0010) exit through their individual stack, identified as Emission Points 0NAB1, 0NAB2 & 0NAB3; respectively. The flue gases from the new 1500 KW emergency generator (Emission Source GEN01) exit through its individual stack, identified as Emission Point 0NAB4.

Emission Unit 0-U0005 consists of four identical exempt 750 KW (1,141 bhp) Caterpillar Model C27 each emergency generator (Emission Sources GEN02, GEN03, GEN04 & GEN05). These engines have been reverted back to

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emergency operation only. Each of these four exempt stationary generator is a diesel 2013 Caterpillar Model C27, compression ignition rated at 750 KW (1,141 bHP), and EPA Tier II emission level certified. Process GN1 is the combustion of diesel fuel in these 4 exempt emergency engines. All emergency generators meet the emission limitations found in 40 CFR 60 Subpart IIII. The facility has submitted the EPA "certificate of conformity" for each of the 4 replacement generators, which is the manufacturer's certification of compliance with the EPA's emission standards specified in 40 CFR Subpart IIII for major pollutants. Each generator will be operated a maximum of 500 hours/yr and is exempt according to 6 NYCRR 201-3.2 (c).

The flue gases from the four 750 KW each emergency generators (Emission Sources GEN02, GEN03, GEN04 & GEN05) exit through their individual stacks, identified as Emission Points 0GEN2, 0GEN3, 0GEN4 & 0GEN5; respectively.

There are also four (4) identical 275 gallon Day tanks located in the generator room and is used for these four emergency generators.

Emission Unit 0-U0007 is the main boiler plant and consists of Boilers 1, 2, 3, 4 & 5, five (5) identical Victory Energy VS-3 boilers with a maximum heat input of 50 MM Btu/hr each. The boilers are identified as Emission Sources S0011, S0012, S0013, S0014 and S0015. The five (5) boilers are dual-fuel fired, operating on natural gas (Process NG7) and # 2 distillate fuel oil (Process 2F7). The start-up date was 12/01/2018. The emissions from these five boilers are exhausted through the existing stack identified as Emission Point E0007. The NOx emissions are based on the stack test report, in which Boilers 4 & 5 were stack tested on 12/14/2018, and Boiler 1,2 & 3 were stack tested on 4/18/2019 for NOx and PM.

Emission Unit 0-EXMPT consists of a Bloom Energy 1.8 MW Hydrogen Fuel Cell Energy Saver 5 supplied with natural gas (Process FC1) to produce electricity for the campus. The fuel cell is 123.5 feet long, 24 feet wide, and 7 feet tall. Because of this, the fuel cell has twenty-six (26) points that will release emissions. This unit was installed on May 1, 2018. Associated with Emission Unit 0-EXMPT is Emission Point FC001, Process FC1 and Emission Source FC001.

The emission unit is exempt under 6 NYCRR 201-3.2(c)(46). The limited emission from the fuel cell is 26.81 lbs/yr of NOx and 250.71 lbs/yr of VOC. The Fuel Cell is in the Main Building/Campus, in the corner of Lenox Road and E 37th Street.

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Removed or replaced Emission Sources at the facility:

Emission Unit 0-U0001, which consisted of five (5) Combustion Engineering boilers, each with a maximum heat input of 42 MM Btu/hr, identified as Emission Sources S0001, S0002, S0003, S0004 & S0005. These five external combustion boilers operated on dual-fuel, natural gas (Process GAS) and #6 fuel oil (Process OIL). Three of the boilers were installed in 1954, one in 1966 and the other in 1970. The flue gases from these boilers exited through a common stack, identified as Emission Point E0001. The operation end date for these five (5) boilers was 2/15/2018.

Emission Unit 0-U0006, which would have consisted of an Ethylene Oxide Sterilization unit with an abator to sterilize medical equipment, was never installed.

Emission Unit 0-TEMP1, which consisted of two (2) temporary 50 MM Btu/hr (Emission Sources TMPB1 & TMPB2) which operated on natural gas (Process NGT) and # 2 distillate fuel oil (Process 2FT), which provided steam and heat load during the boiler replacement project (beginning 12/1/2015). These two temporary boilers were removed on 10/1//2019.

The 2000 KW temporary generator (Emission Source TEMPG) in Emission Unit 0-U0005 was removed on 9/16/2019.

Added Emission Sources at the facility:

The facility has added one exempt emergency generator rated at 1,111 KW) in the Basic Science Building, which will operate less than 500 hours per year.

The cremation unit (crematorium) in Emission Unit 0- U0002 at the facility is subject to 6 NYCRR 219-4 for the particulate emission limit of 0.08 grains per dry standard cubic foot (corrected to 7% O₂), the 20% opacity limit, the certification and training of the operator, the allowed materials and its charging rate, and inspection and maintenance. During the operation, the crematory is required to maintain a one-hour average temperature of at least 1600 degrees Fahrenheit in the secondary combustion chamber, with a minimum residence time for combustion gases of at least one second, at all times remains are being cremated. In addition, the owner or operator of a crematory must install, operate, calibrate, and maintain, in accordance with manufacturer's instructions, instruments meeting specifications for continuously monitoring and recording the secondary chamber combustion temperature.

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Boiler # 6, the 10.46 MM Btu/hr dual fuel fired Cleaver Brooks boiler (Emission Source S0007) in Emission Unit 0-U0003 is subject to the NO_x RACT for small boilers, which is the annual tune-up of the boiler. This boiler is also subject to 40CFR 60.40c(d), NSPS Subpart Dc.

Boilers # 7, 8 & 9, the three 3.0 MM Btu/hr each dual fuel boilers (Emission Sources S0008, S0009 & S0010) in Emission Unit 0-U0004 are subject to the NO_x RACT for small boilers, 6 NYCRR 227-2.4 (d), which is the annual tune-up of the boiler.

The four identical 750 KW Caterpillar emergency generators (Emission Sources GEN02, GEN03, GEN04 & GEN05) in Emission Unit 0-U0005 and the 1500 KW emergency generator (Emission Source GEN01) in Emission Unit 0-U0004 are subject to meet the emission limitations and applicable portions found in 40 CFR 60 Subpart III for stationary compression ignition internal combustion engines. These four emergency generators are also subject to applicable portions of 40 CFR 63, Subpart ZZZZ for reciprocating internal combustion engines. Each generator will be operated a maximum of 500 hours/yr and is required to follow the maintenance procedures and requirements.

Boilers # 1, 2, 3, 4 & 5, the identical Victory Energy VS-3 boilers with a maximum heat input of 50 MM Btu/hr each Emission Sources S0011, S0012, S0013, S0014 and S0015 in Emission Unit 0-U0007 are subject to the NO_x RACT for mid-size boilers, 6 NYCRR 227-2.4 (c) (c) (1) with an emission limit of 0.08 lb/MM Btus. These boilers are also subject to 6 NYCRR 227. 2 (b) (1), the Particulate limit of 0.10 lb/MM Btu, and to 40CFR60.40c(d), NSPS Subpart Dc.

SUNY Downstate has elected to accept caps to restrict the facility's emissions under the maximum equipment potential levels. Specifically, SUNY Downstate has elected to restrict emissions of NO_x to 225 tons per year, and SO₂ to 225 tons per year. All combustion sources are subject to the 20% opacity limit for 6 NYCRR 227-1.3 (a), and the sulfur in distillate fuel limit of 0.0015 % as per 6 NYCRR 225-1.2 (h) and the sampling and analysis of distillate fuel oil as per 6 NYCRR 225-1.6.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including two small boilers (1.0 MM Btu/hr) each water heaters operating on natural gas only in the HSEB Nurse's Residence (<10 MM Btu/hr), eight (8) non-contact water cooling towers and water treatment systems in the University Hospital Basic Science Study Center HSEB, fifteen (15) fuel oil storage tanks in the HSEB University Hospital Basic Science Study Nurse's Residence (<300,000 bbls), one hundred and twenty

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(120) ventilating and exhaust systems for laboratory operations campus-wide, and nine (9) emergency generators (operating <500 hours/yr) listed below as:

List of exempt emergency diesel generators:

One (1) 1500 KW Cummins emergency generator in the PHAB Building (Emission Unit 0-U0004), manufactured 9/2013, the EPA the "certificate of conformity" is available on file,

Four (4) identical 750 KW Caterpillar C27 each diesel generators in the Generator Plant (Emission Unit 0-U0005 - UHB CAT plant), manufactured on 6/24/2013, the EPA "certificate of conformity" is available on file,

Two (2) 1,111 KW Cummins each generator in the BSB 8th Floor. The Cummins 2000 Model was manufactured pre 2007 and the EPA "certificate of conformity," is not available for pre 2007 stationary engines, and the other is Cummins QST30-G5 NR2, and was manufactured on 6/2017, the EPA "certificate of conformity" is available on file,

One (1) 500 KW Cummins 1988 Model emergency power generator (<500 hrs/yr) located in the HSEB Building, manufactured in 1988. The EPA "certificate of conformity" is not available for pre 2007 stationary engines, and

One 35 KW Detroit Diesel generator in the Parking Garage, which will be removed when the garage is demolished. The anticipated date of demolition is 2020-21. Manufactured pre 2007, the EPA "certificate of conformity" is not available for pre 2007 stationary engines.

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

Permit Administrator: STEPHEN A WATTS
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5401

Authorized Signature: _____ Date: ____ / ____ / ____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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- 4 2 Relationship of this Permit to Other Department Orders and Determinations
- 4 3 Applications for permit renewals, modifications and transfers
- 5 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 5 5 Submission of application for permit modification or renewal -
REGION 2 HEADQUARTERS

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DEC GENERAL CONDITIONS

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

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

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

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

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

NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 482-4997

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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STATE UNIVERSITY PLAZA
381 BROADWAY
ALBANY, NY 12246

Facility: DOWNSTATE MEDICAL CENTER
450 CLARKSON AVE
BROOKLYN, NY 11203-2098

Authorized Activity By Standard Industrial Classification Code:
8062 - GENERAL MEDICAL & SURGICAL HOSPITALS
8221 - COLLEGES AND UNIVERSITIES, NEC

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- 8 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 9 2 6 NYCRR 201-6.4 (a) (7): Fees
- 9 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 9 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 9 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 12 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 14 7 6 NYCRR 202-2.1: Compliance Certification
- 14 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 14 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 16 10 6 NYCRR 200.7: Maintenance of Equipment
- 16 11 6 NYCRR 201-1.7: Recycling and Salvage
- 16 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 16 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 16 14 6 NYCRR 201-3.2 (a): Compliance Certification
- 17 15 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 17 16 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 17 17 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 18 18 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 18 19 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 19 20 6 NYCRR 202-1.1: Required Emissions Tests
- 19 21 40 CFR Part 68: Accidental release provisions.
- 20 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 20 23 6 NYCRR 201-3.2 (c): Compliance Certification
- 21 24 6 NYCRR Subpart 201-6: Emission Unit Definition
- 25 25 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 25 26 6 NYCRR 201-6.4 (g): Non Applicable requirements
- 26 27 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- 27 *28 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 28 29 6 NYCRR 201-7.1: Facility Permissible Emissions
- 28 *30 6 NYCRR 201-7.1: Capping Monitoring Condition
- 31 *31 6 NYCRR 201-7.1: Capping Monitoring Condition
- 33 32 6 NYCRR 211.2: Visible Emissions Limited
- 33 33 6 NYCRR 225-1.2 (h): Compliance Certification
- 34 34 6 NYCRR 225-1.6: Compliance Certification
- 35 35 6 NYCRR 227-1.3 (a): Compliance Certification
- 36 36 6 NYCRR 227-2.4 (c) (1): Compliance Certification
- 39 37 6 NYCRR 227-2.4 (d): Compliance Certification
- 40 38 6 NYCRR 227-2.4 (d): Compliance Certification
- 41 39 6 NYCRR 227.2 (b) (1): Compliance Certification
- 43 40 40CFR 60, NSPS Subpart IIII: Applicability
- 43 41 40CFR 63, Subpart ZZZZ: Applicability
- 43 **Emission Unit Level**
- 43 42 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 45 43 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

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- 50 44 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions
- 51 45 6 NYCRR Subpart 201-7: Process Permissible Emissions
- 52 46 6 NYCRR 201-7.1: Emission Unit Permissible Emissions
- 54 47 6 NYCRR 201-7.1: Process Permissible Emissions

EU=0-U0003

- 56 48 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 57 49 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Certification

EU=0-U0003,EP=E0003,Proc=2FO,ES=S0007

- 58 50 6 NYCRR 227-1.3 (a): Compliance Certification
- 59 51 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 60 52 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source
- 60 53 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.
- 61 54 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability
- 62 55 40CFR 60.44c(g), NSPS Subpart Dc: Alternative compliance method for sulfur dioxide.
- 63 56 40CFR 60.44c(h), NSPS Subpart Dc: Alternative compliance methods for sulfur dioxide.
- 63 57 40CFR 60.44c(h), NSPS Subpart Dc: Compliance Certification

EU=0-U0003,EP=E0003,Proc=2FO,ES=S0007

- 64 58 40CFR 60.46c(e), NSPS Subpart Dc: Exemption from sulfur dioxide monitoring requirements.
- 65 59 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Certification
- 66 60 40CFR 60.48c(e)(1), NSPS Subpart Dc: Compliance Certification
- 66 61 40CFR 60.48c(e)(2), NSPS Subpart Dc: Compliance Certification
- 67 62 40CFR 60.48c(e)(3), NSPS Subpart Dc: Compliance Certification
- 68 63 40CFR 60.48c(e)(11), NSPS Subpart Dc: Compliance Certification
- 69 64 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 70 65 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

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- 73 66 ECL 19-0301: Contaminant List
- 73 67 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 74 68 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 74 69 6 NYCRR 211.1: Air pollution prohibited
- 75 70 6 NYCRR 219-4.4 (d): Compliance Demonstration
- 75 71 6 NYCRR 219-4.4 (e): Compliance Demonstration
- 76 72 6 NYCRR 219-4.4 (f): Compliance Demonstration
- 76 73 6 NYCRR 219-4.6 (a): Compliance Demonstration
- 77 74 6 NYCRR 219-4.7 (a): Compliance Demonstration
- 77 75 6 NYCRR 219-4.8 (a): Compliance Demonstration
- 78 76 6 NYCRR 219-4.8 (b): Compliance Demonstration
- 79 77 6 NYCRR 219-4.9: Compliance Demonstration

Emission Unit Level

EU=0-U0002,EP=E0002,Proc=002,ES=S0006

- 80 78 6 NYCRR 219-4.3 (a): Compliance Demonstration
- 81 79 6 NYCRR 219-4.4 (a): Compliance Demonstration

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81 80 6 NYCRR 219-4.4 (b): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 4/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

- Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of

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planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

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

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

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

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

ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;

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- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

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

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

- i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

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Item K: Permit Exclusion - ECL 19-0305

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

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

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

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

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

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

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

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Condition 2: Fees

Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 2.1:

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

Condition 3: Recordkeeping and Reporting of Compliance Monitoring

Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 3.1:

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

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

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

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

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

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

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

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

Condition 4: Records of Monitoring, Sampling, and Measurement

Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 4.1:

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

Condition 5: Compliance Certification

Effective between the dates of 01/05/2021 and 01/04/2026

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Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (3) (ii)**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting

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

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

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

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

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 4/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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elsewhere in this permit related to compliance certification.

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

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

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

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

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
 Hunters Point Plaza
 47-40 21st Street
 Long Island City, NY 11101-5407

The address for the BQA is as follows:

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

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Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2021.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Condition 8: Recordkeeping requirements
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

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

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

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

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

Condition 9: Open Fires - Prohibitions
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

Except as allowed by Title 6 NYCRR Section 215.3, no person shall burn, cause, suffer, allow

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or permit the burning of any materials in an open fire.

Item 9.2

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

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

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

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

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

Condition 10: Maintenance of Equipment
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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

Condition 11: Recycling and Salvage
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 13.1:

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

Condition 14: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

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Applicable Federal Requirement:6 NYCRR 201-3.2 (a)**Item 14.1:**

The Compliance Certification activity will be performed for the Facility.

Item 14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

AS PROOF OF EXEMPT ELIGIBILITY FOR THE EMERGENCY GENERATORS, THE FACILITY MUST MAINTAIN MONTHLY RECORDS WHICH DEMONSTRATE THAT EACH ENGINE IS OPERATED LESS THAN 500 HOURS PER YEAR, ON A 12-MONTH ROLLING TOTAL BASIS.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500.0 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 15: Trivial Sources - Proof of Eligibility
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)**Item 15.1:**

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

Condition 16: Requirement to Provide Information
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)**Item 16.1:**

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

Condition 17: Right to Inspect
Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 17.1:

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

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 18: Right to Inspect

Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 18.1:

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

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 19: Off Permit Changes

Effective between the dates of 01/05/2021 and 01/04/2026

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

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Item 19.1:

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

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

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

Condition 20: Required Emissions Tests
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 20.1:

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

Condition 21: Accidental release provisions.
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40 CFR Part 68

Item 21.1:

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

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR

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Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

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

Condition 22: Recycling and Emissions Reduction
 Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 82, Subpart F

Item 22.1:

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

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

Condition 23: Compliance Certification
 Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 23.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility operates a total of nine (9) exempt emergency generators from NYSDEC permitting in accordance with 6 NYCRR 201-3.1(b) and 3.2(c)(6). Each of the following exempt generators at the facility is to operate for no more than 500 hours per year:

- One 35 KW generator in the Parking Garage
- One 500 KW generator in the HSEB Building
- Two 1,111 KW each generators in the BSB 8th Floor
- Four 750 KW each Caterpillar Model C27 replacement diesel fuel generator in the UHB CAT Plant
- One 1,500 KW Cummins Inc., QSK50-G4 NR2 diesel fuel emergency generator in the PHAB Building

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6 NYCRR 201-3.2(c)(6):

Emergency power generating stationary internal combustion engines as defined in 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.

6 NYCRR 200.1(cq):

Emergency power generating stationary internal combustion engine. A stationary internal combustion engine that operates as a mechanical or electrical power source only when the usual supply of power is unavailable, and operates for no more than 500 hours per year. The 500 hours of annual operation for the engine include operation during emergency situations, routine maintenance, and routine exercising (for example, test firing the engine for one hour a week to ensure reliability). A stationary internal combustion engine used for peak shaving generation is not an emergency power generating stationary internal combustion engine.

The facility is required to operate and maintain these engines and control device according to the manufacturer's emission related written instructions and specifications, and change only those emission-related settings that are permitted by the manufacturer over the entire life of the engine.

The owner or operator of an emergency stationary compression ignition IC engine must install and maintain a non-redettable hour meter prior to startup to monitor engine usage.

Records documenting these actions and requirements must be kept on-site for establishing compliance.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 24: Emission Unit Definition

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Item 24.1:

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

Emission Unit: 0-EXMPT

Emission Unit Description:

Emission Unit 0-EXMPT consists of a Bloom Energy 1.8 MW Hydrogen Fuel Cell Energy Saver 5 supplied with natural gas (Process FC1) to produce electricity for the campus. The fuel cell is 123.5 feet long, 24 feet wide, and 7 feet tall. Because of this, the fuel cell has twenty-six (26) points that will release emissions. This unit was installed on May 1, 2018. Associated with Emission Unit 0-EXMPT is Emission Point FC001, Process FC1 and Emission Source FC001.

The Fuel Cell will be in the Main Building/Campus, in the corner of Lenox Road and E 37th Street.

The emission unit is exempt under 6 NYCRR 201-3.2(c)(46). The limited emission from the fuel cell is 26.81 lbs/yr of NO_x and 250.71 lbs/yr of VOC.

Building(s): 1

Item 24.2:

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

Emission Unit: 0-U0002

Emission Unit Description:

Emission Unit 0-U0002 consists of a 200 lb/hr JK Environmental Company/SP-300 crematorium (Emission Source S0006), which processes cadavers (Process 002). The flue gas from the crematorium exits through a dedicated stack, identified as Emission Point E0002. The secondary chamber combustion temperature in the crematorium is continuously monitored and recorded by a Honeywell UDC2000 Monitor/Honeywell DR4200GP Recorder.

Building(s): 1

Item 24.3:

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

Emission Unit: 0-U0003

Emission Unit Description:

Emission Unit 0-U0003 consists of a 10.46 MM Btu/hr dual fuel fired boiler (Emission Source S0007). This boiler supplies steam/hot water in the Basic Science Building and burns natural gas (Process NAT) as the primary fuel and #2 fuel oil (Process 2FO) as a secondary fuel. The flue gases from this new boiler exit through a stack, identified as Emission Point E0003.

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Facility DEC ID: 2610400132

Building(s): 1

Item 24.4:

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

Emission Unit: 0-U0004

Emission Unit Description:

Emission Unit 0-U0004 consists of three 3.0 MM Btu/hr each dual fuel boilers (Emission Sources S0008, S0009 & S0010) burning #2 fuel oil (Process FO2) and natural gas (Process NG1). These emission sources are located at the new Public Health Academic Building (PHAB) or as previously was known as the "New Academic Building (NAB). This generator has been reverted back to emergency use only. The Public Health Academic Building (PHAB)" was previously known as the "New Academic Building (NAB)."

The flue gases from the three boilers (Emission Sources S0008, S0009 & S0010) exit through their individual stack, identified as Emission Points PHAB1, PHAB2 & PHAB3; respectively.

The facility has submitted the EPA "certificate of conformity" for the 1500 KW emergency generator (Emission Source GEN01) burning #2 fuel oil (Process GEN), which is the manufacturer's certification of compliance with the EPA's emission standards specified in 40 CFR Subpart IIII for major pollutants. The facility is required to operate and maintain these engines and control device according to the manufacturer's emission related written instructions, and change only those emission-related settings that are permitted by the manufacturer.

This new 1500 KW emergency generator (Emission Source GEN01) is allowed to operate up to 500 hours annually, and is exempt according to 6 NYCRR 201-3.2 (c).

This 1500 KW Cummins engine is 2013 model year and is in the EPA family code: DCEXL50.AAD, and certificate # DCEXL050.AAD-25.

Building(s): PHAB

Item 24.5:

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

Emission Unit: 0-U0005

Emission Unit Description:

Emission Unit 0-U0005 consists of four exempt 750 KW each emergency generators (Emission Sources GEN02, GEN03, GEN04 & GEN05). Each of the four exempt emergency generators is a diesel 2013 Caterpillar Model C27, compression ignition rated at 750 KW (1,141 bHP or 2.559 MM Btu/hr), EPA Tier II emission level certified, and each is a four-cycle

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diesel engine. Process GN1 is the combustion of diesel fuel in these 4 replacement emergency engines (Emission Sources GEN02, GEN03, GEN04 & GEN05). The flue gases from the four 750 KW each replacement generators (Emission Sources GEN02, GEN03, GEN04 & GEN05) exit through their individual stacks, identified as Emission Points 0GEN2, 0GEN3, 0GEN4 & 0GEN5; respectively.

There are also be four (4) identical 275 gallon Day tanks located in the generator room and will be used for the four replacement generators. Each generator is a 4-stroke water-cooled diesel, each with a displacement of 27.03 liter, and with a compression ration of 16.5: 1.0.

All replacement generators meet the emission limitations found in 40 CFR 60 Subpart IIII. Each generator will be operated a maximum of 500 hours/yr. The facility has submitted the EPA "certificate of conformity" for each of the 4 replacement generators, which is the manufacturer's certification of compliance with the EPA's emission standards specified in 40 CFR Subpart IIII for major pollutants. The facility is required to operate and maintain these engines and control device according to the manufacturer's emission related written instructions, and change only those emission-related settings that are permitted by the manufacturer.

The facility has submitted data for the four (4) identical emergency generators. The gaseous emissions data measurements are consistent with those described in EPA 40 CFR Part 89 Subpart D, 40 CFR Part 60 Subpart IIII, and ISO 8178 for measuring HC, CO, PM, and NOx. Gaseous emissions values are weighted cycle averages and are in compliance with the non-road regulations.

These four (4) 750 KW each Caterpillar Model C27 engines are 2013 model year and are in the EPA family code: DCPXL27.ONZS. They are emergency stationary operating at constant speed engine @ 1800 rpm.

The 2000 kw temporary generator (Emission Source TEMPG) in Emission Unit 0-U0005 was removed on 9/16/2019.

Building(s): PPUH

Item 24.6:

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

Emission Unit: 0-U0007

Emission Unit Description:

Emission Unit 0-U0007 is the main boiler plant and consists of Boilers 1, 2, 3, 4 & 5, five (5) identical

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Victory Energy VS-3 boilers with a maximum heat input of 50 MM Btu/hr each. The boilers are identified as Emission Sources S0011, S0012, S0013, S0014 and S0015. The five (5) boilers are dual-fuel fired, operating on natural gas (Process NG7) and # 2 distillate fuel oil (Process 2F7).

The start-up date was 12/01/2018.

The emissions from these five boilers are exhausted through the existing stack identified as Emission Point E0007. The NO_x emissions is based on based on 2018 stack testing report.

The NO_x emissions are based on the stack test report, in which Boilers 4 & 5 were stack tested on 12/14/2018, and Boiler 1,2 & 3 were stack tested on 4/18/2019 for NO_x and PM.

The two temporary boilers (Emission Sources TMPB1 & TMPB2) in Emission Unit 0-TEMP1 that were temporarily installed on 12/1/2015 to provide heat load during the boiler replacement project, were decommissioned and removed on 10/1/2019.

Building(s): 1

Condition 25: Progress Reports Due Semiannually
Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 25.1:

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

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

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

Condition 26: Non Applicable requirements
Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 26.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

6 NYCRR Subpart 231-2

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Reason: With the addition of the three 3.0 MM Btu/hr dual fuel each boilers and the 1,500 kilowatt exempt emergency generator in the new Academic Building (Emission Unit 0-U0004), New Source Review, 6 NYCRR 231-2 is not applicable to this facility because Downstate Medical Center will keep maintaining the 225 tons/year cap on both NO_x and SO_x emissions.

New Source Review (NSR) does not apply since the proposed project emission potentials do not exceed the NSR significant project thresholds listed in 6 NYCRR 231-13. The replacement of # 6 residual fuel oil with # 2 ultra low distillate fuel oil (0.0015 percent by weight Sulfur) will result in a decrease of NO_x and SO₂ emissions potentials as well as actual emissions. Therefore, the project emission potentials (PEP) from the project for these emissions are zero (0).

However; it should be noted that the project emission potential (PEP) for CO emissions will increase by approximately 16 tons due to the boiler replacement and the new emergency generator, however; the increase is below the 100 ton NSR threshold and therefore will not trigger NSR. Furthermore, the NO_x and SO_x cappings limit the CO to below the 100 ton Title V threshold and therefore, no CO emission limit is needed (required).

40 CFR 52.21 (j)

Reason: With the addition of the three 3.0 MM Btu/hr dual fuel each boilers and the 1,500 kilowatt exempt emergency generator in the new Academic Building (Emission Unit 0-U0004), Prevention of Significant Deterioration (PSD), 40 CFR 52.21(j) is not applicable to this facility because Downstate Medical Center will keep maintaining the 225 tons/year cap on both NO_x and SO_x emissions.

The replacement of # 6 residual fuel oil with # 2 ultra low distillate fuel oil (0.0015 percent by weight Sulfur) will result in a decrease of NO_x and SO₂ emissions potentials as well as actual emissions. Therefore, the project emission potentials (PEP) from the project for these emissions are zero (0).

Condition 27: Facility Permissible Emissions
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Item 27.1:

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

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

CAS No: 0NY210-00-0

PTE: 281,903 pounds per year

Name: OXIDES OF NITROGEN

Condition 28: Capping Monitoring Condition

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 28.1:

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

6 NYCRR Subpart 231-2

Item 28.2:

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

Item 28.3:

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

Item 28.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 28.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 28.6:

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

Emission Unit: 0-EXMPT

Emission Point: FC001

Process: FC1

Emission Source: FC001

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Regulated Contaminant(s):

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

Item 28.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility will track electrical output in MW and the hours of running, which will be used to calculate the monthly and 12-month rolling emissions.

Parameter Monitored: ELECTRICAL OUTPUT

Upper Permit Limit: 15768 megawatt-hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 29: Facility Permissible Emissions

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 29.1:

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

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

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

PTE: 27,841 pounds per year

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

PTE: 281,903 pounds per year

Condition 30: Capping Monitoring Condition

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 30.1:

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

6 NYCRR Subpart 231-2

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Item 30.2:

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

Item 30.3:

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

Item 30.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 30.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 30.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 30.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

SUNY Downstate has elected to accept caps to restrict the facility's emissions under the maximum equipment potential levels. Specifically, SUNY Downstate has elected to restrict emissions of NOx to 225 tons per year.

SUNY Downstate is proposing to accept a cap on the NOx emissions to 225 tpy or less. The following formula will be used to calculate the facility's monthly NOx emissions, and to demonstrate compliance with this cap on a rolling 12-month basis where the individual monthly NOx emissions will be determined from the following equation:

$$X = [(A \times B) + (C \times D) + (E \times F) + (G \times H) + (I \times J) + (K \times L) + (M \times N) + (O \times P) + (Q \times R)] / 2,000$$

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

where:

- X = Monthly facility NO_x emissions (tons);
- A = S0011, S0012, S0013, S0014 & S0015 (50 MM Btu/hr each) boiler consumption of natural gas (million cubic feet); and
- B = 34.7 lbs of NO_x / million cubic feet burned (based on 2018 stack testing report).
- C = Monthly total of No. 2 heating oil (ultra low sulfur) consumption by S0011, S0012, S0013, S0014 & S0015, the Power Plant boilers (1,000 gallons);
- D = NO_x emission factor for #2 heating fuel oil (ULSD) for boilers S0011, S0012, S0013, S0014 & S0015 boilers emission factor = 9.8 lbs/1000 gallons burned based on 2018 stack testing report;
- E = Monthly total No. 2 fuel oil consumption by boilers other than the the Power Plant boilers (1,000 gallons);
- F = 20 lbs NO_x / 1,000 gallonsof No. 2 fuel oil burned (based on EPA's AP-42 emission factor for small boilers burning distillate fuel oil);
- G = the remaining campus boiler or hot water heater consumption of natural gas (million cubic feet);
- H = 100 lbs NO_x / million cubic feet burned (based on EPA's AP-42 emission factor);
- I = the emergency generator consumption of natural gas (million cubic feet);
- J = 2,345 lbs NO_x / million cubic feet burned (based on EPA's AP-42 emission factor);
- K = the large (>600 hp) diesel emergency generator consumption of diesel (1,000 gallons);
- L = 441.6 lbs NO_x / 1,000 gallons burned (based on EPA's AP-42 emission factor);
- M = the small (<600 hp) diesel emergency generator consumption of diesel (1,000 gallons);
- N = 608.6 lbs NO_x / 1,000 gallons burned (based on EPA's AP-42 emission factor);
- O = the crematory cadaver process weight (pounds);
- P = 3.16 lbs NO_x / pounds processed;
- Q = S0007 (10.46 MMBtu/hr), S0008, S0009 & S0010 (3 MM Btu/hr each) boiler consumption of natural gas (million cubic feet); and
- R = 100 lbs NO_x / million cubic feet burned (based on EPA's AP-42 emission factor).

A rolling 12-month tally will be maintained to ensure compliance with the 225 tpy limit.

Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 225 tons per year
 Monitoring Frequency: MONTHLY

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 31: Capping Monitoring Condition
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 31.1:

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

40 CFR 52.21 (j)

Item 31.2:

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

Item 31.3:

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

Item 31.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 31.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 31.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 31.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

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

Monitoring Description:

SUNY Downstate has elected to accept caps to restrict the facility's emissions under the maximum equipment potential levels. Specifically, SUNY Downstate has elected to restrict emissions of SO₂ to 225 tpy.

SUNY Downstate is proposing to accept a cap on SO₂ emissions to 225 tpy or less. The following formula will be used to calculate the facility's monthly SO₂ emissions, and to demonstrate compliance with this cap on a rolling 12-month basis where the individual monthly SO₂ emissions will be determined from the following equation:

$$Y = [(A \times B) + (C \times D) + (E \times F) + (G \times H) + (I \times J) + (K \times L)] / 2,000$$

where

Y = Monthly facility SO₂ emissions;

A = the monthly consumption of ultra low sulfur number 2 fuel oil (1,000 gallons) for the mid-size boilers;

B = 142 x S lbs SO₂ / 1,000 gallons burned (based on EPA's AP-42 emission factor where S is the sulfur content of the fuel oil in percent);

C = the campus consumption of natural gas in all types of units (million cubic feet);

D = 0.6 lbs SO₂ / million cubic feet burned (based on EPA's AP-42 emission factors);

E = the large (>600 hp) diesel emergency generator consumption of diesel (1,000 gallons);

F = 0.21 lbs SO₂ / 1,000 gallons burned (based on EPA's AP-42 emission factors);

G = the small (<600 hp) diesel emergency generator consumption of diesel (1,000 gallons);

H = 40 lbs SO₂ / 1,000 gallons burned (based on EPA's AP-42 emission factors);

I = the crematory cadaver process weight (pounds);

J = 3.23 lbs SO_x / pounds processed;

K = the monthly consumption of #2 fuel oil (1,000 gallons) for the small boilers; and

L = 142 x S lbs SO₂ / 1,000 gallons burned (based on EPA's AP-42 emission factor where S is the sulfur content of the fuel oil in percent).

A rolling 12-month tally will be maintained to ensure compliance with the 225 tpy limit.

Parameter Monitored: SULFUR DIOXIDE

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Upper Permit Limit: 225 tons per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 32: Visible Emissions Limited
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 211.2

Item 32.1:
 Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 33: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

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

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

Item 33.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
 Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.0015 percent by weight

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 34: Compliance Certification

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 225-1.6

Item 34.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§225-1.6 Reports, sampling, and analysis.

(a) The department will require fuel analyses, information on the quantity of fuel received, fired or sold, and results of stack sampling, stack monitoring, and other procedures to ensure compliance with the provisions of this Subpart.

(b) (1) Any person who sells oil and/or coal must retain, for at least five years, records containing the following information:

(i) fuel analyses and data on the quantities of all oil and coal received; and

(ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil and coal sold.

(2) Such fuel analyses must contain, as a minimum:

(i) data on the sulfur content, ash content, specific gravity, and heating value of residual oil;

(ii) data on the sulfur content, specific gravity, and heating value of distillate oil; and

(iii) data on the sulfur content, ash content, and heating value of coal.

(c) Sampling, compositing, and analysis of fuel samples must be done in accordance with methods acceptable to the department.

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

(d) Facility owners or fuel distributors required to maintain and retain records pursuant to this Subpart must make such records available for inspection by the department.

(e) 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.

(f) Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

Monitoring Frequency: PER DELIVERY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 35: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 35.1:
 The Compliance Certification activity will be performed for the Facility.

Item 35.2:
 Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Monitoring Frequency: DAILY
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 4/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1)

Item 36.1:

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

Emission Unit: 0-U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0011
Emission Unit: 0-U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0012

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Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015
Emission Unit: 0-U0007 Process: NG7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: NG7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: NG7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: NG7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: NG7	Emission Point: E0007 Emission Source: S0015

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

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Downstate Medical Center is required to perform testing all of the new constructed mid-size boilers in Emission Unit 0-U0007, that includes the five 50 MM Btu/hr each replacement boilers, to verify the NOx emission limit compliance. A mid-size boiler is a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. All boilers operate on natural gas and on #2 fuel oil.

This condition applies to distillate oil/gas fired mid-size boilers beginning July 1, 2014. The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.

The owner or operator will maintain records on-site for a minimum of five years.

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The compliance deadline, with the emission limitation listed in this condition, is July, 1 2014. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July, 1 2014.

On or after July 1, 2014, the owner/operator of mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers operating on distillate oil/natural gas have a new limit of 0.08 pounds of NO_x per million Btus under the NO_x RACT plan for mid-size boilers.

Emission test requirements: The owner/operator of a source required to conduct an emission test under subdivision (c) of 6 NYCRR 227-2.6 must:

1. Submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the Department and EPA for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and must follow the procedures set forth in Part 202 of this Title.
 - i. For mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the Department.
3. Submit a compliance test report containing the results of the emission test to the Department no later than 60 days after the completion of the emission test.

This condition applies to the mid-size boilers in Emission Units 0-U0007 (Emission Sources S0011, S0012, S0013, S0014 & S0015), that includes the five 50 MM Btu/hr each replacement boilers to verify the NO_x emission limit compliance, burning natural gas as the primary fuel (Process NG7) and # 2 distillate fuel oil or heating oil (Process 2F7) as the secondary fuel.

Compliance with the 0.08 lbs/MM Btus emission limit shall be determined with a one hour average in accordance with section 227-2.6 (a) (3) (i) of this Subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6 (a) (3) (ii) of this Subpart. If CEMS

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are utilized, the requirements of section 227-2.6 (b) of this Subpart apply, including the use of a 24 hour averaging period.

Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 0.08 pounds per million Btus
 Reference Test Method: 40 CFR 60 Appendix A, Method 7, 7E or 19
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 The initial report is due 5/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)

Item 37.1:

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

Emission Unit: 0-U0004 Process: FO2	Emission Point: PHAB1 Emission Source: S0008
Emission Unit: 0-U0004 Process: FO2	Emission Point: PHAB2 Emission Source: S0009
Emission Unit: 0-U0004 Process: FO2	Emission Point: PHAB3 Emission Source: S0010
Emission Unit: 0-U0004 Process: NG1	Emission Point: PHAB1 Emission Source: S0008
Emission Unit: 0-U0004 Process: NG1	Emission Point: PHAB2 Emission Source: S0009
Emission Unit: 0-U0004 Process: NG1	Emission Point: PHAB3 Emission Source: S0010

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

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler (a boiler with a maximum heat input capacity equal to or greater than one million Btu per hour and equal to or less than 25 million

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Btu per hour) or a small combustion turbine or a small stationary internal combustion engine must annually perform a tune-up of their equipment and maintain the data in a permanently bound log book containing the following information:

- a. Date of last tune-up,
- b. Name, Title and affiliation of person making adjustments, and
- c. Any other information that the Department may require.

This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

A small boiler is defined as a boiler with a maximum heat input capacity equal to or greater than one million Btu per hour and equal to or less than 25 million Btu per hour.

This condition applies to the three Fulton 3.0 MM Btus/hr each boilers (Emission Sources S0008, S0009 & S0010) in Emission Unit 0-U0004 operating on natural gas (Process NG1) and distillate fuel oil (Process FO2).

Reference Test Method: DAR-5
 Monitoring Frequency: ANNUALLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 38: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)

Item 38.1:

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

Emission Unit: 0-U0003	Emission Point: E0003
Process: 2FO	Emission Source: S0007

Emission Unit: 0-U0003	Emission Point: E0003
Process: NAT	Emission Source: S0007

Regulated Contaminant(s):

Permit ID: 2-6104-00132/00009

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler or a small combustion turbine or a small stationary internal combustion engine must annually perform a tune-up of their equipment and maintain the data in a permanently bound log book containing the following information:

- a. Date of last tune-up,
- b. Name, Title and affiliation of person making adjustments, and
- c. Any other information that the Department may require.

This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

A small boiler is defined as a boiler with a maximum heat input capacity equal to or greater than one million Btu per hour and equal to or less than 25 million Btu per hour.

This condition applies to the 10.461 MM Btu/hr Easco Boiler Corp. boiler (Emission Source S0007) in Emission Unit 0-U0003 operating on natural gas (Process NAT) and distillate fuel oil (Process 2FO).

Reference Test Method: DAR-5
 Monitoring Frequency: ANNUALLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 39: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)

Item 39.1:

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

Emission Unit: 0-U0007

Emission Point: E0007

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Process: 2F7	Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

Particulate emission limit for a stationary combustion installation firing oil. Once during the term of this permit, the facility shall perform the following:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition, and.
- 3) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
- 4) Facility shall maintain all records of all testing done at this stationary combustion installation for a minimum period of 5 years.

This condition applies to the five (5) 50 MM Btu/hr each new boilers (Emission Sources S0011, S0012, S0013, S0014 & S0015) in Emission Unit 0-U0007 when operating on residual oil (Process 2F7).

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Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.10 pounds per million Btus
 Reference Test Method: EPA RM5
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 4/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 40: Applicability
 Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 40.1:
 Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

Condition 41: Applicability
 Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 41.1:
 Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

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

Condition 42: Emission Point Definition By Emission Unit
 Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 42.1:
 The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 0-EXMPT

Emission Point: FC001
 Height (ft.): 97 Length (in.): 43 Width (in.): 9
 NYTMN (km.): 4500.969 NYTME (km.): 589.284 Building: 1

Item 42.2:
 The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 0-U0002

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Facility DEC ID: 2610400132

Emission Point: E0002
 Height (ft.): 168 Diameter (in.): 24
 NYTMN (km.): 4501.223 NYTME (km.): 589.333 Building: 1

Item 42.3:

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

Emission Unit: 0-U0003

Emission Point: E0003
 Height (ft.): 80 Diameter (in.): 36
 NYTMN (km.): 4501.223 NYTME (km.): 589.3 Building: 1

Item 42.4:

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

Emission Unit: 0-U0004

Emission Point: PHAB1
 Height (ft.): 189 Diameter (in.): 12
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PHAB

Emission Point: PHAB2
 Height (ft.): 189 Diameter (in.): 12
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PHAB

Emission Point: PHAB3
 Height (ft.): 189 Diameter (in.): 12
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PHAB

Emission Point: PHAB4
 Height (ft.): 189 Diameter (in.): 18
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PHAB

Item 42.5:

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

Emission Unit: 0-U0005

Emission Point: 0GEN2
 Height (ft.): 70 Diameter (in.): 13
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PPUH

Emission Point: 0GEN3
 Height (ft.): 70 Diameter (in.): 13
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PPUH

Emission Point: 0GEN4
 Height (ft.): 70 Diameter (in.): 13
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PPUH

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Emission Point: OGEN5
 Height (ft.): 70 Diameter (in.): 13
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: PPUH

Item 42.6:

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

Emission Unit: 0-U0007

Emission Point: E0007
 Height (ft.): 150 Diameter (in.): 36
 NYTMN (km.): 4501.024 NYTME (km.): 589.257 Building: 1

**Condition 43: Process Definition By Emission Unit
 Effective between the dates of 01/05/2021 and 01/04/2026**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 43.1:

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

Emission Unit: 0-EXMPT
 Process: FC1 Source Classification Code: 1-01-009-10
 Process Description:

Process FC1 consists of a Bloom Energy 1.8 MW Hydrogen Fuel Cell Energy Saver 5 supplied with Natural Gas in Emission Unit 0-EXMPT to produce electricity for the campus. The fuel cell is 123.5 feet long, 24 feet wide, and 7 feet tall. Because of this, the fuel cell has twenty-six (26) points that will release emissions. This unit was installed on May 1, 2018. Emission Unit 0-EXMPT is exempt under 6 NYCRR 201-3.2 (c)(46).

Associated with Emission Unit 0-EXMPT is Emission Point FC001, Process FC1 and Emission Source FC001.

The Fuel Cell is in the Main Building/Campus, in the corner of Lenox Road and E 37th Street.

The emission unit is exempt under 6 NYCRR 201-3.2(c)(46). The limited emission from the fuel cell is 26.81 lbs/yr of NOx and 250.71 lbs/yr of VOC.

Emission Source/Control: FC001 - Combustion

Item 43.2:

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

Emission Unit: 0-U0002
 Process: 002 Source Classification Code: 5-01-005-05
 Process Description:

Process 002 consists of the operation of a 200 lb/hr crematorium (Emission Source S0006) in Emission Unit

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0-U0002, firing natural gas and processing cadavers generated on-site. The flue gases from this crematorium exit through a stack, identified as Emission Point E0002.

Emission Source/Control: S0006 - Incinerator
 Design Capacity: 200 pounds per hour
 Waste Feed Method: MANUAL DIRECT FEED
 Waste Type: CREMATORY WASTE (INCLUDING HUMAN AND/OR ANIMAL BODY PARTS AND ASSOCIATED ANIMAL BEDDING) ONLY

Item 43.3:

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

Emission Unit: 0-U0003
 Process: 2FO Source Classification Code: 1-03-005-02
 Process Description:
 Process 2FO consists of the burning of #2 distillate fuel oil (as the secondary fuel) in the 10.461 MM Btu/hr Cleaver Brooks dual fuel external combustion boiler (Emission Source S0007) in Emission Unit 0-U0003 in the Basic Science Building. The flue gases from this boiler exit through a stack, identified as Emission Point E0003.

Emission Source/Control: S0007 - Combustion
 Design Capacity: 10.461 million Btu per hour

Item 43.4:

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

Emission Unit: 0-U0003
 Process: NAT Source Classification Code: 1-03-006-02
 Process Description:
 Process NAT consists of the burning of natural gas (as the primary fuel) in the new Cleaver Brooks dual fuel external combustion boiler (Emission Source S0007) in Emission Unit 0-U0003 in the Basic Science Building. The flue gases from this boiler exit through a stack, identified as Emission Point E0003.

Emission Source/Control: S0007 - Combustion
 Design Capacity: 10.461 million Btu per hour

Permit ID: 2-6104-00132/00009

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Item 43.5:

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

Emission Unit: 0-U0004

Process: FO2

Source Classification Code: 1-03-005-02

Process Description:

Process FO2 consists of the operation of the burning of #2 distillate fuel oil (heating oil) in the three (3) dual-fuel 3.0 MM Btu/hr each boilers (Emission Sources S0008, S0009 & S0010) in Emission Unit 0-U0004 in the new Public Health Academic Building (PHAB) which was previously known as the New Academic Building (NAB). The flue gases from each of the three boilers exit through their individual stack, identified as Emission Points PHAB1, PHAB2 & PHAB3; respectively.

In addition to the boiler burning # 2 distillate fuel oil (Process FO2), the three boilers also burn natural gas (Process NG1).

Emission Source/Control: S0008 - Combustion

Design Capacity: 3 million Btu per hour

Emission Source/Control: S0009 - Combustion

Design Capacity: 3 million Btu per hour

Emission Source/Control: S0010 - Combustion

Design Capacity: 3 million Btu per hour

Item 43.6:

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

Emission Unit: 0-U0004

Process: GEN

Source Classification Code: 2-03-001-01

Process Description:

Process GEN consists of the operation of the burning of diesel fuel in the new 1500 KW emergency generator (Emission Source GEN01) in Emission Unit 0-U0004 in the new Public Health Academic Building (PHAB) or the New Academic Building (NAB). The flue gases from this new 1500 KW new emergency generator exit through its individual stack, identified as Emission Point Point 0NAB4. This new 1500 KW emergency generator (Emission Source GEN01) ia allowed to operate up to 500 hours annually.

The Quantity/hr is 1500 Kilowatts. The Quantity/yr is 750,000 Kilowatts. The HRS/day is 1.37, the Days/yr is 365. All of these are based on the 1500 KW only (GEN01).

Emission Source/Control: GEN01 - Combustion

Design Capacity: 1,500 kilowatts

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Facility DEC ID: 2610400132

Item 43.7:

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

Emission Unit: 0-U0004

Process: NG1

Source Classification Code: 1-03-006-02

Process Description:

Process NG1 consists of the operation of the burning of natural gas in the three (3) dual- fuel 3.0 MM Btu/hr each boilers (Emission Sources S0008, S0009 & S0010) in Emission Unit 0-U0004 in the new Public Health Academic Building (PHAB) which was previously known as the New Academic Building (NAB). The flue gases from each of the three boilers exit through their individual stack, identified as Emission Points PHAB1, PHAB2 & PHAB3; respectively.

In addition to the boilers burning natural gas (Process NG1), the three boilers also burn #2 distillate fuel oil (Process FO2).

Emission Source/Control: S0008 - Combustion

Design Capacity: 3 million Btu per hour

Emission Source/Control: S0009 - Combustion

Design Capacity: 3 million Btu per hour

Emission Source/Control: S0010 - Combustion

Design Capacity: 3 million Btu per hour

Item 43.8:

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

Emission Unit: 0-U0005

Process: GN1

Source Classification Code: 2-03-001-01

Process Description:

Process GN1 consists of the burning of diesel fuel in the four 750 KW each replacement generators (Emission Sources GEN02, GEN03, GEN04 & GEN05) in Emission Unit 0-U0005 in the Power Plant University Hospital (PPUH).

The flue gases from the four 750 KW each replacement generators (Emission Sources GEN02, GEN03, GEN04 & GEN05) exit through their individual stacks, identified as Emission Points 0GEN2, 0GEN3, 0GEN4 & 0GEN5; respectively.

Each of the four (4) emergency generators combustes 53.6 gal/hr of diesel fuel @ 100% load. Each of the four (4) emergency generators is allowed to operate a maximum of 500 hours per year.

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Emission Source/Control: GEN02 - Combustion
Design Capacity: 750 kilowatts

Emission Source/Control: GEN03 - Combustion
Design Capacity: 750 kilowatts

Emission Source/Control: GEN04 - Combustion
Design Capacity: 750 kilowatts

Emission Source/Control: GEN05 - Combustion
Design Capacity: 750 kilowatts

Item 43.9:

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

Emission Unit: 0-U0007

Process: 2F7

Source Classification Code: 1-03-005-02

Process Description:

Process 2F7 in the main boiler plant consists of one or more of the five (5) identical Victory Energy boilers with a maximum heat input of 50 MM Btu/hr each, firing on # 2 distillate fuel oil (heating oil) as the back-up fuel in Emission Unit 0-U0007. The boilers are identified as Emission Sources S0011, S0012, S0013, S0014 and S0015. These five (5) boilers are dual-fuel, they also fire natural gas (Process NG7) as the primary fuel.

The emissions from these five (5) boilers are exhausted through the existing stack identified as Emission Point E0007. The NOx emissions are based on the stack test report, in which Boilers 4 & 5 were stack tested on 12/14/2018, and Boiler 1,2 & 3 were stack tested on 4/18/2019 for NOx and PM.

Emission Source/Control: S0011 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: S0012 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: S0013 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: S0014 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: S0015 - Combustion
Design Capacity: 50 million Btu per hour

Item 43.10:

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

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Emission Unit: 0-U0007

Process: NG7

Source Classification Code: 1-03-006-02

Process Description:

Process NG7 in the main boiler plant consists of one or more of the five (5) identical Victory Energy boilers with a maximum heat input of 50 MM Btu/hr each, firing on natural gas as the primary fuel in Emission Unit 0-U0007. The five (5) boilers are identified as Emission Sources S0011, S0012, S0013, S0014 and S0015. These five (5) boilers are dual-fuel, they also fire # 2 distillate fuel oil (Process 2F7) as the back-up fuel.

The emissions from these five (5) boilers are exhausted through the existing stack identified as Emission Point E0007. The NOx emissions are based on the stack test report, in which Boilers 4 & 5 were stack tested on 12/14/2018, and Boiler 1,2 & 3 were stack tested on 4/18/2019 for NOx and PM.

Emission Source/Control: S0011 - Combustion

Design Capacity: 50 million Btu per hour

Emission Source/Control: S0012 - Combustion

Design Capacity: 50 million Btu per hour

Emission Source/Control: S0013 - Combustion

Design Capacity: 50 million Btu per hour

Emission Source/Control: S0014 - Combustion

Design Capacity: 50 million Btu per hour

Emission Source/Control: S0015 - Combustion

Design Capacity: 50 million Btu per hour

**Condition 44: Emission Unit Permissible Emissions
Effective between the dates of 01/05/2021 and 01/04/2026**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 44.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited

shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 0-EXMPT

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 0.00306 pounds per hour

26.8056 pounds per year

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Emission Unit: 0-U0002

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 1.8 pounds per hour

15,800 pounds per year

Emission Unit: 0-U0003

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 1.494 pounds per hour

13,057 pounds per year

Emission Unit: 0-U0004

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 1.28 pounds per hour

11,235 pounds per year

Emission Unit: 0-U0007

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 17.5 pounds per hour

153,300 pounds per year

Condition 45: Process Permissible Emissions
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 45.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 0-EXMPT

Process: FC1

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 0.00306 pounds per hour

26.8056 pounds per year

Emission Unit: 0-U0002

Process: 002

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 1.8 pounds per hour

15,800 pounds per year

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Emission Unit: 0-U0003 Process: 2FO
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 1.49 pounds per hour
 13,057 pounds per year

Emission Unit: 0-U0003 Process: NAT
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 1.03 pounds per hour
 8,983 pounds per year

Emission Unit: 0-U0004 Process: FO2
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 1.286 pounds per hour
 11,235 pounds per year

Emission Unit: 0-U0004 Process: NG1
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 0.8824 pounds per hour
 7,729 pounds per year

Emission Unit: 0-U0007 Process: 2F7
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 17.5 pounds per hour
 153,300 pounds per year

Emission Unit: 0-U0007 Process: NG7
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 8.5 pounds per hour
 74,460 pounds per year

Condition 46: Emission Unit Permissible Emissions
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 46.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Emission Unit: 0-EXMPT

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

PTE(s): 0.000011 pounds per hour

0.09382 pounds per year

Emission Unit: 0-U0002

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

PTE(s): 1.84 pounds per hour

16,150 pounds per year

Emission Unit: 0-U0003

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

PTE(s): 0.0159 pounds per hour

139.41 pounds per year

Emission Unit: 0-U0004

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

PTE(s): 0.0137 pounds per hour

120 pounds per year

Emission Unit: 0-U0007

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

PTE(s): 0.3804 pounds per hour

3,332 pounds per year

Emission Unit: 0-EXMPT

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 0.00306 pounds per hour

26.8056 pounds per year

Emission Unit: 0-U0002

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 1.8 pounds per hour

15,800 pounds per year

Emission Unit: 0-U0003

CAS No: 0NY210-00-0

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Name: OXIDES OF NITROGEN
 PTE(s): 1.494 pounds per hour
 13,057 pounds per year

Emission Unit: 0-U0004

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 1.28 pounds per hour
 11,235 pounds per year

Emission Unit: 0-U0007

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 17.5 pounds per hour
 153,300 pounds per year

Condition 47: Process Permissible Emissions
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 47.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 0-EXMPT Process: FC1
 CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 0.000011 pounds per hour
 0.09382 pounds per year

Emission Unit: 0-U0002 Process: 002
 CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 1.84 pounds per hour
 16,150 pounds per year

Emission Unit: 0-U0003 Process: 2FO
 CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 0.0159 pounds per hour
 139.41 pounds per year

Emission Unit: 0-U0003 Process: NAT
 CAS No: 007446-09-5

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Name: SULFUR DIOXIDE
 PTE(s): 0.0062 pounds per hour
 53.9 pounds per year

Emission Unit: 0-U0004 Process: FO2

CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 0.0137 pounds per hour
 119.95 pounds per year

Emission Unit: 0-U0004 Process: NG1

CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 0.0053 pounds per hour
 46.38 pounds per year

Emission Unit: 0-U0007 Process: 2F7

CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 0.3804 pounds per hour
 3,332 pounds per year

Emission Unit: 0-U0007 Process: NG7

CAS No: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 0.1471 pounds per hour
 1,288 pounds per year

Emission Unit: 0-EXMPT Process: FC1

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 0.00306 pounds per hour
 26.8056 pounds per year

Emission Unit: 0-U0002 Process: 002

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 1.8 pounds per hour
 15,800 pounds per year

Emission Unit: 0-U0003 Process: 2FO

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 1.49 pounds per hour
 13,057 pounds per year

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Emission Unit: 0-U0003	Process: NAT
CAS No: 0NY210-00-0	
Name: OXIDES OF NITROGEN	
PTE(s): 1.03 pounds per hour	8,983 pounds per year
Emission Unit: 0-U0004	Process: FO2
CAS No: 0NY210-00-0	
Name: OXIDES OF NITROGEN	
PTE(s): 1.286 pounds per hour	11,235 pounds per year
Emission Unit: 0-U0004	Process: NG1
CAS No: 0NY210-00-0	
Name: OXIDES OF NITROGEN	
PTE(s): 0.8824 pounds per hour	7,729 pounds per year
Emission Unit: 0-U0007	Process: 2F7
CAS No: 0NY210-00-0	
Name: OXIDES OF NITROGEN	
PTE(s): 17.5 pounds per hour	153,300 pounds per year
Emission Unit: 0-U0007	Process: NG7
CAS No: 0NY210-00-0	
Name: OXIDES OF NITROGEN	
PTE(s): 8.5 pounds per hour	74,460 pounds per year

Condition 48: EPA Region 2 address.
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 48.1:
 This Condition applies to:

Emission Unit: 0U0007

Item 48.1:
 This Condition applies to Emission Unit: 0-U0003

Item 48.2.3:
 All requests, reports, applications, submittals, and other communications to the

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Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

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

Condition 49: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 40CFR 60.42c(d), NSPS Subpart Dc

Item 49.1:

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

Emission Unit: 0-U0003 Process: 2FO	Emission Point: E0003 Emission Source: S0007
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015
Regulated Contaminant(s): CAS No: 007446-09-5	SULFUR DIOXIDE

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

On or after the date on which the initial performance test is completed or required to be completed under section 60.8 of this part, no owner or operator of an affected facility that combusts oil shall combust oil with a sulfur content in excess of 0.5 percent by weight.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 percent by weight

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

Condition 50: Compliance Certification

Effective between the dates of 01/05/2021 and 01/04/2026

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

Item 50.1:

The Compliance Certification activity will be performed for:

Emission Unit: 0-U0003

Emission Point: E0003

Process: 2FO

Emission Source: S0007

Item 50.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the

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Facility DEC ID: 2610400132

potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: Method 9
 Monitoring Frequency: DAILY
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 4/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 51: Applicability of General Provisions of 40 CFR 60 Subpart A Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 40CFR 60, NSPS Subpart A

Item 51.1:

This Condition applies to:

- | | |
|---------------------------------------|---|
| Emission Unit: 0U0007
Process: 2F7 | Emission Point: E0007
Emission Source: S0011 |
| Emission Unit: 0U0007
Process: 2F7 | Emission Point: E0007
Emission Source: S0012 |
| Emission Unit: 0U0007
Process: 2F7 | Emission Point: E0007
Emission Source: S0013 |
| Emission Unit: 0U0007
Process: 2F7 | Emission Point: E0007
Emission Source: S0014 |

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Applicable Federal Requirement:40CFR 60.42c(h), NSPS Subpart Dc

Item 53.1:

This Condition applies to:

Emission Unit: 0U0003	Emission Point: E0003
Process: 2FO	Emission Source: S0007
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0011
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0012
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0013
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0014
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0015

Item 53.1:

This Condition applies to Emission Unit: 0-U0003 Emission Point: E0003
 Process: 2FO Emission Source: S0007

Item 53.2.3:

Compliance with emission limits and/or fuel oil sulfur limitations shall be based on a certification from the fuel supplier as stated in paragraph 40 CFR 60-Dc.48c(f)(1), (2), or (3) as applicable.

Condition 54: Enforceability

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.42c(i), NSPS Subpart Dc

Item 54.1:

This Condition applies to:

Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0011
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0012
Emission Unit: 0U0007	Emission Point: E0007
Process: 2F7	Emission Source: S0013

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Condition 56: Alternative compliance methods for sulfur dioxide.
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.44c(h), NSPS Subpart Dc

Item 56.1:

This Condition applies to:

- | | |
|-----------------------|------------------------|
| Emission Unit: 0U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0011 |
| Emission Unit: 0U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0012 |
| Emission Unit: 0U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0013 |
| Emission Unit: 0U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0014 |
| Emission Unit: 0U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0015 |

Item 56.1:

This Condition applies to Emission Unit: 0-U0003 Emission Point: E0003
 Process: 2FO Emission Source: S0007

Item 56.2.3:

Facilities demonstrating compliance through vender certification shall follow the compliance procedures listed in paragraphs 40 CFR 60-Dc.48c(f)(1), (2), or (3), as applicable.

Condition 57: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.44c(h), NSPS Subpart Dc

Item 57.1:

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

- | | |
|------------------------|------------------------|
| Emission Unit: 0-U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0011 |
| Emission Unit: 0-U0007 | Emission Point: E0007 |
| Process: 2F7 | Emission Source: S0012 |
| Emission Unit: 0-U0007 | Emission Point: E0007 |

Permit ID: 2-6104-00132/00009

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Process: 2F7	Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015

Item 57.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

THE FACILITY OWNER AND/OR OPERATOR MUST DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS OF 40 CFR 60.42c(h). FACILITIES DEMONSTRATING COMPLIANCE USING THE FUEL SUPPLIER CERTIFICATION, FOR SULFUR-IN-FUEL LIMITATIONS (BASED ON A PERCENT BY WEIGHT OF SULFUR IN THE FUEL), SHALL SUBMIT THE CERTIFICATION IN ACCORDANCE WITH THE PROVISIONS OF 40 CFR 60.48c(f)(1), (2), AND (3), AS APPLICABLE.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 percent by weight

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 58: Exemption from sulfur dioxide monitoring requirements. Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 40CFR 60.46c(e), NSPS Subpart Dc

Item 58.1:

This Condition applies to:

Emission Unit: 0U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0U0007	Emission Point: E0007

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Process: 2F7

Emission Source: S0015

Item 58.1:

This Condition applies to Emission Unit: 0-U0003 Emission Point: E0003
 Process: 2FO Emission Source: S0007

Item 58.2.3:

Facilities subject to paragraphs 40 CFR 60-Dc.42c(h)(1), (2), or (3) showing compliance through vendor certification shall be exempt from section 40 CFR 60-Dc.46c.

Condition 59: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 40CFR 60.48c(d), NSPS Subpart Dc

Item 59.1:

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015

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

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit semi-annual reports to the Administrator.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

The initial report is due 4/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 60: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement: 40CFR 60.48c(e)(1), NSPS Subpart Dc

Item 60.1:

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015

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

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records as required under §60.48c(d) including the following information.

Calendar dates covered in the reporting period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

Condition 61: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Applicable Federal Requirement:40CFR 60.48c(e)(2), NSPS Subpart Dc

Item 61.1:

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015
Regulated Contaminant(s): CAS No: 007446-09-5 SULFUR DIOXIDE	

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

Each 30-day average SO2 emission rate, or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective action taken.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

Condition 62: Compliance Certification

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.48c(e)(3), NSPS Subpart Dc

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

Item 62.1:

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015

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

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

Each 30-day average percent of potential SO2 emission rate calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective action taken.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

Condition 63: Compliance Certification
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.48c(e)(11), NSPS Subpart Dc

Item 63.1:

Permit ID: 2-6104-00132/00009

Facility DEC ID: 2610400132

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015
Regulated Contaminant(s): CAS No: 007446-09-5 SULFUR DIOXIDE	

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records as required under §60.48c(d) including the following information.

If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph §60.48c(f)(1)(2) or (3). In addition to records of fuel supplier certification, the semi-annual report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

Condition 64: Compliance Certification

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.48c(g), NSPS Subpart Dc

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Item 64.1:

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0014
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0015

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

Condition 65: Compliance Certification

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable Federal Requirement:40CFR 60.48c(i), NSPS Subpart Dc

Item 65.1:

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

Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0011
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0012
Emission Unit: 0-U0007 Process: 2F7	Emission Point: E0007 Emission Source: S0013
Emission Unit: 0-U0007	Emission Point: E0007

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Process: 2F7

Emission Source: S0014

Emission Unit: 0-U0007

Emission Point: E0007

Process: 2F7

Emission Source: S0015

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

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STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

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

Condition 66: Contaminant List

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:ECL 19-0301

Item 66.1:

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

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

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

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

Condition 67: Malfunctions and start-up/shutdown activities

Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 201-1.4

Item 67.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in

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an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 68: CLCPA Applicability
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 201-6.5 (a)

Item 68.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 69: Air pollution prohibited
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 211.1

Item 69.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this

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prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 70: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.4 (d)

Item 70.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 70.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person may combust materials other than human and animal remains, their associated containers, pathological waste, and incidental animal bedding in any cremation unit unless prior written authorization has been obtained from the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 71: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.4 (e)

Item 71.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 71.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person may cause or allow the combustion of human and animal remains in any cremation unit unless a cremation certification form has been completed. Each cremation certification form shall contain the following information at a minimum:

(1) The name, title, and affiliation of the person providing the remains for cremation;

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- (2) An attestation signed by the person providing the remains for cremation attesting that the remains and their container do not contain materials prohibited from being combusted by 6 NYCRR Subpart 219-4;
- (3) The name and signature of the person accepting the remains for cremation; and
- (4) The date the remains were accepted for cremation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 72: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.4 (f)

Item 72.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 72.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person may cause or allow human or animal remains to be charged at a crematory facility in excess of the manufacturer's rated hourly capacity of the cremation unit.

Parameter Monitored: FEED RATE

Upper Permit Limit: 200 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 73: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.6 (a)

Item 73.1:

The Compliance Demonstration activity will be performed for the Facility.

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Item 73.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No cremation unit subject to the requirements of 6 NYCRR Subpart 219-4 is permitted to operate unless it is operated under the onsite supervision of a person possessing a valid crematory operator certification issued by the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 74: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.7 (a)

Item 74.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 74.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a crematory facility must inspect each cremation unit at that facility at least once per calendar year. The facility owner or operator shall perform all necessary repairs and routine maintenance in order to ensure that each cremation unit, monitoring device, and control device is operated and maintained in accordance with manufacturer's instructions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2021.

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

Condition 75: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.8 (a)

Item 75.1:

The Compliance Demonstration activity will be performed for the Facility.

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Item 75.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a crematory facility must maintain the following records at the facility for a period of at least five years:

- (1) Continuous secondary chamber temperature monitoring records indicating the date and time of each cremation performed;
- (2) Operator training and certification records for all operators at the facility;
- (3) A record of the date, time, and cause of all malfunctions and any corrective action taken to resolve them;
- (4) A record of any maintenance performed on each cremation unit, including the annual inspection required by 6 NYCRR Section 219-4.7, and the routine replacement of parts and components; and
- (5) A copy of each cremation certification form created pursuant to 6 NYCRR Subdivision 219-4.4(e).

All records kept pursuant to this condition must be provided to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 76: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement: 6 NYCRR 219-4.8 (b)

Item 76.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 76.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a crematory facility must maintain the following records at the facility for the lifetime of each cremation unit installed at the facility:

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(1) Manufacturer's operating instructions for each cremation unit and any associated monitoring equipment or emissions controls; and

(2) A copy of the most recent stack test submitted to the Department to demonstrate compliance with the requirements of 6 NYCRR Subpart 219-4.

Records kept pursuant to this condition must be provided to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 77: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement: 6 NYCRR 219-4.9

Item 77.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 77.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing cremation unit shall:

(1) Obtain appropriate operator certifications, as described in 6 NYCRR Section 219-4.6, within 12 months of the effective date of 6 NYCRR Subpart 219-4 for each uncertified operator at the facility;

(2) Demonstrate compliance with the requirements of 6 NYCRR Subpart 219-4 no later than 60 months from the effective date of Subpart 219-4. A demonstration of final compliance shall include the following information for each existing cremation unit:

(i) An emissions testing report, as described in 6 NYCRR Section 219-4.5, indicating that each existing cremation unit meets the particulate matter emission limit specified in 6 NYCRR Subdivision 219-4.3(a);

(ii) Documentation indicating that each existing cremation unit meets the requirements of 6 NYCRR Subpart 219-4;

(iii) Documentation of the certification status of each

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operator at the facility.

(3) The owner or operator of an existing cremation unit may submit a written request for a single extension of the deadline described in paragraph (2) above. The request shall describe in detail the circumstances necessitating the extension and shall propose a projected final compliance date. The Department, in its sole discretion, shall approve or deny the request on a case by case basis.

For existing cremation units that cannot meet the requirements of Subpart 219-4, the owner or operator shall submit a written plan to the Department that describes the proposed schedule for the replacement or removal of the affected cremation unit. Such written plan must be submitted within 60 days of the owner or operator becoming aware that the unit cannot meet the requirements of Subpart 219-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 78: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement: 6 NYCRR 219-4.3 (a)

Item 78.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-U0002	Emission Point: E0002
Process: 002	Emission Source: S0006

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

Item 78.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No person may cause or allow emissions of particulates into the outdoor atmosphere from an existing cremation unit in excess of 0.08 grains per dry standard cubic foot of flue gas, corrected to seven percent oxygen.

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Compliance with this condition will be demonstrated according to the stack testing requirements outlined in 6 NYCRR Section 219-4.5.

Manufacturer Name/Model Number: JK Environmental SP-300 crematorium
 Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.08 grains per dry standard cubic foot (corrected to 7% O₂)
 Reference Test Method: EPA Reference Test Method 5
 Averaging Method: Arithmetic average of stack test runs
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 79: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.4 (a)

Item 79.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-U0002	Emission Point: E0002
Process: 002	Emission Source: S0006

Item 79.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person may cause or allow emissions to the outdoor atmosphere having a six-minute average opacity of 10 percent or greater from any cremation unit. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Manufacturer Name/Model Number: JK Environmental SP-300 crematorium
 Parameter Monitored: OPACITY
 Upper Permit Limit: 10 percent
 Reference Test Method: EPA Reference Test Method 9
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 10/30/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 80: Compliance Demonstration
Effective between the dates of 01/05/2021 and 01/04/2026

Applicable State Requirement:6 NYCRR 219-4.4 (b)

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Item 80.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-U0002 Emission Point: E0002
 Process: 002 Emission Source: S0006

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

Item 80.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The owner or operator of a cremation unit (JK Environmental Company / SP-300) must maintain a one-hour average temperature of at least 1600 degrees Fahrenheit in the secondary combustion chamber, with a minimum residence time for combustion gases of at least one second, at all times remains are being cremated.

The owner or operator of a cremation unit must install, operate, calibrate, and maintain, in accordance with manufacturer's instructions, instruments meeting specifications acceptable to the commissioner for continuously monitoring and recording the secondary chamber combustion temperature. The temperature charts produced by the continuous monitor/recorder shall demonstrate compliance with the combustion operating temperature requirements. Any malfunction of the monitor or recorder shall be reported to the NYSDEC within 24 hours of occurrence and corrective action shall be implemented immediately. Records of operation, monitoring, maintenance and repair shall be kept onsite for five years and shall be readily available for NYSDEC review upon request.

Manufacturer Name/Model Number: HONEYWELL UDC2000 MONITOR/HONEYWELL DR4200GP RECORDER

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1600 degrees Fahrenheit for at least one second for residence time

Upper Permit Limit: 1800 degrees Fahrenheit for at least one second for residence time

Reference Test Method: INSTANTANEOUS

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2021.

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

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