



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-1402-00406/00007
Effective Date: 06/12/2015 Expiration Date: 06/11/2025

Permit Issued To: ROSWELL PARK CANCER INSTITUTE CORP
666 ELM & CARLTON STS
BUFFALO, NY 14263

Facility: ROSWELL PARK CANCER INSTITUTE
666 ELM & CARLTON STS
BUFFALO, NY 14263

Contact: RAYMOND A JONES
666 ELM & CARLTON STREETS
BUFFALO, NY 14263
(716) 845-8138

Description:

ROSWELL PARK CANCER INSTITUTE
AIR STATE FACILITY PERMIT
DEC ID 9-1402-00406/00007
REN 1, MOD 0

The Roswell Park Cancer Institute (RPCI) is a cancer treatment and research center located on Carlton and Elm Streets in Buffalo, New York. The RPCI complex, which encompasses seven city blocks, contains patient care elements (hospital and clinics), research laboratories, medical and support offices, and housing for research animals. Currently, RPCI operates boilers, which supply heat and process operating steam throughout RPCI's hospital/research complex including for the operation of a sterilizer for onsite treatment of regulated medical waste. RPCI also operates compression ignition reciprocating internal combustion engines (CI RICE) to generate electricity for emergencies and for participation in an emergency demand response program. The Standard Industrial Classification (SIC) Code for this facility is 8069- Specialty Hospitals, Except Psychiatric.

The RPCI complex contains Emission Unit, U-00001, which consists of five processes. Process 001 is the combustion of natural gas in three mid-size, dual fueled 83 million BTU per hour (mmBTU/hr) boilers located in the Power House. Process 005 is the combustion of No. 2 fuel oil in the midsize boilers. To control NOx emissions, each of the Power House boilers (Emission Sources



(ES) 001-1, 001-2, and 001-3) are equipped with low NO_x burners (Emission Source Controls (ESC) 0C1-1, 0C1-2, and 0C1-3, respectively) and flue gas re-circulation (ESCs FGR-1, FGR-2, and FGR-3, respectively). Emissions from ES 001-1, 001-2 and 001-3 exhaust to a common stack, identified as Emission Point 0001. Process CIE is the operation of existing emergency CI RICE, including Emission Sources CIEL1, CIEL2, CIEL3, CIEL4, CIEL5, CIEL6, CIEL7, CIEL8, CIEL9, CIELA, and CIES1. Process CIN is the operation of new emergency CI RICE, including Emission Sources CINL1 and CINL2. Emission Unit U-00001 also contains Process SAN, the operation of an autoclave using process steam for treatment of regulated medical waste and animal bedding prior to offsite disposal in a landfill. The autoclave is identified as ES SAN-1.

This ASF permit renewal contains the addition of a federally enforceable greenhouse gas (GHG) emissions limit established to avoid the requirements of the Prevention of Significant Deterioration (PSD) and Title V Greenhouse Gas Tailoring Rule. The sources that contribute to GHG emissions include, but are not limited to, the combustion sources contained in EU U-0001 and seven exempt natural gas fired boilers. RPCI will monitor emissions of GHGs from fuel combustion using 40 CFR 98 emission factors and actual monthly fuel use. Carbon dioxide equivalent (CO₂e) emissions will be calculated monthly on a 12-month rolling total basis, then compared to the facility-wide emission cap of 99,000 tpy CO₂e. This renewal also includes the addition of the formerly exempt CI RICE emergency generators and applicable requirements to the ASF permit. All of the CI RICE emergency generators participate in the New York Independent System Operator (NYISO) demand response program for a maximum of 100 hours per year, each. Eleven existing CI RICE are subject to applicable requirements specified in 40 CFR Part 63, Subpart ZZZZ -National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and 40CFR63, Subpart A - General Provisions. Two new CI RICE must comply with applicable requirements specified in 40CFR60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40CFR60, Subpart A- General Provisions. Other changes made to the ASF permit include the removal of Boiler #4 (Emission Source 001-4, ES Control 0C1-4 and ES FGR-4), updating applicable requirements under 40CFR60, Subpart Dc for the Powerhouse boilers, and updating the sulfur limits for fuel specified in 6NYCRR225-1.

In addition to the facility CAP on CO₂e, RPCI operates the mid-size Power House boilers, the CI RICE emergency generators and the exempt combustion sources throughout the medical campus, restricting total actual emissions of CO, SO₂ and NO_x from the facility to 99 tpy, each to avoid the requirements of 6NYCRR201-6, Title V Facility Permits, 6NYCRR231, New Source Review



(NSR) for New and Modified Facilities, 6NYCRR227-2, Reasonably Available Control Technology for Oxides of Nitrogen (NO_x RACT) and 40CFR52.21, Prevention of significant deterioration of air quality (PSD). The mid-size boilers are subject to the requirements of 6NYCRR227-1, Stationary Combustion Installations, 40CFR60, Subpart A—General Provisions and 40CFR60, and Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. All fuel oil and diesel used at RPCI is subject to 6NYCRR225-1, Fuel Composition and Use-Sulfur Limitations. The autoclave is subject to the requirements of 6NYCRR211.1 -Air Pollution Prohibited.

This Air State Facility permit contains a complete listing of the applicable federal and state requirements for the facility and specifies the monitoring, recordkeeping and reporting necessary to verify compliance with all limits and requirements.

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: DAVID S DENK
 DIVISION OF ENVIRONMENTAL PERMITS
 270 MICHIGAN AVE
 BUFFALO, NY 14203-2915

Authorized Signature: _____ Date: ____ / ____ / ____



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.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS



DEC GENERAL CONDITIONS
****** General Provisions ******
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 expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for 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.



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 9 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 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915
(716) 851-7165

New York State Department of Environmental Conservation

Permit ID: 9-1402-00406/00007

Facility DEC ID: 9140200406



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

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666 ELM & CARLTON STS
BUFFALO, NY 14263

Facility: ROSWELL PARK CANCER INSTITUTE
666 ELM & CARLTON STS
BUFFALO, NY 14263

Authorized Activity By Standard Industrial Classification Code:
8069 - SPECIALTY HOSPITALS, EXCEPT PSYCHIATRIC

Permit Effective Date: 06/12/2015

Permit Expiration Date: 06/11/2025



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.3: False statement
- 2 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *4 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *5 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *6 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 7 6 NYCRR 211.1: Air pollution prohibited
- 8 6 NYCRR 211.1: Compliance Demonstration
- 9 6 NYCRR 225-1.2: Compliance Demonstration
- 10 6 NYCRR 227-1.3: Compliance Demonstration
- 11 40CFR 60, NSPS Subpart A: Applicability of Subpart A General Provisions
- 12 40CFR 60, NSPS Subpart III: Compliance Demonstration
- 13 40CFR 60.4205, NSPS Subpart III: Compliance Demonstration
- 14 40CFR 60.4206, NSPS Subpart III: Duration of emission standards for new stationary compression ignition IC engines
- 15 40CFR 60.4207(b), NSPS Subpart III: Compliance Demonstration
- 16 40CFR 60.4208, NSPS Subpart III: Compliance Demonstration
- 17 40CFR 60.4209(a), NSPS Subpart III: Compliance Demonstration
- 18 40CFR 60.4211(a), NSPS Subpart III: Compliance Demonstration
- 19 40CFR 60.4211(c), NSPS Subpart III: Compliance Demonstration
- 20 40CFR 60.4211(f), NSPS Subpart III: Compliance Demonstration
- 21 40CFR 60.4211(g), NSPS Subpart III: Compliance Demonstration
- 22 40CFR 60.4214, NSPS Subpart III: Compliance Demonstration
- 23 40CFR 60.4218, NSPS Subpart III: General Provisions
- 24 40CFR 63, Subpart A: General Provisions
- 25 40CFR 63, Subpart ZZZZ: Compliance Demonstration
- 26 40CFR 63.6603(a), Subpart ZZZZ: Compliance Demonstration
- 27 40CFR 63.6604, Subpart ZZZZ: Fuel requirements for existing emergency stationary CI RICE
- 28 40CFR 63.6605(a), Subpart ZZZZ: Compliance required at all times
- 29 40CFR 63.6605(b), Subpart ZZZZ: Operate and maintain air pollution control and monitoring equipment consistent with good engineering practices
- 30 40CFR 63.6625(e), Subpart ZZZZ: Compliance Demonstration
- 31 40CFR 63.6625(f), Subpart ZZZZ: Compliance Demonstration
- 32 40CFR 63.6625(h), Subpart ZZZZ: Compliance Demonstration
- 33 40CFR 63.6625(i), Subpart ZZZZ: Compliance Demonstration
- 34 40CFR 63.6640(a), Subpart ZZZZ: Compliance Demonstration
- 35 40CFR 63.6640(e), Subpart ZZZZ: Compliance Demonstration
- 36 40CFR 63.6640(f), Subpart ZZZZ: Compliance Demonstration
- 37 40CFR 63.6650(h), Subpart ZZZZ: Compliance Demonstration
- 38 40CFR 63.6655, Subpart ZZZZ: Compliance Demonstration
- 39 40CFR 63.6660, Subpart ZZZZ: Compliance Demonstration
- 40 40CFR 63.6665, Subpart ZZZZ: General provisions

Emission Unit Level



EU=U-00001

41 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

EU=U-00001,Proc=005

42 40CFR 60.44c(h), NSPS Subpart Dc: Alternative compliance methods for sulfur dioxide.

43 40CFR 60.45c(a), NSPS Subpart Dc: Compliance Demonstration

44 40CFR 60.48c(e), NSPS Subpart Dc: Compliance Demonstration

EU=U-00001,EP=00001

45 40CFR 60.47c(c), NSPS Subpart Dc: Emissions monitoring

46 40CFR 60.48c(j), NSPS Subpart Dc: Reporting period

EU=U-00001,EP=00001,Proc=005

47 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Demonstration

48 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.

49 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability

50 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration

51 40CFR 60.43c(d), NSPS Subpart Dc: Enforceability of particulate matter and opacity standards.

52 40CFR 60.47c(f), NSPS Subpart Dc: Compliance Demonstration

53 40CFR 60.48c(b), NSPS Subpart Dc: Compliance Demonstration

54 40CFR 60.48c(c), NSPS Subpart Dc: Compliance Demonstration

55 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Demonstration

56 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

57 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

58 ECL 19-0301: Contaminant List

59 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

60 6 NYCRR Subpart 201-5: Emission Unit Definition

61 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits

62 6 NYCRR 201-5.3 (c): Compliance Demonstration

63 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

64 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

65 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought 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 and/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;
- (3) During the period of the emergency the facility owner and/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 and/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 and/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 F: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

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.

Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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 I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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 J: Required Emission Tests - 6 NYCRR 202-1.1



An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item L: 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 M: 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.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: False statement



Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR 200.3

Item 1.1:

No person shall make a false statement in connection with applications, plans, specifications and/or reports submitted pursuant to this Subchapter.

Condition 2: Facility Permissible Emissions

Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2.1:

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: 000630-08-0	PTE: 198,000	pounds per year
Name: CARBON MONOXIDE		
CAS No: 007446-09-5	PTE: 198,000	pounds per year
Name: SULFUR DIOXIDE		
CAS No: 0NY210-00-0	PTE: 198,000	pounds per year
Name: OXIDES OF NITROGEN		
CAS No: 0NY750-00-0	PTE: 198,000,000	pounds per year
Name: CARBON DIOXIDE EQUIVALENTS		

Condition 3: Capping Monitoring Condition

Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Replaces Condition(s) 1-3

Item 3.1:

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 201-6
- 6 NYCRR Subpart 227-2
- 6 NYCRR Part 231

Item 3.2:

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

Item 3.3:

New York State Department of Environmental Conservation

Permit ID: 9-1402-00406/00007

Facility DEC ID: 9140200406



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 3.4:

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 3.5:

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 3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1. Roswell Park Cancer Institute (RPCI) operates fossil-fuel boilers totaling 249 million British thermal units per hour (MMBTU/hr) heat input at the Power House and emergency generators and exempt combustion sources throughout the hospital campus with a facility wide annual potential to emit (PTE) oxides of nitrogen (NO_x) that exceeds the 100 tpy applicability threshold specified under 6NYCRR Subpart 201-6: Title V Facility Permits, 6NYCRR Subpart 227-2: Reasonably Available Control Technology (RACT) for NO_x and 6NYCRR Subpart 231: New Source Review (NSR) for New and Modified Facilities. RPCI has chosen to avoid the requirements of Title V, NO_x RACT and NSR by limiting facility-wide total emissions of NO_x to 99 tons per year.

2. The emission sources contributing to the facility NO_x emissions include three dual fueled stationary combustion installations (boilers), with 83 MMBTU/hr maximum design heat input capacity each, identified as Emission Sources (ES) 001-1, 001-2 and 001-3. The Facility may fuel these



emission sources with natural gas (Process 001) and/or No. 2 fuel oil (Process 005) provided the facility NO_x emission cap is maintained. RPCI also operates thirteen generators that are used for emergencies and participation in the New York Independent System Operator (NYISO) demand response program for a maximum of 100 hours per year. The boilers and generator are contained in Emission Unit U-00001. Exempt combustion sources throughout the campus, including but not limited to, seven small natural gas fired boilers, also contribute to facility-wide NO_x emissions and must be included in the calculation of NO_x emissions on a 12-month rolling total basis to determine compliance with the 99 tpy limit.

3. RPCI must prepare monthly NO_x emission records. Annual totals shall be based on a 12-month rolling total of NO_x as determined by summing the individual monthly emissions during any consecutive 12-month period. Monthly emissions shall be determined as follows:

$$\text{NO}_x \text{ (tons/mo)} = A + B + C + D + E$$

where,

A = Monthly NO_x emission rate in tons based on natural gas usage for ES 001-1, ES 001-2 and ES 001-3.
 $A = (102 \text{ lbs NO}_x^* / 10E+6 \text{ scf}) \times (\text{cf natural gas burned/month}) \times (\text{ton}/2000 \text{ lb})$

B = Monthly NO_x emission rate in tons based on No. 2 oil usage for ES 001-1, ES 001-2 and ES 001-3.
 $B = (0.017 \text{ lbs NO}_x^* / \text{gal No. 2 oil}) \times (\text{gallons No. 2 oil burned/month}) \times (\text{ton}/2000 \text{ lb})$.

C = Monthly NO_x emission rate in tons based on natural gas usage for small natural gas boilers (max heat input less than 10 MMBTU/hr).
 $C = (100 \text{ lbs NO}_x^{**} / 10E+6 \text{ scf}) \times (\text{cf natural gas burned/month}) \times (\text{ton}/2000 \text{ lb})$.

D = Monthly NO_x emission rate in tons based on fuel (No. 2 oil or diesel) usage for the emergency generators rated 447 kW (600 hp) or less.
 $D = (4.41 \text{ lbs NO}_x^{**} / \text{MMBTU}) \times (0.14 \text{ MMBTU}/\text{gal fuel}) \times (\text{gallons fuel burned/month}) \times (\text{ton}/2000 \text{ lb})$.

E = Monthly NO_x emission rate in tons based on fuel (No. 2 oil or diesel) usage for the emergency generators rated above 447 kW (600 hp).
 $E = (3.2 \text{ lbs NO}_x^{**} / \text{MMBTU}) \times (0.14 \text{ MMBTU}/\text{gal fuel}) \times (\text{gallons fuel burned/month}) \times (\text{ton}/2000 \text{ lb})$.



*Emission factor is performance guarantee extended from 25% to 100% boiler load, provided that the system is operated at steady state conditions with a minimum 10% flue gas recirculation, in accordance with the Burner Design Basis and Specifications for the TODD Combustion Variflame low NO_x burner, Model V5451GOXXX. The maximum emission levels for both natural gas and No. 2 fuel oil are corrected to 3% oxygen, on a dry gas basis. A heating value of 1020 BTU/scf for natural gas and 140,000 BTU/gal for No 2 fuel oil were assumed to convert from lb/MMBTU to lb/10E+06 scf and lb/gal, respectively.

**Emission factors for NO_x: USEPA Compilation of Air Pollution Emission Factors, AP42, Volume 1, Fifth Edition. For engines subject to 40CFR60, Subpart IIII requirements, the manufacturer's engine emissions data should be used to determine monthly emissions based on the worst case scenario.

4. The Facility shall maintain records showing the quantity of fuel burned on a monthly basis and compute annual NO_x emissions using a rolling 12-month period. Records shall be based on verifiable data such as fuel metering data and fuel purchase records to confirm the general accuracy of the monthly fuel usage amounts. All fuel use records and corresponding emission calculations shall be kept on site for a minimum of five years.

5. The Facility shall submit to the Regional Office of the Department an annual NO_x emission report which certifies that the Facility has operated within the limits imposed by the emission cap for Title V, NO_x RACT, and NSR. This report shall include the Power House boilers, emergency generators and exempt combustion sources. Monthly NO_x emissions for the combustion sources and the 12-month rolling total for each consecutive month of the calendar year shall be listed, with a comparison to the 99 tpy limit. Fuel usage, formulas and/or calculations used to verify compliance with this limit shall be included as an attachment to the Capping Certification Report. The annual report shall be submitted on or before January 30th each year for emissions that occurred in the previous calendar year.

6. Any noncompliance with the NO_x emission limit shall be reported to the Department within 30 days of occurrence. Any permit noncompliance constitutes a violation of Title V, NO_x RACT and NSR and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.



7. All submittals to the Department shall be certified by RPCI's responsible official as to the truth, completeness, and accuracy of all information recorded and reported.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 99 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 12 calendar month(s).

Condition 4: Capping Monitoring Condition
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Replaces Condition(s) 1-4

Item 4.1:

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 201-6
40 CFR 52.21

Item 4.2:

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

Item 4.3:

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 4.4:

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 4.5:

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 4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1. Roswell Park Cancer Institute (RPCI) operates fossil-fuel boilers totaling 249 million British thermal units per hour (MMBTU/hr) heat input at the Power House and emergency generators and exempt combustion sources throughout the hospital campus. These combustion sources have a facility wide annual potential to emit (PTE) sulfur dioxide (SO₂) that exceeds the major source applicability threshold of 100 tpy specified under 6NYCRR Subpart 201-6, "Title V Facility Permits" and the applicability threshold of 250 tpy specified under 40CFR52.21, "Prevention of significant deterioration of air quality (PSD). The Facility has chosen to avoid the requirements of Title V and PSD by limiting facility-wide total emissions of SO₂ to 99 tons per year.
2. The emission sources contributing to the facility SO₂ emissions include three dual fueled stationary combustion installations (boilers), with 83 MMBTU/hr maximum design heat input capacity each, identified as Emission Sources (ES) 001-1, 001-2 and 001-3. The Facility may fuel these emission sources with natural gas (Process 001) and/or No. 2 fuel oil (Process 005) provided the facility SO₂ emission cap is maintained. RPCI also operates thirteen generators that are used for emergencies and participation in the New York Independent System Operator (NYISO) demand response program for a maximum of 100 hours per year. The boilers and generators are contained in Emission Unit U-00001. Exempt combustion sources throughout the campus, including but not limited to, seven small natural gas fired boilers, also contribute to facility-wide SO₂ emissions and must be included in the calculation of SO₂ emissions on a 12-month rolling total basis to determine compliance with the 99 tpy limit.
3. RPCI must prepare monthly SO₂ emission records. Annual totals shall be based on a 12-month rolling total basis as determined by summing the individual monthly



emissions of SO₂ during any consecutive 12-month period.
Monthly emissions shall be determined as follows:

$$\text{SO}_2 \text{ (tons/mo)} = A + B + C + D$$

where,

A = Monthly SO₂ emission rate in tons based on natural gas usage for units with a maximum heat input less than 100 MMBTU/hr, including ES 001-1, ES 001-2, and ES 001-3 and exempt small natural gas fired boilers.

$$A = (0.6 \text{ lbs SO}_2 / 10\text{E}+6 \text{ cf}) \times (\text{cf natural gas burned/month}) \times (\text{ton}/2000 \text{ lb})$$

B = Monthly SO₂ emission rate in tons based on No. 2 oil usage in ES 001-1, ES 001-2, and ES 001-3.

$$B = ((0.142 \times S) \text{ lbs SO}_2 / \text{gal No. 2 oil}) \times (\text{gallons No. 2 oil burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

where S indicates that the weight percent sulfur in the No. 2 oil should be multiplied by the value given. In accordance with 40CFR60 Subpart Dc, the content of sulfur in the No. 2 oil shall not exceed 0.5% by weight.

C = Monthly SO₂ emission rate in tons based on fuel (No. 2 oil/diesel) usage for the emergency generators rated 447 kW (600 hp) or less.

$$C = (0.29 \text{ lbs SO}_2 / \text{MMBTU}) \times (0.14 \text{ MMBTU/gal fuel}) \times (\text{gallons fuel burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

D = Monthly SO₂ emission rate in tons based on fuel (No. 2 oil/diesel) usage for the emergency generators rated above 447 kW (600 hp).

$$D = ((1.01 \times S1) \text{ lbs SO}_2 / \text{MMBTU}) \times (0.14 \text{ MMBTU/gal fuel}) \times (\text{gallons fuel burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

where S1 = weight percent sulfur in No. 2/diesel fuel which should be multiplied by the value given.

All emission factors for SO₂: USEPA Compilation of Air Pollution Emission Factors, AP42, Volume 1, Fifth Edition, Chapter 1: External Combustion Sources and Chapter 3: Stationary Internal Combustion Sources.

4. The Facility shall maintain records showing the quantity of fuel burned on a monthly basis and compute annual SO₂ emissions using a rolling 12-month period. Records shall be based on verifiable data such as fuel metering data and fuel purchase records to confirm the general accuracy of the monthly fuel usage amounts. All fuel use records, corresponding emission calculations and reports shall be kept on site for a minimum of five years.



5. The Facility shall submit to the Regional Office of the Department an annual SO₂ emission report which certifies that the Facility has operated within the limits imposed by the emission cap for Title V and PSD. This report shall include the Power House boilers and exempt combustion sources. Monthly SO₂ emissions for the facility and the 12-month rolling total for each consecutive month of the calendar year shall be listed, with a comparison to the 99 tpy limit. Fuel usage, formulas and/or calculations used to verify compliance with this limit shall be included as an attachment to the Capping Certification Report. The annual report shall be submitted on or before January 30th each year for emissions that occurred in the previous calendar year.

6. Any noncompliance with the SO₂ emission limit shall be reported to the Department within 30 days of occurrence. Any permit noncompliance constitutes a violation of Title V and PSD and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

7. All submittals to the Department shall be certified by RPCI's responsible official as to the truth, completeness, and accuracy of all information recorded and reported.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 99 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 5: Capping Monitoring Condition
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Replaces Condition(s) 1-5

Item 5.1:

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 201-6

Item 5.2:



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

Item 5.3:

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 5.4:

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 5.5:

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 5.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 5.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1. Roswell Park Cancer Institute (RPCI) operates fossil-fuel boilers totaling 249 million British thermal units per hour (MMBTU/hr) heat input at the Power House and emergency generators and exempt combustion sources throughout the hospital campus. These combustion sources have a facility wide annual potential to emit (PTE) carbon monoxide (CO) that exceeds the major source applicability threshold of 100 tpy specified under 6NYCRR Subpart 201-6: Title V Facility Permits. The Facility has chosen to avoid the requirements of Title V by limiting facility-wide total emissions of CO to 99 tons per year.
2. The emission sources contributing to the facility CO emissions include three dual fueled stationary combustion installations (boilers), with 83 MMBTU/hr maximum design heat input capacity each, identified as Emission Sources



(ES) 001-1, 001-2 and 001-3. The Facility may fuel these emission sources with natural gas (Process 001) and/or No. 2 fuel oil (Process 005) provided the facility CO emission cap is maintained. RPCI also operates thirteen generators that are used for emergencies and participation in the New York Independent System Operator (NYISO) demand response program for a maximum of 100 hours per year. The boilers and generators are contained in Emission Unit U-00001. Exempt combustion sources throughout the campus, including but not limited to, seven small natural gas fired boilers, also contribute to facility-wide CO emissions and must be included in the calculation of CO emissions on a 12-month rolling total basis to determine compliance with the 99 tpy limit.

3. RPCI must prepare monthly CO emission records. Monthly fuel usage quantities shall be used to calculate the monthly CO emissions. Annual totals shall be based on a 12-month rolling total basis as determined by summing the individual monthly emissions of CO during any consecutive 12-month period. Monthly emissions shall be determined as follows:

$$\text{CO (tons/mo)} = A + B + C + D + E$$

where,

A = CO emission rate in tons per month based on natural gas usage for ES 001-1, ES 001-2 and ES 001-3.

$$A = (151 \text{ lbs CO}^*/10 \text{ E}+06 \text{ cf nat gas}) \times (\text{cf nat. gas burned/mo}) \times (\text{ton}/2000\text{lb})$$

B = CO emission rate in tons for a specified time period based on No. 2 oil usage for ES 001-1, ES 001-2 and ES 001-3.

$$(0.022 \text{ lb CO}^*/\text{gal No. 2 oil}) \times (\text{gal No. 2 oil burned/mo}) \times (\text{ton}/2000\text{lb})$$

C = Monthly CO emission rate in tons based on natural gas usage in small natural gas boilers (max heat input less than 10 MMBTU/hr).

$$C = (84 \text{ lbs CO}^{**}/10 \text{ E}+06 \text{ cf nat gas}) \times (\text{cf nat gas burned/mo}) \times (\text{ton}/2000 \text{ lb})$$

D = Monthly CO emission rate in tons based on fuel (No. 2 oil/diesel) usage for the emergency generators rated at 447 kW (600 hp) or less.

$$D = (0.133 \text{ lbs CO}^{**}/\text{gal fuel}) \times (\text{gal fuel burned/mo}) \times (\text{ton}/2000 \text{ lb}).$$

E = Monthly CO emission rate in tons based on fuel (No. 2 oil/diesel) usage for the emergency generators rated above



447 kW (600 hp).

$E = (0.119 \text{ lbs CO}^{**}/ \text{ gal fuel}) \times (\text{gal fuel burned}/\text{mo}) \times (\text{ton}/2000 \text{ lb}).$

*Emission factor is performance guarantee extended from 25% to 100% boiler load for the TODD Combustion Vari flame burner, Model V5451GOXXX (Boilers ES 001-1, ES 001-2, and ES 001-3) provided that the system is operated at steady state conditions and in accordance with the Burner Design Basis and Specifications. These maximum emission levels are corrected to 3% oxygen, on a dry gas basis for both natural gas and No. 2 fuel oil. A heating value of 1020 BTU/scf for natural gas and 140,000 BTU/gal for No 2 fuel oil were assumed to convert from lb/MMBTU to lb/10E+06 scf and lb/gal, respectively.

**Emission factors for CO: USEPA Compilation of Air Pollution Emission Factors, AP42, Volume 1, Fifth Edition. Heating values of 1020 BTU/scf for natural gas and 140,000 BTU/gal for No 2 fuel oil were assumed. For engines subject to 40CFR60, Subpart III requirements, the manufacturer's engine emissions data should be used to determine monthly emissions based on the worst case scenario.

4. The Facility shall maintain records showing the quantity of fuel burned on a monthly basis and compute annual CO emissions using a rolling 12-month period. Records shall be based on verifiable data such as fuel metering data and fuel purchase records to confirm the general accuracy of the monthly fuel usage amounts. All fuel use records and corresponding emission calculations shall be kept on site for a minimum of five years.

5. The Facility shall submit to the Regional Office of the Department an annual CO emission report which certifies that the Facility has operated within the limits imposed by the emission cap for Title V. This report shall include the Power House boilers and exempt combustion sources. Monthly CO emissions for the facility and the 12-month rolling total for each consecutive month of the calendar year shall be listed, with a comparison to the 99 tpy limit. Fuel usage, formulas and/or calculations used to verify compliance with this limit shall be included as an attachment to the Capping Certification Report. The annual report shall be submitted on or before January 30th each year for emissions that occurred in the previous calendar year.

6. Any noncompliance with the CO emission limit shall be reported to the Department within 30 days of occurrence. Any permit noncompliance constitutes a violation of Title

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V and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

7. All submittals to the Department shall be certified by RPCI's responsible official as to the truth, completeness, and accuracy of all information recorded and reported.

Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 99 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 12 calendar month(s).

Condition 6: Capping Monitoring Condition
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 6.1:

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 201-6

Item 6.2:

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

Item 6.3:

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 6.4:

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 6.5:

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 6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Prevention of Significant Deterioration and Title V
Greenhouse Gas Tailoring Rule

The Prevention of Significant Deterioration (PSD) and Title V Greenhouse Gas Tailoring Rule requires any facility with potential emissions of greenhouse gases (GHGs) of 100 tons per year (tpy) or more on a mass basis, total and 100,000 tpy or more on a carbon dioxide equivalents (CO₂e) basis, total to apply for a Title V permit. Roswell Park Cancer Institute (RPCI) generates GHGs through the combustion of fossil fuels in boilers and generators onsite. An emissions inventory of the RPCI campus revealed that the campus has potential emissions of GHGs on a mass basis and CO₂e that exceeds the major source thresholds. To avoid the requirements of 6NYCRR201-6: Title V, RPCI has chosen to limit CO₂e emissions to less than 100,000 tons per year.

CO₂e emissions are determined by multiplying each of the GHGs by their respective global warming potential. The individual monthly CO₂e emissions shall be determined using default GHG emission factors, fuel Higher Heating Values (HHVs) and current GHG global warming potentials specified in 40CFR98, Subpart A and Subpart C or §231-13.9 Table 9 - Global Warming Potential Values for calculating CO₂e equivalents. Fuel consumption (natural gas and diesel/#2 fuel oil) throughout the RPCI campus shall be used with the following calculations to demonstrate compliance with the federally enforceable CO₂e emissions CAP on a 12-month rolling total basis.

A + B < 99,000 tpy of CO₂e (12-month rolling total basis)
where:

A = CO₂e emissions (tons/mo) from natural gas combustion,
rolled monthly with previous 11 months:

A = (scf natural gas burned/mo) × (0.001028 mmBtu/scf) ×



$(0.0011024 \text{ tons/kg}) \times$
 $\{[(53.02 \text{ kg CO}_2/\text{mmBtu}) \times 1] + [(0.001 \text{ kg CH}_4/\text{mmBtu}) \times 21^*]\}$
 $+ [(0.0001 \text{ kg N}_2\text{O}/\text{mmBtu}) \times 310^*]$
 $A = (\text{scf natural gas burned}/\text{mo}) \times (6.014 \text{ E-}05 \text{ tons CO}_2\text{e}/\text{scf})$

$B = \text{CO}_2\text{e emissions (tons/mo) from No. 2/diesel oil combustion, rolled monthly with previous 11 months:}$
 $B = (\text{gallons of No. 2/diesel oil burned}/\text{mo}) \times (0.138 \text{ mmBtu}/\text{gal}) \times (0.0011024 \text{ tons}/\text{kg}) \times$
 $\{[(73.96 \text{ kg CO}_2/\text{mmBtu}) \times 1] + [(0.003 \text{ kg CH}_4/\text{mmBtu}) \times 21^*]\}$
 $+ [(0.0006 \text{ kg N}_2\text{O}/\text{mmBtu}) \times 310^*]$
 $B = (\text{gallons of No. 2/diesel oil burned}/\text{mo}) \times (0.0113 \text{ tons CO}_2\text{e}/\text{gal})$

*RPCI must use current GHG global warming potential values when calculating CO₂e

Each calendar month, the 12-month rolling total for CO₂e emissions shall be computed by adding the current monthly CO₂e emissions to the CO₂e emissions for the previous 11 months. RPCI shall maintain records of the quantity of each fuel burned facility-wide each month and corresponding CO₂e emissions calculations. Fuel usage records shall be based on verifiable data such as fuel metering data and/or fuel purchase records from fuel suppliers to confirm the general accuracy of the monthly fuel usage amounts.

RPCI shall submit to the Regional Office of the Department, an annual CO₂e emissions report which certifies that the Facility has been operated within the limits imposed by the Title V emissions cap. The report shall list the types and monthly quantity of fuels burned, how the quantity of fuel used was determined (fuel metering, purchase records, etc.), the monthly CO₂e emissions for each fuel type, the total monthly CO₂e emissions (all fuel types), the 12-month rolling total CO₂e emissions for each consecutive month of the calendar year and a comparison to the 99,000 tpy limit. Formulas and/or calculations used to verify compliance with this limit shall be included in the Capping Certification Report for each fuel. The annual report shall be submitted on or before January 30th each year for emissions that occurred in the previous calendar year.

RPCI shall maintain all records (fuel usage, emissions calculations, etc.) onsite for a minimum of five (5) years. These records shall be orderly, easily accessed and available for review by NYSDEC representatives upon request.

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Any noncompliance with the CO₂e emission limit shall be reported to the Department within 30 days of occurrence. Any permit noncompliance constitutes a violation of Title V and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

All submittals to the Department shall be certified by RPCI's responsible official as to the truth, completeness, and accuracy of all information recorded and reported.

Process Material: FUEL CONSUMPTION
Parameter Monitored: CARBON DIOXIDE EQUIVALENTS
Upper Permit Limit: 99000 tons per year
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 12 calendar month(s).

Condition 7: Air pollution prohibited
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR 211.1

Item 7.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 8: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR 211.1

Item 8.1:

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

Emission Unit: U-00001

Process: SAN

Emission Source: SAN-1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC



Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 6NYCRR211.1, "Air Pollution Prohibited", if emissions generated by the sterilization of medical and laboratory waste in the San-I-Pak autoclave become a nuisance, RPCI shall install control equipment, such as carbon filters, to mitigate odors. Any complaints received by RPCI regarding direct or fugitive emissions to the ambient air from the San-I-Pak autoclave or its effluent shall be recorded in a permanently bound logbook and reported to the NYSDEC within 2 calendar days of occurrence. The cause of the problem shall be investigated and corrective action taken immediately. Details shall be provided to the NYSDEC in a written report within 30 days of the complaint.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 9: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:6 NYCRR 225-1.2

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014 (see 6NYCRR225-1.2(g)) and are limited to the firing of distillate oil including number two heating oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016 (see 6NYCRR225-1.2(h)).

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. Compliance with this limit may be based on vendor certifications prepared in accordance with 6NYCRR225-1.6(b) as follows: (i) fuel analyses and data on the quantities of all oil received; and (ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil sold. Such fuel analyses of distillate oil must contain, at a minimum, data on the sulfur content, specific gravity, and heating value of distillate oil. Sampling, compositing, and analysis of fuel samples must be done in accordance with methods acceptable to the department.

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 by the Department.

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.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 10: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 10.1:
The Compliance Demonstration activity will be performed for the Facility.



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

Item 10.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a stationary combustion installation shall emit greater than 20 percent opacity (on a six minute block period) except for one six minute block period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Operators of oil-fired stationary combustion installations, that are not exempt from permitting requirements and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack(s) or vent(s) once per day for visible emissions, when firing oil. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).
- 2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack: the date, time of day, weather conditions, observer's name, and whether a plume was observed. Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry and shall be available for inspection by USEPA and/or Department representatives upon request.
- 3) If the operator observes any visible emissions (other than steam - see below) during two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. EPA Visible Emission Observation Form 1 must be completed in accordance with USEPA Method 9 and the results of the Method 9 analysis recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon



notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Compliance with this requirement during the operation of the boilers on No 2 fuel oil will also verify compliance with 40CFR60.43c(c), which specifies an equivalent opacity limit.

At all times stationary combustion installations shall be operated and maintained according to manufacturer's specifications to ensure proper performance and compliance with the regulatory limit for opacity. Facility records, including those demonstrating hours of operation, fuel usage, monitoring/observations, stack testing, corrective actions taken, manufacturer's maintenance requirements and procedures and maintenance performed for these sources, shall be maintained on-site for five years and be readily available to NYSDEC representatives upon request.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 11: Applicability of Subpart A General Provisions
Effective between the dates of 06/12/2015 and 06/11/2025**

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 11.1:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

**Condition 12: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025**



Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 12.1:

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

Emission Unit: U-00001
Process: CIN

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

40CFR60, Subpart IIII applies to owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 and are not fire pumps. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator. RPCI operates two diesel-fired, CI ICE as emergency generators, Emission Sources CINL1 and CINL2, that are subject to 40CFR60, Subpart IIII requirements. These engines are operated in an emergency demand response program (EDRP) and are subject to the applicable requirements specified under 40CFR60, Subpart IIII for emergency stationary CI ICE. In accordance with 40CFR60.4219, emergency stationary ICE means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition, as follows.

(1) The stationary ICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc.

(2) The stationary ICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in §60.4211(f).

(3) The stationary ICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in §60.4211(f)(2)(ii) or (iii) and §60.4211(f)(3)(i).

All emergency stationary ICE must comply with the requirements specified in §60.4211(f) in order to be considered emergency stationary ICE. If the engine does



not comply with the requirements specified in §60.4211(f), then it is not considered to be an emergency stationary ICE under this subpart and must meet all requirements for non-emergency engines.

RPCI is responsible for complying with all applicable technical, administrative and reporting requirements specified in 40 CFR 60 Subpart III and in this ASF permit. ES CINL1 and ES CINL2 must comply with the labeling requirements specified in §60.4210(f). RPCI shall maintain a table that contains the following information for each engine: make, model number and serial number, maximum power ratings (apparent (kVA) and real (kW)), horsepower, maximum speed (RPM), date of manufacture/engine order date/date of installation (MM/DD/YYYY), displacement (L), number of cylinders, displacement per cylinder (liters/cylinder), maximum fuel consumption (100% load), maximum heat input (MMBTU/hr), emission factors from manufacturer, if available, or AP-42 emission factors for NO_x, CO, VOCs, PM-10, and SO₂, the location of each engine (Building Name/#). In addition, RPCI shall maintain a location map showing all of the engines.

All records required to verify compliance with 40CFR60 Subpart III and supporting documentation shall be maintained onsite for a minimum of 5 years. All records shall be well organized and readily available for review by NYSDEC and/or USEPA upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 13: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 60.4205, NSPS Subpart III

Item 13.1:

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

Emission Unit: U-00001
Process: CIN

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:



(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants specified in 40 CFR 89.112 and 40 CFR 89.113, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and having it installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Compliance with this requirement shall be demonstrated upon start-up through the methods provided in 60.4211(a) and 60.4211(c). Compliance will be verified through record keeping, including the Operation & Maintenance manual, documentation of the completion of the manufacturer's recommended maintenance activities, repairs, purchase records, service contracts/records and a copy of the EPA Certificate of Conformity with the Clean Air Act of 1990 for each engine subject to these requirements. All records shall be maintained onsite for at least 5 years and shall be readily available upon request by NYSDEC and/or USEPA representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 14: Duration of emission standards for new stationary compression ignition IC engines
Effective between the dates of 06/12/2015 and 06/11/2025**

Applicable Federal Requirement:40CFR 60.4206, NSPS Subpart IIII

Item 14.1:

This Condition applies to:

Emission Unit: U00001

Process: CIN

Emission Source: CINL1

Emission Unit: U00001

Process: CIN

Emission Source: CINL2

Item 14.2:

Owners and operators of stationary combustion ignition internal combustion engine (CI ICE)



must operate and maintain the stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

Condition 15: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.4207(b), NSPS Subpart III

Item 15.1:

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

Emission Unit: U-00001
Process: CIN

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

In accordance with 40CFR80.510(b), except as otherwise specifically provided in 40CFR80, Subpart I, all non-road diesel fuel is subject to the following per-gallon standards:

- (1) Sulfur content.
 - (i) 15 ppm maximum for NR diesel fuel.
- (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

To demonstrate compliance, the facility shall obtain from the fuel supplier a certification that verifies that each batch of fuel delivered for use in the emergency generator engines meets the requirements of §80.510(b) and the sampling and testing requirements of 40CFR80, Subpart A and 40CFR80.585, respectively. All records shall be

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maintained onsite for 5 years and shall be readily available for review by NYSDEC and/or USEPA representatives upon request.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 15 parts per million by weight
Reference Test Method: Test Method Approved under § 80.585.
Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 16: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.4208, NSPS Subpart IIII

Item 16.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001
Process: CIN Emission Source: CINL1
Emission Unit: U-00001
Process: CIN Emission Source: CINL2

Item 16.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Owners or operators are subject to the following deadlines for importing or installing stationary compression ignition internal combustion engines (CI-ICE) produced in the previous model year:

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model



year engines.

(h) In addition to the requirements specified in 40 CFR 60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import a stationary CI ICE with a displacement of less than 30 liters per cylinder that does not meet the applicable requirements specified in paragraphs (a) through (g) above after the dates specified in those paragraphs.

(i) The deadlines listed above do not apply to owners or operators of a stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 17: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 60.4209(a), NSPS Subpart III

Item 17.1:

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

Emission Unit: U-00001
Process: CIN

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you are an owner or operator of an emergency stationary compression ignition IC engine, you must install and maintain a non-resettable hour meter prior to startup to monitor engine usage. In addition, you must meet the monitoring requirements specified in §60.4211.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 18: Compliance Demonstration



Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.4211(a), NSPS Subpart III

Item 18.1:

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

Emission Unit: U-00001

Process: CIN

Item 18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

60.4211(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

Operation and maintenance records showing completion of manufacturer's recommended maintenance activities shall be maintained onsite with all supporting documentation that verifies compliance with these requirements. A copy of the Operation & Maintenance manual for each engine shall be kept onsite and be readily available for review by NYSDEC and/or USEPA representatives upon request.

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 1/30/2016.

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

Condition 19: Compliance Demonstration

Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.4211(c), NSPS Subpart III

Item 19.1:

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



Emission Unit: U-00001
Process: CIN

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Owners or operators of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power.

The engine must be installed and configured according to the manufacturer's specifications.

The manufacturer's certification of compliance with the emission standards specified in 40 CFR 60 Subpart III for major pollutants will be sent to the Department prior to commencement of operation of the engines. The EPA Certificate of Conformity with the Clean Air Act of 1990 shall be maintained onsite for each engine and shall be readily available upon request by a NYSDEC and/or USEPA representative.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 20: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 60.4211(f), NSPS Subpart III

Item 20.1:

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

Emission Unit: U-00001
Process: CIN

Item 20.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

(ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.



(iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

RPCI shall maintain records of the hours of operation and associated type of engine operation (i.e., maintenance checks and readiness testing, emergency situations, non-emergency operation) for the emergency generator engines. Documentation of the hours of operation, including the time spent at idle, maintenance checks,



readiness testing, and all emergency & non-emergency situations, shall be maintained onsite in hard copy or electronic form if kept on a secure server. Records shall be kept for at least 5 years and shall be readily available upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 21: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 60.4211(g), NSPS Subpart IIII

Item 21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

(3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



Condition 22: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 60.4214, NSPS Subpart IIII

Item 22.1:

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

Emission Unit: U-00001
Process: CIN

Item 22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the nonresettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(d) If you own or operate an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §60.4211(f)(2)(ii) and (iii) or that operates for the purposes specified in §60.4211(f)(3)(i), you must submit an annual report according to the requirements in paragraphs (d)(1) through (3) of this section.

(1) The report must contain the following information:

- (i) Company name and address where the engine is located.
- (ii) Date of the report and beginning and ending dates of the reporting period.
- (iii) Engine site rating and model year.
- (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (v) Hours operated for the purposes specified in §60.4211(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(2)(ii) and (iii).
- (vi) Number of hours the engine is contractually obligated



to be available for the purposes specified in §60.4211(f)(2)(ii) and (iii).
(vii) Hours spent for operation for the purposes specified in §60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

RPCI shall submit an annual report containing the required information no later than March 31 following each calendar year beginning March 31, 2016. A copy of these reports and all supporting documentation shall be maintained onsite for at least 5 years and shall be easily accessed upon request by NYSDEC and/or USEPA representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

The initial report is due 3/30/2016.

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

Condition 23: General Provisions
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.4218, NSPS Subpart III

Item 23.1:

This Condition applies to:

Emission Unit: U00001
Process: CIN

Item 23.2:

Table 8 of Subpart III shows which parts of the general provisions in §§60.1-60.19 (Subpart A)



apply to any facility that is subject to 40 CFR 60, Subpart IIII.

Condition 24: General Provisions
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63, Subpart A

Item 24.1:

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

Condition 25: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 25.1:

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

Emission Unit: U-00001
Process: CIE

Item 25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand. A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE as defined in 40CFR63.2 before June 12, 2006.

RPCI, an area source of HAP emissions, operates eleven existing diesel-fired, combustion ignition (CI) RICE as emergency generators that were manufactured prior to June 12, 2006. These engines include Emission Sources CIEL1, CIEL2, CIEL3, CIEL4, CIEL5, CIEL6, CIEL7, CIEL8, CIEL9,



CIELA and CIES1. These engines are operated in an emergency demand response program (EDRP) and are subject to the applicable requirements specified under 40CFR63, Subpart ZZZZ for emergency stationary CI RICE. In accordance with 40CFR63.6675, emergency stationary RICE means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition.

(1) The stationary RICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc.

(2) The stationary RICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in §63.6640(f).

(3) The stationary RICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in §63.6640(f)(2)(ii) or (iii) and §63.6640(f)(4)(i) or (ii).

All emergency stationary RICE must comply with the requirements specified in §63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in §63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

RPCI is responsible for complying with all applicable technical, administrative and reporting requirements specified in 40 CFR 63 Subpart ZZZZ and in this ASF permit. RPCI shall maintain a table that contains the following information for each engine: make, model number and serial number, maximum power ratings (apparent (kVA) and real (kW)), horsepower, maximum speed (RPM), date of manufacture (MM/DD/YYYY), date of installation (MM/DD/YYYY), displacement (L), number of cylinders, displacement per cylinder (liters/cylinder), maximum fuel consumption (100% load), maximum heat input (MMBTU/hr), emission factors from manufacturer, if available, or AP-42 emission factors for NO_x, CO, VOCs, PM-10, and SO₂, the location of each engine (Building Name/#). In addition, RPCI shall maintain a location map showing all of the engines.

All records required to verify compliance with 40CFR63 Subpart ZZZZ and supporting documentation shall be



maintained onsite for a minimum of 5 years. All records shall be well organized and readily available for review by NYSDEC and/or USEPA upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 63.6603(a), Subpart ZZZZ

Item 26.1:

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

Emission Unit: U-00001
Process: CIE

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency and black start compression ignition stationary RICE located at an area source of HAP emissions must comply with the following maintenance procedures specified in Table 2d:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

RPCI shall maintain records of the frequency of completion of required maintenance activities for the existing emergency generator engines. Documentation of oil and oil filter changes; air cleaner inspections and air cleaner replacements; hose and belt inspections and hose and belt replacements must be maintained in a permanent bound logbook or electronically on a secure server, including the activity details, name of person/contractor that carried out the task, parts replaced, repairs made and any other pertinent information that will verify that the engines have been maintained properly. All records that document the purchase of parts, equipment and supplies



used for maintenance activities shall be kept. All records shall be maintained onsite for a minimum of 5 years and must be easily accessible, well organized and available for review when requested by NYSDEC and/or USEPA representatives.

Note:

If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 27: Fuel requirements for existing emergency stationary CI RICE

Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6604, Subpart ZZZZ

Item 27.1:

This Condition applies to:

Emission Unit: U00001

Process: CIE

Item 27.2:

Beginning January 1, 2015, the owner or operator of an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in 40 CFR 63.6640(f)(4)(ii) must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.



Condition 28: Compliance required at all times
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6605(a), Subpart ZZZZ

Item 28.1:

This Condition applies to:

Emission Unit: U00001

Process: CIE

Item 28.2:

Facility must be in compliance with the emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ that apply to them at all times.

Condition 29: Operate and maintain air pollution control and monitoring equipment consistent with good engineering practices
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6605(b), Subpart ZZZZ

Item 29.1:

This Condition applies to:

Emission Unit: U00001

Process: CIE

Item 29.2:

Facility must operate and maintain its stationary RICE, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction.

Condition 30: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6625(e), Subpart ZZZZ

Item 30.1:

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

Emission Unit: U-00001

Process: CIE

Item 30.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you own or operate an existing emergency stationary RICE located at an area source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

RPCI shall maintain a copy of the Operation and Maintenance manual for each emergency generator engine, along with all documentation and records that support completion of the manufacturer's recommended maintenance activities. All records shall be maintained onsite and be easily accessed and readily available for NYSDEC and/or USEPA representatives upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 31: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6625(f), Subpart ZZZZ

Item 31.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: CIE

Item 31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, must install a non-resettable hour meter if one is not already installed.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



Condition 32: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6625(h), Subpart ZZZZ

Item 32.1:

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

Emission Unit: U-00001
Process: CIE

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

To verify compliance with this requirement RPCI shall record of the hours of operation for each emergency generator engine, including the time spent at idle in a permanently bound logbook or electronically on a secure server. These records shall be maintained onsite and shall be easily accessed and readily available to NYSDEC and/or USEPA representatives upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 33: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6625(i), Subpart ZZZZ

Item 33.1:

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

Emission Unit: U-00001
Process: CIE

Item 33.2:



Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to subpart ZZZZ or in items 1 or 4 of Table 2d to subpart ZZZZ has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 34: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 63.6640(a), Subpart ZZZZ

Item 34.1:

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

Emission Unit: U-00001
Process: CIE

Item 34.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart. To demonstrate continuous compliance with the requirement to conduct work or management practices for each existing emergency stationary RICE at an area source of HAP, Table 6 requires that the following be completed:

- i. Operating and maintaining the stationary RICE according to the manufacturer's emission related operation and maintenance instructions; or
- ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

To comply with this requirement RPCI shall maintain a copy of the Operation and Maintenance (O&M) manual for each emergency generator. RPCI shall maintain records to verify completion of the manufacturer's recommended maintenance activities and the requirements in Table 2d of 40CFR63, Subpart ZZZZ for the existing emergency generator engines, including, but not limited to, documentation of oil and oil filter changes; air cleaner inspections, maintenance and replacement; hose and belt inspections/changes; etc. The details of each maintenance activity shall include the name of the personnel/contractor who carried out the task, parts replaced, repairs made and any other pertinent information that will verify that the engines have been maintained properly. All records that document the purchase of parts, equipment and supplies used for maintenance activities shall also be kept. A copy of the O&M manual shall be kept with each generator and documentation of completion of recommended maintenance activities shall be maintained in a permanently bound generator logbook or electronically on a secure server. All records shall be maintained onsite, be well organized and readily available to NYSDEC and/or EPA representatives upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 35: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025



Applicable Federal Requirement:40CFR 63.6640(e), Subpart ZZZZ

Item 35.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 35.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. In accordance with §63.6645(a)(5), existing stationary emergency RICE are not required to comply with the notification requirements specified in 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (e), (g) and (h).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 36: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6640(f), Subpart ZZZZ

Item 36.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: CIE

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this



section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f) (1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.



(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

In accordance with No. 4 of Table 7 to Subpart ZZZZ - Requirements for Reports emergency stationary RICE that operate or are contractually obligated to be available for



more than 15 hours per year for the purposes specified in §63.6640(f)(2) (ii) and (iii) or that operate for the purposes specified in §63.6640(f)(4)(ii) must submit a report annually that contains the information in 40CFR63.6650(h)(1) according to the requirements of 63.6650(h)(2)-(3).

RPCI shall maintain records of the hours of operation and associated type of engine operation (i.e., maintenance checks, readiness testing, emergency situations, non-emergency situations, etc.) for each emergency generator engine. Documentation of the hours of operation, including time spent at idle, shall be maintained in the permanently bound generator logbook or electronically on a secure server. All records shall be readily available upon request by a NYSDEC or EPA representative.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 37: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6650(h), Subpart ZZZZ

Item 37.1:

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

Emission Unit: U-00001
Process: CIE

Item 37.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h).

(1) through (3) of this section.

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

(ii) Date of the report and beginning and ending dates of



- the reporting period.
- (iii) Engine site rating and model year.
 - (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - (v) Hours operated for the purposes specified in §63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(2)(ii) and (iii).
 - (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §63.6640(f)(2)(ii) and (iii).
 - (vii) Hours spent for operation for the purpose specified in §63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
 - (viii) If there were no deviations from the fuel requirements in §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
 - (ix) If there were deviations from the fuel requirements in §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.
- (2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- (3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §63.13 and a copy submitted to NYSDEC Region 9 office.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 38: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 63.6655, Subpart ZZZZ

Item 38.1:

The Compliance Demonstration activity will be performed for the Facility.



Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§63.6655 What records must I keep?

(e)(2) If you own or operate an existing emergency stationary RICE, you must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE.

(f)(2) If you own or operate an existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 39: Compliance Demonstration

Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement: 40CFR 63.6660, Subpart ZZZZ

Item 39.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: CIE

Item 39.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).



As specified in 40 CFR 63.10(b)(1), the owner or operator must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 40: General provisions
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 63.6665, Subpart ZZZZ

Item 40.1:

This Condition applies to:

Emission Unit: U00001
Process: CIE

Item 40.2:

Table 8 of 40 CFR 63 Subpart ZZZZ shows which parts of the General Provisions 40 CFR 63.1 through 40 CFR 63.15 apply to this facility. Facility is responsible for ensuring they comply with all General Provisions contained in Table 8.

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

Condition 41: Applicability of this Subpart to this emission source
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc

Item 41.1:

This Condition applies to:

Emission Unit: U00001 Emission Point: 00001
Process: 001

Emission Unit: U00001 Emission Point: 00001
Process: 005

New York State Department of Environmental Conservation

Permit ID: 9-1402-00406/00007

Facility DEC ID: 9140200406



Item 41.1:

This Condition applies to Emission Unit: U-00001

Item 41.2.3:

This emission source is subject to the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

**Condition 42: Alternative compliance methods for sulfur dioxide.
Effective between the dates of 06/12/2015 and 06/11/2025**

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

Item 42.1:

This Condition applies to Emission Unit: U-00001
Process: 005

Item 42.2:

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 43: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025**

Applicable Federal Requirement:40CFR 60.45c(a), NSPS Subpart Dc

Item 43.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
Process: 005

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

Item 43.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

(a) The owner or operator of an affected facility subject to the opacity standard under §60.43c shall conduct an initial performance test as required under §60.8, and shall conduct subsequent performance tests as requested by



the Administrator, to determine compliance with the standard. Reference Method 9 (6-minute average of 24 observations) of Appendix A-4 of this part shall be used for determining the opacity of stack emissions.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 44: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 44.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 005

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 44.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(e) 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 and submit reports as required under paragraph (d) of this section, including the following information, as applicable.

(1) Calendar dates covered in the reporting period.

(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), (3) or (4) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include the fuel oil delivery dates, quantity of fuel oil delivered, the quantity of fuel oil combusted in each affected facility and 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

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combusted during 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 7/30/2015.

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

Condition 45: Emissions monitoring

Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.47c(c), NSPS Subpart Dc

Item 45.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001

Item 45.2: Affected facilities that burn only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.06 lb/MMBtu) heat input or less and that do not use a post-combustion technology to reduce SO₂ or PM emissions are not required to operate a CEMS for measuring opacity if they follow the applicable procedures under 40 CFR 60.48c(f).

Condition 46: Reporting period

Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 46.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001

Item 46.2: The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period

Condition 47: Compliance Demonstration

Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 47.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: 005

Item 47.2:

Compliance Demonstration shall include the following monitoring:

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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: 0.50 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED MORE THAN ONCE PER CALENDAR YEAR

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

**Condition 48: Exemption from the averaging period.
Effective between the dates of 06/12/2015 and 06/11/2025**

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

Item 48.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: 005

Item 48.2:

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 49: Enforceability
Effective between the dates of 06/12/2015 and 06/11/2025**

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

Item 49.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: 005

Item 49.2:

The sulfur dioxide emission limits, percentage reductions, and fuel oil sulfur limitations shall apply at all times, including periods of startup, shutdown, and malfunction.

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Condition 50: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc

Item 50.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: 005

Item 50.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood or oil and has a heat input capacity of 30 million BTU per hour or greater shall cause to be discharged into the atmosphere from an affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

Condition 51: Enforceability of particulate matter and opacity standards.
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.43c(d), NSPS Subpart Dc

Item 51.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001

Process: 005

Item 51.2:

The particulate matter and opacity standards of section 40 CFR 60-Dc.43c apply at all times, except during periods of startup, shutdown, and malfunction.



Condition 52: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable Federal Requirement:40CFR 60.47c(f), NSPS Subpart Dc

Item 52.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: 005

Item 52.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

- (f) An owner or operator of an affected facility that is subject to an opacity standard in §60.43c(c) is not required to operate a COMS provided that the affected facility meets the conditions in either paragraphs (f)(1), (2), or (3) of this section.
- (3) The affected facility burns only gaseous fuels and/or fuel oils that contain no greater than 0.5 weight percent sulfur, and the owner or operator operates the unit according to a written site-specific monitoring plan approved by the permitting authority. This monitoring plan must include procedures and criteria for establishing and monitoring specific parameters for the affected facility indicative of compliance with the opacity standard. For testing performed as part of this site-specific monitoring plan, the permitting authority may require as an alternative to the notification and reporting requirements specified in §§60.8 and 60.11 that the owner or operator submit any deviations with the excess emissions report required under §60.48c(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 53: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 53.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: 005



Item 53.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(b) The owner or operator of each affected facility subject to the SO₂ emission limits of §60.42c, or the PM or opacity limits of §60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B of this part.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 54: Compliance Demonstration

Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 54.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: 005

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 54.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(c) In addition to the applicable requirements in §60.7, the owner or operator of an affected facility subject to the opacity limits in §60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in paragraphs (c)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.

(1) For each performance test conducted using Method 9 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in



paragraphs (c)(1)(i) through (iii) of this section.

(i) Dates and time intervals of all opacity observation periods;

(ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

(iii) Copies of all visible emission observer opacity field data sheets;

(2) For each performance test conducted using Method 22 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(2)(i) through (iv) of this section.

(i) Dates and time intervals of all visible emissions observation periods;

(ii) Name and affiliation for each visible emission observer participating in the performance test;

(iii) Copies of all visible emission observer opacity field data sheets; and

(iv) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.

(3) For each digital opacity compliance system, the owner or operator shall maintain records and submit reports according to the requirements specified in the site-specific monitoring plan approved by the Administrator

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 55: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 55.1:

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The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: 005

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

Item 55.2:

Compliance Demonstration 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.

The initial report is due 7/30/2015.

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

Condition 56: Compliance Demonstration

Effective between the dates of 06/12/2015 and 06/11/2025

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

Item 56.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: 005

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

Item 56.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

- i) The name of the oil supplier, and
- ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate



oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.

iii) The sulfur content or maximum sulfur content of the oil.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 57: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

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

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

Emission Unit: U-00001 Emission Point: 00001
Process: 005

Item 57.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

- (g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
- (2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
- (3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel

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certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

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

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 58: Contaminant List
Effective between the dates of 06/12/2015 and 06/11/2025



Applicable State Requirement:ECL 19-0301

Item 58.1:

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

CAS No: 000630-08-0
Name: CARBON MONOXIDE

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

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

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

CAS No: 0NY750-00-0
Name: CARBON DIOXIDE EQUIVALENTS

CAS No: 0NY998-00-0
Name: VOC

**Condition 59: Malfunctions and start-up/shutdown activities
Effective between the dates of 06/12/2015 and 06/11/2025**

Applicable State Requirement:6 NYCRR 201-1.4

Item 59.1:

(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 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 60: Emission Unit Definition
Effective between the dates of 06/12/2015 and 06/11/2025**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 60.1:

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

Emission Unit: U-00001

Emission Unit Description:

This emission unit contains the nonexempt combustion sources and processes operated throughout the Roswell Park Cancer Institute (RPCI) complex. The combustion sources include three (3) Volcano Model D3-70L boilers in the Power House and thirteen (13) stationary diesel fired compression ignition (CI) reciprocating internal combustion engine (RICE) generators. The Volcano boilers have a maximum design heat input rating of 83 million BTU/hr, each. All of the boilers are dual-fueled, burning natural gas or No. 2 fuel oil and supply heat and operating steam throughout the hospital/research complex. The boilers are equipped with low NOx burners and utilize flue gas recirculation to control NOx emissions, which exhaust to a common stack. The CI RICE generators, located throughout RPCI, are used for emergencies and participation in the New York Independent System Operator (NYISO) demand response program. This emission unit also contains one San-I-Pak sterilizer for treatment of regulated medical waste and soiled animal bedding prior to disposal off-site.

- Building(s): 11
- 29
- 30
- 33
- 4
- 5



51
55
8
9

Condition 61: Renewal deadlines for state facility permits
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 61.1:

The owner or operator of a facility having an issued state facility 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.

Condition 62: Compliance Demonstration
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 62.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 62.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 9
270 Michigan Ave.
Buffalo, NY 14203

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 63: Visible Emissions Limited
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable State Requirement:6 NYCRR 211.2

Item 63.1:

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.

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

Condition 64: Emission Point Definition By Emission Unit
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 64.1:

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

Emission Unit: U-00001

Emission Point: 00001

Height (ft.): 125

Diameter (in.): 96

NYTMN (km.): 4756.7

NYTME (km.): 184.4

Building: 11

Condition 65: Process Definition By Emission Unit
Effective between the dates of 06/12/2015 and 06/11/2025

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 65.1:

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

Emission Unit: U-00001

Process: 001

Source Classification Code: 1-02-006-02

Process Description:

This process consists of the combustion of natural gas in the Power House boilers to produce steam for facility use and heating purposes. LPG is used in small quantities to ignite the boilers. The hourly throughput of natural gas for Boilers 001-1, 001-2 and 001-3 at maximum operating capacity is approximately 0.081 million cubic feet per hour, each. Throughput is based on a heating value of 1020 btu/cu ft for natural gas.

Emission Source/Control: 001-1 - Combustion

Design Capacity: 83 million Btu per hour

Emission Source/Control: 001-2 - Combustion

Design Capacity: 83 million Btu per hour

Emission Source/Control: 001-3 - Combustion

Design Capacity: 83 million Btu per hour

Emission Source/Control: 0C1-1 - Control

Control Type: LOW NOx BURNER

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Emission Source/Control: 0C1-2 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: 0C1-3 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: FGR-1 - Control
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: FGR-2 - Control
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: FGR-3 - Control
Control Type: FLUE GAS RECIRCULATION

Item 65.2:

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

Emission Unit: U-00001

Process: 005

Source Classification Code: 1-02-005-02

Process Description:

This process consists of the combustion of No. 2 fuel oil (back-up fuel) in Power House boilers to produce steam for facility use and heating purposes. LPG is used in small quantities to ignite the boilers. The hourly throughput of No. 2 oil for Boilers 001-1, 001-2 and 001-3 at maximum operating capacity is approximately 593 gallons per hour, each. Hourly throughput is based on a heating value of 140,000 btu/gal for No. 2 fuel oil.

Emission Source/Control: 001-1 - Combustion
Design Capacity: 83 million Btu per hour

Emission Source/Control: 001-2 - Combustion
Design Capacity: 83 million Btu per hour

Emission Source/Control: 001-3 - Combustion
Design Capacity: 83 million Btu per hour

Emission Source/Control: 0C1-1 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: 0C1-2 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: 0C1-3 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: FGR-1 - Control
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: FGR-2 - Control

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Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: FGR-3 - Control

Control Type: FLUE GAS RECIRCULATION

Item 65.3:

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

Emission Unit: U-00001

Process: CIE

Source Classification Code: 2-01-001-02

Process Description:

This process is the operation of the existing compression ignition (CI) reciprocating internal combustion engines (RICE) with diesel oil for emergency demand response.

Emission Source/Control: CIEL1 - Combustion

Design Capacity: 2,220 horsepower (mechanical)

Emission Source/Control: CIEL2 - Combustion

Design Capacity: 896 horsepower (mechanical)

Emission Source/Control: CIEL3 - Combustion

Design Capacity: 2,220 horsepower (mechanical)

Emission Source/Control: CIEL4 - Combustion

Design Capacity: 518 horsepower (mechanical)

Emission Source/Control: CIEL5 - Combustion

Design Capacity: 1,635 horsepower (mechanical)

Emission Source/Control: CIEL6 - Combustion

Design Capacity: 1,490 horsepower (mechanical)

Emission Source/Control: CIEL7 - Combustion

Design Capacity: 1,850 horsepower (mechanical)

Emission Source/Control: CIEL8 - Combustion

Design Capacity: 1,620 horsepower (mechanical)

Emission Source/Control: CIEL9 - Combustion

Design Capacity: 1,850 horsepower (mechanical)

Emission Source/Control: CIELA - Combustion

Design Capacity: 1,850 horsepower (mechanical)

Emission Source/Control: CIES1 - Combustion

Design Capacity: 277 horsepower (mechanical)

Item 65.4:

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

Emission Unit: U-00001



Process: CIN Source Classification Code: 2-01-001-02

Process Description:

This process is the operation of new (installed during or after 2006) compression ignition (CI) reciprocating internal combustion engines (RICE) with diesel oil for emergency demand response.

Emission Source/Control: CINL1 - Combustion
Design Capacity: 1,141 horsepower (mechanical)

Emission Source/Control: CINL2 - Combustion
Design Capacity: 2,937 horsepower (mechanical)

Item 65.5:

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

Emission Unit: U-00001

Process: SAN Source Classification Code: 3-15-020-0A

Process Description:

This process consists of the operation of one San-I-Pak sterilizer, using steam generated by the Powerhouse boilers. Regulated medical waste, which until April of 2004 was disposed offsite, is sterilized on-site via the San-I-Pak autoclave. Soiled animal bedding, which is not contaminated with chemotherapeutic drugs, is also treated in the autoclave. The sterilized solid waste is disposed of in a landfill offsite.

Emission Source/Control: SAN-1 - Process
Design Capacity: 320 pounds per hour

