



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-1402-00406/00007
Mod 0 Effective Date: 11/07/2005 Expiration Date: No expiration date.
Mod 1 Effective Date: 07/10/2009 Expiration Date: No expiration date.

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: ANTHONY PUTRELO
ROSWELL PARK CANCER INSTITUTE
ELM & CARLTON STS
BUFFALO, NY 14263
(716) 845-5758

Description:

ROSWELL PARK CANCER INSTITUTE

The Roswell Park Cancer Institute (RPCI) is a cancer treatment and research center located on Carlton and Elm Streets in Buffalo, New York in a marginal ozone nonattainment area. 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 combustion installations, such as boilers, emergency generators, and small natural gas boilers, which supply heat and process operating steam throughout RPCI's hospital/research complex. The Standard Industrial Classification (SIC) Code for this facility is 8069- Specialty Hospitals, Except Psychiatric.

This minor permit modification is for the elimination of the use of the data acquisition and handling system associated with the Autoflame Combustion Management System (Autoflame) listed in the capping conditions as a method to verify compliance with the 99 tpy emission limits for NO_x, CO and SO₂. This system never operated properly and is unreliable. Instead, RPCI will revert back to the method used in their previous permit based on emission factors and fuel usage. Other changes made to the permit include updating the fuel



monitoring requirement under 40CFR60, Subpart Dc for the Powerhouse Boilers and revising the emission unit description.

RPCI must operate the four mid-size Power House boilers (Emission Sources (ES) 001-1, 001-2, 001-3 and 001-4), equipped with low NO_x burners (Emission Source Controls 0C1-1, 0C1-2, 0C1-3 and 0C1-4, respectively) and flue gas re-circulation (Emission Source Controls FGR-1, FGR-2, FGR-3 and FGR-4, respectively) and 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 boilers can be fired with either natural gas (Process 001) or No. 2 fuel oil (Process 005) and are contained in Emission Unit (EU) U-00001, which exhausts to the atmosphere through Emission Point (EP) 00001. RPCI also operates thirteen emergency generators (10 large (> 600 hp, each) and 3 small (≤ 600 hp, each)) and seven natural gas boilers, which are exempt from permitting but must be included in the determination of RPCI's total actual emissions to verify compliance with the emission CAPs for NO_x, CO and SO₂. The mid-size boilers are subject to the requirements of 6NYCRR227-1, Stationary Combustion Installations, 40CFR60, Subpart A—General Provisions and 40CFR60, Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The emergency generators are subject to 6NYCRR225-1, Fuel Composition and Use-Sulfur Limitations. The autoclave is subject to the requirements of 6NYCRR211.2 -Air Pollution Prohibited.

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

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:

DOUGLAS E BORSCHEL
270 MICHIGAN AVE
BUFFALO, NY 14203-2999



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
 - Applications for Permit Renewals and Modifications
 - Permit modifications, suspensions or revocations by the Department
 - Permit modifications, suspensions or revocations by the Department
 - Permit Modifications, Suspensions and Revocations by the Department

Facility Level

- Submission of Applications for Permit Modification or Renewal -REGION 9 HEADQUARTERS
- 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 1-1: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6NYCRR 621.11

Item 1-1.1:

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 1-1.2:

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 1-1.3:

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 3: Applications for Permit Renewals and Modifications



Applicable State Requirement: 6NYCRR 621.13

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 1-2: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6NYCRR 621.13

Item 1-2.1:

The Department reserves the right 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.

Condition 1-3: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6NYCRR 621.13

Item 1-3.1:

The Department reserves the right 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.



Condition 4: Permit Modifications, Suspensions and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

Item 4.1:

The Department reserves the right 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 Applications for Permit Modification or Renewal -REGION 9 HEADQUARTERS

Applicable State Requirement: 6NYCRR 621.5(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 14203-2999
(716) 851-7165

Condition 1-4: Submission of application for permit modification or renewal-REGION 9

HEADQUARTERS
Applicable State Requirement: 6NYCRR 621.6(a)

Item 1-4.1:

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



Permit Under the Environmental Conservation Law (ECL)

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

IDENTIFICATION INFORMATION

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

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

Mod 0 Permit Effective Date: 11/07/2005
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 07/10/2009
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6NYCRR 200.3: False statement
- 1-1 6NYCRR 201-3.2(c)(6): Compliance Demonstration
- 1-2 6NYCRR 201-7: Facility Permissible Emissions
- *1-3 6NYCRR 201-7: Capping Monitoring Condition
- *1-4 6NYCRR 201-7: Capping Monitoring Condition
- *1-5 6NYCRR 201-7: Capping Monitoring Condition
- 1-6 6NYCRR 225-1.2(a)(2): Compliance Demonstration
- 1-7 6NYCRR 225-1.8(a): Compliance Demonstration
- 1-8 6NYCRR 227-1.3: Compliance Demonstration
- 3 40CFR 82.154, Subpart F: Class I/II recycling and emissions reduction

Emission Unit Level

EU=U-00001

- 4 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 5 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 7 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 9 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 10 40CFR 60.12, NSPS Subpart A: Circumvention.
- 11 40CFR 60.14, NSPS Subpart A: Modifications.
- 12 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source
- 1-9 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration
- 1-10 40CFR 60.48c(j), NSPS Subpart Dc: Reporting period

EU=U-00001,Proc=005

- 18 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Demonstration
- 19 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.
- 20 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability.
- 21 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration
- 22 40CFR 60.43c(d), NSPS Subpart Dc: Enforceability of particulate matter and opacity standards.
- 23 40CFR 60.44c(h), NSPS Subpart Dc: Alternative compliance methods for sulfur dioxide.
- 1-11 40CFR 60.45c(a), NSPS Subpart Dc: Compliance Demonstration
- 26 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Demonstration
- 1-12 40CFR 60.48c(e), NSPS Subpart Dc: Compliance Demonstration
- 1-13 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 32 ECL 19-0301: Contaminant List
- 1-14 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 33 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 34 6NYCRR 201-5: Emission Unit Definition
- 1-15 6NYCRR 211.2: Air pollution prohibited
- 41 6NYCRR 211.2: Air pollution prohibited



Emission Unit Level

42 6NYCRR 201-5: Emission Point Definition By Emission Unit

43 6NYCRR 201-5: Process Definition By Emission Unit

EU=U-00001,Proc=SAN

1-16 6NYCRR 211.2: Compliance Demonstration

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 - 6NYCRR Part 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 - 6NYCRR Part 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 - 6NYCRR Part 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 - 6NYCRR Part 201-1.2

If an existing emission source was subject to the permitting requirements of 6NYCRR 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 - 6NYCRR Part 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 - 6NYCRR Part 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 - 6NYCRR Part 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 Part 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 Part 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 Part 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 6NYCRR Part 202-1.

Item K: Visible Emissions Limited - 6 NYCRR Part 211.3

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.

Item L: Open Fires - 6 NYCRR Part 215

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Item M: 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 N: 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 11/07/2005 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 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 1-1: Compliance Demonstration
Effective between the dates of 07/10/2009 and Permit Expiration Date

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

Item 1-1.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

RPCI operates thirteen (13) emergency generators fired with No. 2 fuel oil. These generators are considered exempt sources if utilized for emergencies only, including times when the usual sources of heat, power, water and lighting are temporarily unobtainable, or to provide power to fire-fighting equipment. As proof of exempt eligibility for the emergency generators, the facility shall maintain monthly records which demonstrate that each engine is operated less than 500 hours per year, on a 12-month rolling total basis. An hour counter or similar device shall be utilized to monitor hours of operation, which shall be recorded in a bound log book each month. The emergency generators shall be operated and maintained according to manufacturer's specifications to ensure proper performance. Records demonstrating hours of operation, fuel usage/purchases for emergency generators, the manufacturer's maintenance requirements and the maintenance performed on the emergency generators shall be kept on-site for five years and be readily available to NYSDEC representatives upon request.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 499 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)



Reports due 30 days after the reporting period.
The initial report is due 1/30/2010.
Subsequent reports are due every 12 calendar month(s).

Condition 1-2: Facility Permissible Emissions
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7

Item 1-2.1:

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:

per year	CAS No: 000630-08-0 (From Mod 1)	PTE: 198,000 pounds
	Name: CARBON MONOXIDE	
per year	CAS No: 007446-09-5 (From Mod 1)	PTE: 198,000 pounds
	Name: SULFUR DIOXIDE	
per year	CAS No: 0NY210-00-0 (From Mod 1)	PTE: 198,000 pounds
	Name: OXIDES OF NITROGEN	

Condition 1-3: Capping Monitoring Condition
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7

Item 1-3.1:

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:

- 6NYCRR 201-6
- 6NYCRR 227-2
- 6NYCRR 231-2

Item 1-3.2:

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

Item 1-3.3:

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 1-3.4:

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 1-3.5:

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 1-3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 1-3.7:

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 more than 250 million British thermal units per hour (MMBTU/hr) heat input at the Power House and exempt combustion sources throughout the hospital campus with a facility wide annual potential to emit (PTE) more than 172 tons of oxides of nitrogen (NO_x). The PTE NO_x 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 231-2, "New Source Review (NSR)". 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 four dual fueled stationary combustion installations (boilers), three with 83 MMBTU/hr maximum design heat input capacity each, identified as Emission Sources (ES) 001-1, 001-2 and 001-3 and one with 64 MMBTU/hr maximum design heat input capacity identified as ES 001-4. 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. The boilers are contained in Emission Unit U-00001. Exempt combustion sources throughout the campus, including but not limited to, thirteen emergency



generators and 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:

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

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.

$$A = (102 \text{ lbs NO}_x^* / 10^6 \text{ scf}) \times (\text{cf natural gas burned/month}) \times (\text{ton}/2000 \text{ lb})$$

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 ES 001-4 and small natural gas boilers (max heat input less than 10 MMBTU/hr).

$$C = (100 \text{ lbs NO}_x^{**} / 10^6 \text{ scf}) \times (\text{cf natural gas burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

D = Monthly NO_x emission rate in tons based on No. 2 oil usage for ES 001-4.

$$D = (0.02 \text{ lbs NO}_x^{**} / \text{gal No. 2 oil}) \times (\text{gallons No. 2 oil burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

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

$$E = (4.41 \text{ lbs NO}_x^{**} / \text{MMBTU}) \times (0.14 \text{ MMBTU}/\text{gal fuel}) \times (\text{gallons fuel burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

F = 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).

$$F = (3.2 \text{ lbs NO}_x^{**} / \text{MMBTU}) \times (0.14 \text{ MMBTU}/\text{gal fuel}) \times (\text{gallons fuel burned/month}) \times (\text{ton}/2000 \text{ lb}).$$

*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.

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 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 1/30/2010.
Subsequent reports are due every 12 calendar month(s).

Condition 1-4: Capping Monitoring Condition
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7

Item 1-4.1:

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:

6NYCRR 201-6
40CFR 52-A.21

Item 1-4.2:

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

Item 1-4.3:

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 1-4.4:

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 1-4.5:

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 1-4.6:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 1-4.7:

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 more than 250 million British thermal units per hour (MMBTU/hr) heat input at the Power House and exempt combustion sources throughout the hospital campus with a facility wide annual potential to emit (PTE) more than 695 tons of sulfur dioxide (SO₂). The PTE SO₂ exceeds the major source applicability threshold of 100 tpy specified under 6NYCRR Subpart 201-6, "Title V Facility Permits" and 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 four dual fueled stationary combustion installations (boilers), three with 83 MMBTU/hr maximum design heat input capacity each, identified as Emission Sources (ES) 001-1, 001-2 and 001-3 and one with 64 MMBTU/hr maximum design heat input capacity identified as ES 001-4. 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. Exempt combustion sources throughout the campus, including but not limited to, thirteen emergency generators and 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, ES 001-3 and ES 001-4 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, ES 001-3 and ES 001-4.

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

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.

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

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).

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

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 1/30/2010.
Subsequent reports are due every 12 calendar month(s).

Condition 1-5: Capping Monitoring Condition
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7

Item 1-5.1:

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:

6NYCRR 201-6
40CFR 52-A.21

Item 1-5.2:

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

Item 1-5.3:

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 1-5.4:

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 1-5.5:

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 1-5.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 1-5.7:

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 more than 250 million British thermal units per hour (MMBTU/hr) heat input and exempt combustion sources throughout the hospital campus with a facility wide annual potential to emit (PTE) more than 215 tons of carbon monoxide (CO). The PTE of CO exceeds the major source applicability threshold of 100 tpy for 6NYCRR Subpart 201-6, "Title V Facility Permits" and 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 CO to 99 tons per year.
2. The emission sources contributing to the facility NO_x emissions include four dual fueled stationary combustion installations (boilers), three with 83 MMBTU/hr maximum design heat input capacity each, identified as Emission Sources (ES) 001-1, 001-2 and 001-3 and one with 64 MMBTU/hr maximum design heat input capacity identified as ES 001-4. 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. Exempt combustion sources throughout the campus, including but not limited to, thirteen emergency generators and 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, ES 001-3 and ES 001-4.

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

B = CO emission rate in tons for a specified time period based on No. 2 oil usage for ES 001-1, ES 001-2, ES 001-3 and ES 001-4.

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

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).

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

*Emission factor is performance guarantee extended from 25% to 100% boiler load for the TODD Combustion Variflame burner, Model V5451GOXXX (Boilers ES 001-1, ES 001-2, and ES 001-3) and for the TODD Combustion Variflame burner, Model V505IGOXXX (Boiler ES 001-4), 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.

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 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 1/30/2010.
Subsequent reports are due every 12 calendar month(s).

Condition 1-6: Compliance Demonstration
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 225-1.2(a)(2)



Item 1-6.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 1-6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any distillate fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.5 percent reduction by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-7: Compliance Demonstration

Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 225-1.8(a)

Item 1-7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum: supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submittal to, NYSDEC upon request.

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



Condition 1-8: Compliance Demonstration
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 227-1.3

Item 1-8.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 1-8.2:

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) 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 3: Class I/II recycling and emissions reduction
Effective between the dates of 11/07/2005 and Permit Expiration Date**

Applicable Federal Requirement:40CFR 82.154, Subpart F



Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 7.1:

This Condition applies to Emission Unit: U-00001

Item 7.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 9: Opacity standard compliance testing.

Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 9.1:

This Condition applies to Emission Unit: U-00001

Item 9.2:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

Condition 10: Circumvention.

Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 10.1:

This Condition applies to Emission Unit: U-00001

Item 10.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 11: Modifications.

Effective between the dates of 11/07/2005 and Permit Expiration Date



Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 11.1:

This Condition applies to Emission Unit: U-00001

Item 11.2:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

**Condition 12: Applicability of this Subpart to this emission source
Effective between the dates of 11/07/2005 and Permit Expiration Date**

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

Item 12.1:

This Condition applies to Emission Unit: U-00001

Item 12.2:

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 1-9: Compliance Demonstration
Effective between the dates of 07/10/2009 and Permit Expiration Date**

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

Item 1-9.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Item 1-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(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 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: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2010.

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

Condition 1-10: Reporting period
Effective between the dates of 07/10/2009 and Permit Expiration Date

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

Item 1-10.1:

This Condition applies to Emission Unit: U-00001

Item 1-10.2: 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 18: Compliance Demonstration
Effective between the dates of 11/07/2005 and Permit Expiration Date

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

Item 18.1:

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 18.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 percent by weight

Monitoring Frequency: PER DELIVERY

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 1/30/2006.

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

Condition 19: Exemption from the averaging period.
Effective between the dates of 11/07/2005 and Permit Expiration Date

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

Item 19.1:

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

Item 19.2:

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 20: Enforceability.
Effective between the dates of 11/07/2005 and Permit Expiration Date

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

Item 20.1:

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

Item 20.2:

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

Condition 21: Compliance Demonstration
Effective between the dates of 11/07/2005 and Permit Expiration Date



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

Item 21.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 005

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 21.2:

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: 20.0 percent

Reference Test Method: Method 9

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2006.

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

Condition 22: Enforceability of particulate matter and opacity standards.

Effective between the dates of 11/07/2005 and Permit Expiration Date

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

Item 22.1:

This Condition applies to Emission Unit: U-00001

Process: 005

Item 22.2:

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 23: **Alternative compliance methods for sulfur dioxide.**
Effective between the dates of 11/07/2005 and Permit Expiration Date

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

Item 23.1:

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

Item 23.2:

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

Condition 1-11: **Compliance Demonstration**
Effective between the dates of 07/10/2009 and Permit Expiration Date

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

Item 1-11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
Process: 005

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

Item 1-11.2:

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) 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 26: Compliance Demonstration
Effective between the dates of 11/07/2005 and Permit Expiration Date

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

Item 26.1:

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 26.2:

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: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2006.

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

Condition 1-12: Compliance Demonstration
Effective between the dates of 07/10/2009 and Permit Expiration Date

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

Item 1-12.1:

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 1-12.2:

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 §60.43c 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), or (3) 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 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 1/30/2010.

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

Condition 1-13: Compliance Demonstration

Effective between the dates of 07/10/2009 and Permit Expiration Date

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

Item 1-13.1:

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 1-13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(f) Fuel supplier certification shall include the following information:

(1) For distillate oil:

(i) The name of the oil supplier;



(ii) A statement from the oil supplier that the oil complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396 (incorporated by reference, see §60.17) or diesel fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D975 (incorporated by reference, see §60.17); and

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

Monitoring Frequency: PER DELIVERY

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 1/30/2010.

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 - 6NYCRR Part 201-1.10(a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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 32: Contaminant List

Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 32.1:

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: 0NY998-00-0
Name: VOC

Condition 1-14: Unavoidable noncompliance and violations

Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-1.4

Item 1-14.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment 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 commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon



as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 33: Unavoidable noncompliance and violations
Effective between the dates of 11/07/2005 and Permit Expiration Date**

Applicable State Requirement:6NYCRR 201-1.4

Item 33.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment 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 commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or



operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 34: Emission Unit Definition
Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-5

Item 34.1(From Mod 1):

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

Emission Unit: U-00001

Emission Unit Description:

This emission unit applies to three (3) Volcano Model D3-70L boilers and one (1) Keystone 'O' Style Watertube Package Boiler/ Model 12M in the Power House. The 3 Volcano boilers have a maximum design heat input rating of 83 million BTU/hr and the single Keystone boiler has a maximum heat input capacity of 64 mmBTU/hr. 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 all contain low NOx burners and utilize flue gas recirculation to control NOx emissions. Each boiler exhaust is ducted to a common stack.

Building(s): 11

Condition 1-15: Air pollution prohibited



Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable State Requirement:6NYCRR 211.2

Item 1-15.1:

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 41: Air pollution prohibited

Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable State Requirement:6NYCRR 211.2

Item 41.1:

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.

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

Condition 42: Emission Point Definition By Emission Unit

Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-5

Item 42.1(From Mod 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 43: Process Definition By Emission Unit

Effective between the dates of 11/07/2005 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-5

Item 43.1(From Mod 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 four boilers in the Power House 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. The hourly throughput for Boiler 001-4 at maximum operating capacity is approximately 0.063 million cubic feet per hour. 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: 001-4 - Combustion
Design Capacity: 64 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: 0C1-4 - 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

Emission Source/Control: FGR-4 - Control
Control Type: FLUE GAS RECIRCULATION

Item 43.2(From Mod 1):

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

Emission Unit: U-00001



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

Condition 1-16: Compliance Demonstration
Effective between the dates of 07/10/2009 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 211.2

Replaces Condition(s) 44

Item 1-16.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: SAN

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 1-16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Regulated medical waste and soiled laboratory animal bedding generated by the RPCI are currently sterilized on-site via a San-I-Pak autoclave, which is regulated by the New York State Department of Health. Sterilized and compacted waste is sent offsite for disposal at a landfill. Pathological waste, animal body parts and carcasses, chemotherapy waste, hazardous waste and radionuclear waste cannot be treated in the autoclave. The San-I-Pak sterilizer has no emission point, however, odors may occur due to fugitive emissions from the process or from the effluent discharged to the sanitary sewer.

In accordance with 6NYCRR211.2, "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 it's 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

New York State Department of Environmental Conservation

Permit ID: 9-1402-00406/00007

Facility DEC ID: 9140200406

