

Facility DEC ID: 1282200248

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 1-2822-00248/00009
Mod 0 Effective Date: 10/02/2020 Expiration Date: 10/01/2030
Mod 1 Effective Date: 04/26/2023 Expiration Date: 10/01/2030

Permit Issued To: THE FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH
350 COMMUNITY DR
MANHASSET, NY 11030

North Shore University Hospital
ATTN: ADMINISTRATION
300 COMMUNITY DR
MANHASSET, NY 11030

Contact: Manuel Sanchez
North Shore Hospital
300 Community Dr
Manhasset, NY 11030
(516) 562-2449

Facility: NORTH SHORE UNIVERSITY HOSPITAL & THE FEINSTEIN INSTITUTE
FOR MEDICAL RESEARCH
300 & 350 COMMUNITY DR
MANHASSET, NY 11030

Contact: MICHAEL SARDONE
North Shore University Hospital
300 Community Dr
Manhasset, NY 11030
(516) 562-3610

Description:
This is a modification of North Shore University Hospital's Air State Facility Permit. The facility adds a new 25MMBtu/hr Boiler.
The North Shore University Hospital (herein referred to as NSUH) consists of eight buildings which include the main hospital, Feinstein Institute for Medical Research (FIMR) and other ancillary buildings. The emission sources are: twenty boilers - fourteen of which are exempt, although four (4) of these exempt boilers that fire No. 2 fuel oil are subject to the Federal Boiler MACT rule (40 CFR 63 Subpart JJJJJ). The hospital also maintains twelve emergency generators that meet the exemption definitions and requirements set forth under 6NYCRR 200.1(cq) and 40 CFR Subpart 63 63.6640/63.6675. The hospital has laboratory hoods in two of the buildings that are exempt. The facility-wide

Facility DEC ID: 1282200248

emissions of Nitrogen Oxides are capped below 24.5 tons per year. This cap was established in this permit issued in 2020.

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: LAURA F STAR
NYS SUNY-BLDG 40
50 CIRCLE RD
STONY BROOK, NY 11790

Authorized Signature: _____ Date: ___ / ___ / _____

Facility DEC ID: 1282200248

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.

Facility DEC ID: 1282200248

PAGE LOCATION OF CONDITIONS

PAGE

DEC GENERAL CONDITIONS

General Provisions

- 5 1 Facility Inspection by the Department
- 5 2 Relationship of this Permit to Other Department Orders and Determinations
- 5 3 Applications for permit renewals, modifications and transfers
- 6 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 6 5 Submission of application for permit modification or renewal -
REGION 1 HEADQUARTERS

Facility DEC ID: 1282200248

DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:
 The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:
 The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:
 A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:
 Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:
 The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:
 The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3
 Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department

Facility DEC ID: 1282200248

Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal - REGION 1 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 1 Headquarters
Division of Environmental Permits
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409
(631) 444-0365

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: THE FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH
350 COMMUNITY DR
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North Shore University Hospital
ATTN: ADMINISTRATION
300 COMMUNITY DR
MANHASSET, NY 11030

Facility: NORTH SHORE UNIVERSITY HOSPITAL & THE FEINSTEIN
INSTITUTE FOR MEDICAL RESEARCH
300 & 350 COMMUNITY DR
MANHASSET, NY 11030

Authorized Activity By Standard Industrial Classification Code:
8062 - GENERAL MEDICAL & SURGICAL HOSPITALS

Mod 0 Permit Effective Date: 10/02/2020

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Mod 1 Permit Effective Date: 04/26/2023

Permit Expiration Date: 10/01/2030

PAGE LOCATION OF CONDITIONS

PAGE

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 7 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 7 2 6 NYCRR 201-1.7: Recycling and Salvage
- 7 3 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 7 4 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 8 5 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 8 6 6 NYCRR 202-1.1: Required Emissions Tests
- 8 7 40 CFR Part 68: Accidental release provisions.
- 9 8 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 9 9 6 NYCRR 201-7.1: Facility Permissible Emissions
- 9 *1-1 6 NYCRR 201-7.1: Capping Monitoring Condition
- 11 11 6 NYCRR 211.2: Visible Emissions Limited
- 11 1-2 6 NYCRR 225-1.2 (d): Compliance Demonstration
- 12 1-3 6 NYCRR 227-1.4 (a): Compliance Demonstration
- 13 1-4 6 NYCRR 227-1.4 (a): Compliance Demonstration
- 14 16 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 14 17 40CFR 60.12, NSPS Subpart A: Circumvention.
- 15 18 40CFR 63, Subpart JJJJJ: Applicability

Emission Unit Level

- 15 19 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

EU=1-BOILR

- 15 20 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

EU=1-BOILR,Proc=008

- 16 21 40CFR 60.14, NSPS Subpart A: Modifications.

EU=1-BOILR,Proc=012

- 16 22 40CFR 60.14, NSPS Subpart A: Modifications.

EU=U-RSRCH

- 16 23 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 18 24 ECL 19-0301: Contaminant List
- 18 1-5 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 19 26 6 NYCRR Subpart 201-5: Emission Unit Definition
- 20 27 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 20 28 6 NYCRR 201-5.3 (c): CLCPA Applicability
- 20 29 6 NYCRR 211.1: Air pollution prohibited

Emission Unit Level

- 21 30 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 21 31 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

NOTE: * preceding the condition number indicates capping.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

FEDERALLY ENFORCEABLE CONDITIONS

Mod 1/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

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

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

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

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

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

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

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

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 I: Required Emission Tests - 6 NYCRR 202-1.1

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

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item K: Permit Exclusion - ECL 19-0305

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

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

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

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: Acceptable Ambient Air Quality
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 200.6

Item 1.1:

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

Condition 2: Recycling and Salvage
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 2.1:

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

Condition 3: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 3.1:

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

Condition 4: Exempt Sources - Proof of Eligibility
Effective between the dates of 10/02/2020 and 10/01/2030

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

Item 4.1:

The owner or operator of an emission source or activity that is listed as being exempt may be

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

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

Condition 5: Trivial Sources - Proof of Eligibility
Effective between the dates of 10/02/2020 and 10/01/2030

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

Item 5.1:

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

Condition 6: Required Emissions Tests
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 6.1:

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

Condition 7: Accidental release provisions.
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:40 CFR Part 68

Item 7.1:

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

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

Risk Management Plan Reporting Center

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

Condition 8: Recycling and Emissions Reduction
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:40CFR 82, Subpart F

Item 8.1:
The permittee shall comply with all applicable provisions of 40 CFR Part 82.

Condition 9: Facility Permissible Emissions
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 9.1:
The sum of emissions from the emission units specified in this permit shall not equal or exceed the following
Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY210-00-0 (From Mod 1) PTE: 49,000 pounds
per year
Name: OXIDES OF NITROGEN

Condition 1-1: Capping Monitoring Condition
Effective between the dates of 04/26/2023 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 201-7.1

Replaces Condition(s) 10

Item 1-1.1:
Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 1-1.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-1.3:
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 1-1.4:

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

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 1-1.5:

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 1-1.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 1-1.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Total facility NO_x will be capped at 24.5 tons/yr. The facility will monitor emissions using a 12- month rolling average of the emission sources. The records shall be maintained on the site for atleast five years.

The NO_x emissions shall be computed as follows:

For the Feinstei Cleaver Brooks Boiler operating on
Natural Gas:

$NO_x \text{ (tons/yr)} = [(37 \text{ lbs } NO_x / 10^6 \text{ scf}) * \text{Monthly Fuel Usage (scf)}] / 2000 \text{ lbs/yr};$

For the Fulton Steam Boiler operating on Natural Gas:

$NO_x \text{ (tons/yr)} = [(73 \text{ lbs } NO_x / 10^6 \text{ scf}) * \text{Monthly Fuel Usage (scf)}] / 2000 \text{ lbs/yr};$

For the Main Plant Cleaver Brooks Boiler operating on
Natural Gas :

$NO_x \text{ (tons/yr)} = [(73 \text{ lbs } NO_x / 10^6 \text{ scf}) * \text{Monthly Fuel Usage (scf)}] / 2000 \text{ lbs/yr};$

For all Boilers operating on Natural Gas except Feinstei
Cleaver Brooks Boiler, Fulton Steam Boiler and Main Plant
Cleaver Brooks Boiler:

$NO_x \text{ (tons/yr)} = [(100 \text{ lbs } NO_x / 10^6 \text{ scf}) * \text{Monthly Fuel Usage (scf)}] / 2000 \text{ lbs/yr};$

For the Feinstei Cleaver Brooks Boiler operating on Fuel

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Oil:

NO_x (tons/yr) = [(19.1 lbs NO_x / 1000 gallons) * (Monthly Fuel Oil Usage (gallons))] / 2000 lbs/ton;

For the Main Plant Cleaver Brooks boiler operating on Fuel Oil:

NO_x (tons/yr) = [(15.9 lbs NO_x / 1000 gallons) * (Monthly Fuel Usage (gallons))] / 2000 lbs /ton

For all Boilers operating on Fuel Oil except the Feinstein Cleaver Brooks Boiler and the Main Plant Cleaver Brooks boiler:

NO_x (tons/yr) = [(20 lbs NO_x / 1000 gallons) * (Monthly Fuel Oil Usage (gallons))] / 2000 lbs/ton;

Generators operating on Fuel Oil:

Generators > 600 horsepower:

NO_x (tons/yr) = [(3.2 lbs NO_x / MMBTU * (0.138 MMBTU/gallon) * (Monthly Fuel Oil Usage (gallons))] / 2000 lbs/ton;

Generators < 600 horsepower:

NO_x (tons/yr) = [(4.41 lbs NO_x / MMBTU * (0.138 MMBTU/gallon) * (Monthly Fuel Oil Usage (gallons))] / 2000 lbs/ton;

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 11: Visible Emissions Limited
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 211.2

Item 11.1:

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

Condition 1-2: Compliance Demonstration
Effective between the dates of 04/26/2023 and 10/01/2030

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

Item 1-2.1:

The Compliance Demonstration activity will be performed for the Facility.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Item 1-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

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

Condition 1-3: Compliance Demonstration
Effective between the dates of 04/26/2023 and 10/01/2030

Applicable Federal Requirement: 6 NYCRR 227-1.4 (a)

Item 1-3.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-3.2:

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 subject to this Subpart shall operate an emission source which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The owner or operator will conduct a Method 9 test annually. A report of the results of the test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: 40 CFR 60, Appendix A, Method 9
 Monitoring Frequency: ANNUALLY
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-4: Compliance Demonstration
Effective between the dates of 04/26/2023 and 10/01/2030

Applicable Federal Requirement: 6 NYCRR 227-1.4 (a)

Item 1-4.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil firing emission sources subject to 6 NYCRR Subpart 227-1 which do not employ a continuous opacity monitor for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack for each emission source which is operating on oil once per day for visible emissions. 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:
 - date and time of day
 - observer's name
 - identity of the emission point
 - weather conditions
 - was a plume 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.

- 3) If the operator observes any visible emissions (other than steam - see below) for two consecutive days while 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

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

point(s) must be conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be 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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 16: EPA Region 2 address.
Effective between the dates of 10/02/2020 and 10/01/2030**

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 16.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

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

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

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

**Condition 17: Circumvention.
Effective between the dates of 10/02/2020 and 10/01/2030**

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 17.1:

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 18: Applicability
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:40CFR 63, Subpart JJJJJJ

Item 18.1:

Facilities that are area sources of HAP with industrial, commercial, or institutional boilers must comply with applicable portions of 40 CFR 63 JJJJJJ.

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

Condition 19: Emission Unit Permissible Emissions
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 19.1:

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

Emission Unit: U-RSRCH

CAS No: 0NY210000 (From Mod 0)

Name: OXIDES OF NITROGEN

PTE(s): 48,000 pounds per year

6 pounds per hour

Condition 20: Applicability of this Subpart to this emission source
Effective between the dates of 10/02/2020 and 10/01/2030

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

Item 20.1:

This Condition applies to Emission Unit: 1-BOILR

Item 20.2:

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.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Condition 21: Modifications.

Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 21.1:

This Condition applies to Emission Unit: 1-BOILR
Process: 008

Item 21.2:

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 22: Modifications.

Effective between the dates of 10/02/2020 and 10/01/2030

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 22.1:

This Condition applies to Emission Unit: 1-BOILR
Process: 012

Item 22.2:

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 23: Applicability of this Subpart to this emission source

Effective between the dates of 10/02/2020 and 10/01/2030

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

Item 23.1:

This Condition applies to Emission Unit: U-RSRCH

Item 23.2:

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.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

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

(2) the equipment at the facility was being properly operated and maintained;

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

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

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

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

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

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

Item C: 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 24: Contaminant List

Effective between the dates of 10/02/2020 and 10/01/2030

Applicable State Requirement:ECL 19-0301

Item 24.1:

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

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Condition 1-5: Malfunctions and Start-up/Shutdown Activities

Effective between the dates of 04/26/2023 and 10/01/2030

Applicable State Requirement:6 NYCRR 201-1.4

Replaces Condition(s) 25

Item 1-5.1:

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

- (a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.
- (b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.
- (c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.
- (d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.
- (e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 26: Emission Unit Definition
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 26.1 (From Mod 1):

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

Emission Unit: 1-BOILR

Emission Unit Description:

Four (4) dual fired boilers capable of firing natural gas and #2 fuel oil. These boilers operate predominately on natural gas. Two boilers are rated at 42 MMBTU/hr and one is rated at 49 MMBTU/hr. Boiler #3 has an electronic fuel/air controller to limit the maximum firing rate to 49

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

MMBtu/hr, derated from 63 MMBtu/hr. The new boiler is rated at 25MMBtu/hr and is equipped with a low NOx burner.

Building(s): MAIN

Item 26.2(From Mod 0):

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

Emission Unit: U-RSRCH

Emission Unit Description:

Two (2) boilers rated at 20.4 MMBTU/hr, a steam generator (exempt), and an emergency generator (exempt) located in the Feinstein Institute for Medical Research building.

Building(s): RESEAR

**Condition 27: Renewal deadlines for state facility permits
Effective between the dates of 10/02/2020 and 10/01/2030**

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

Item 27.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Condition 28: CLCPA Applicability
Effective between the dates of 10/02/2020 and 10/01/2030**

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

Item 28.1:

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

**Condition 29: Air pollution prohibited
Effective between the dates of 10/02/2020 and 10/01/2030**

Applicable State Requirement:6 NYCRR 211.1

Item 29.1:

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.

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

**** Emission Unit Level ****

Condition 30: Emission Point Definition By Emission Unit
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 30.1(From Mod 1):

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

Emission Unit: 1-BOILR

Emission Point: 00001

Height (ft.): 75

Diameter (in.): 66

NYTMN (km.): 4514.923 NYTME (km.): 609.633 Building: MAIN

Item 30.2(From Mod 0):

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

Emission Unit: U-RSRCH

Emission Point: 00007

Height (ft.): 108

Diameter (in.): 50

NYTMN (km.): 4514.923 NYTME (km.): 609.633 Building: RESEAR

Condition 31: Process Definition By Emission Unit
Effective between the dates of 10/02/2020 and 10/01/2030

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 31.1(From Mod 1):

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

Emission Unit: 1-BOILR

Process: 008

Source Classification Code: 1-03-005-01

Process Description: The following boilers can fire #2 oil:

Emission Source/Control: 0M001 - Combustion

Design Capacity: 42 million Btu per hour

Emission Source/Control: 0M002 - Combustion

Design Capacity: 42 million Btu per hour

Emission Source/Control: 0M003 - Combustion

Design Capacity: 49 million Btu per hour

Emission Source/Control: 0M004 - Combustion

Design Capacity: 25 million Btu per hour

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248

Item 31.2(From Mod 1):

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

Emission Unit: 1-BOILR
 Process: 012 Source Classification Code: 1-03-006-02
 Process Description: The following boilers can fire natural gas

Emission Source/Control: 0M001 - Combustion
 Design Capacity: 42 million Btu per hour

Emission Source/Control: 0M002 - Combustion
 Design Capacity: 42 million Btu per hour

Emission Source/Control: 0M003 - Combustion
 Design Capacity: 49 million Btu per hour

Emission Source/Control: 0M004 - Combustion
 Design Capacity: 25 million Btu per hour

Item 31.3(From Mod 0):

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

Emission Unit: U-RSRCH
 Process: 006 Source Classification Code: 1-03-005-01
 Process Description: The following boilers can fire #2 fuel oil:

Emission Source/Control: 0RSH3 - Combustion
 Design Capacity: 20.4 million Btu per hour

Emission Source/Control: 0RSH4 - Combustion
 Design Capacity: 20.4 million Btu per hour

Item 31.4(From Mod 0):

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

Emission Unit: U-RSRCH
 Process: 013 Source Classification Code: 1-03-006-02
 Process Description: The following boilers can fire natural gas:

Emission Source/Control: 0RSH3 - Combustion
 Design Capacity: 20.4 million Btu per hour

Emission Source/Control: 0RSH4 - Combustion
 Design Capacity: 20.4 million Btu per hour

Permit ID: 1-2822-00248/00009

Facility DEC ID: 1282200248