



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 1-4722-00243/00027
Effective Date: 10/06/2014 Expiration Date: 10/05/2024

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

Contact: STATE UNIVERSITY OF NEW YORK
STATE UNIVERSITY PLAZA
381 BROADWAY
ALBANY, NY 12246
(518) 443-5355

Facility: SUNY AT STONY BROOK
NICOLLS RD - WEST SIDE
STONY BROOK, NY 11794

Contact: CLIFFORD KNEE
ENVIRONMENTAL HEALTH & SAFETY
110 SUFFOLK HALL - SUNY
STONY BROOK, NY 11794-6200
(631) 632-6410

Description:

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: SUSAN ACKERMAN
NYSDEC - REGION 1 SUNY @ STONY BROOK
50 CIRCLE RD
STONY BROOK, NY 11790-3409

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

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



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

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

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



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

Item 4.1:

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

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

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

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

New York State Department of Environmental Conservation

Permit ID: 1-4722-00243/00027

Facility DEC ID: 1472200243



Permit Under the Environmental Conservation Law (ECL)

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

IDENTIFICATION INFORMATION

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

Facility: SUNY AT STONY BROOK
NICOLLS RD - WEST SIDE
STONY BROOK, NY 11794

Authorized Activity By Standard Industrial Classification Code:

- 4911 - ELECTRIC SERVICES
- 4961 - STEAM SUPPLY
- 8051 - SKILLED NURSING CARE FACILITIES
- 8099 - HEALTH AND ALLIED SERVICES, NEC
- 8221 - COLLEGES AND UNIVERSITIES, NEC
- 8351 - CHILD DAY CARE SERVICES
- 8731 - COMMERCIAL PHYSICAL RESEARCH
- 8999 - SERVICES, NEC

Permit Effective Date: 10/06/2014

Permit Expiration Date: 10/05/2024



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *2 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *4 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 5 6 NYCRR 211.1: Air pollution prohibited
- 6 6 NYCRR 225-1.2 (g): Compliance Demonstration
- 7 6 NYCRR 225-1.2 (h): Compliance Demonstration
- 8 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 9 40CFR 63.11223(f), Subpart JJJJJ: Compliance Demonstration

Emission Unit Level

EU=U-00004,EP=OET01,Proc=700

- 10 6 NYCRR 212.4: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 11 ECL 19-0301: Contaminant List
- 12 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 13 6 NYCRR Subpart 201-5: Emission Unit Definition
- 14 6 NYCRR Subpart 201-5: Compliance Demonstration
- 15 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 16 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 17 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

- 18 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 19 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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



required to operate such device effectively.

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

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

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

Item E: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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



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

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

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

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

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

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

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

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

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item J: Required Emission Tests - 6 NYCRR 202-1.1



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

Item K: Open Fires Prohibitions - 6 NYCRR 215.2
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item L: Permit Exclusion - ECL 19-0305
The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item M: Federally Enforceable Requirements - 40 CFR 70.6 (b)
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Facility Permissible Emissions



Effective between the dates of 10/06/2014 and 10/05/2024

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1.1:

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

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

CAS No: 0NY210-00-0

PTE: 45,000 pounds per year

Name: OXIDES OF NITROGEN

Condition 2: Capping Monitoring Condition

Effective between the dates of 10/06/2014 and 10/05/2024

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2.1:

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

40 CFR 63.11223 (b)

Item 2.2:

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

Item 2.3:

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 2.4:

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 2.5:

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 2.6:

The Compliance Demonstration activity will be performed for the facility:



The Compliance Demonstration applies to:

Emission Unit: U-00001 Process: 100	Emission Source: 01201
Emission Unit: U-00002 Process: 300	Emission Source: 200A1
Emission Unit: U-00002 Process: 300	Emission Source: 200C1
Emission Unit: U-00002 Process: 300	Emission Source: 200D1
Emission Unit: U-00002 Process: 300	Emission Source: 200E1
Emission Unit: U-00002 Process: 400	Emission Source: 200A1
Emission Unit: U-00002 Process: 400	Emission Source: 200C1
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 2.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

It is the intent of the facility for the Boilers in the West Power Plant and for Boiler #2 in the East Power Plant to cap out of the biannual tune up schedule of 40 CFR 63.11223(b).

Each Boiler shall maintain a combined annual capacity factor of 10 percent or less. Annual capacities shall be calculated monthly on a rolling basis.

Annual capacity factor means the ratio between the actual heat input to a steam generating unit during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.

Parameter Monitored: ANNUAL CAPACITY FACTOR

Upper Permit Limit: 10 percent

Monitoring Frequency: MONTHLY

New York State Department of Environmental Conservation

Permit ID: 1-4722-00243/00027

Facility DEC ID: 1472200243



Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

Condition 3: Capping Monitoring Condition
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 3.1:

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

40 CFR 60.44b (i)

Item 3.2:

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

Item 3.3:

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

Item 3.4:

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

Item 3.5:

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

Item 3.6:

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

Emission Unit: U-00002

Process: 300

Emission Source: 200A1

Emission Unit: U-00002

Process: 300

Emission Source: 200C1



Emission Unit: U-00002
Process: 400 Emission Source: 200A1

Emission Unit: U-00002
Process: 400 Emission Source: 200C1

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

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

It is the intent of the facility for the Boilers #1 and #3 in the West Power Plant to cap out of the NO_x emission limits of 40 CFR 60.44b(k). Each Boiler shall meet the following conditions:

(1) Baring more stringent limitations listed elsewhere: combust only natural gas and/or distillate oil with a maximum nitrogen content of 0.30 weight percent or less; and

(2) Maintain a combined annual capacity factor of 10 percent or less.

Annual capacities shall be calculated monthly on a rolling basis.

Annual capacity factor means the ratio between the actual heat input to a steam generating unit during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.

Parameter Monitored: ANNUAL CAPACITY FACTOR

Upper Permit Limit: 10 percent

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

Condition 4: Capping Monitoring Condition
Effective between the dates of 10/06/2014 and 10/05/2024



Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 4.1:

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

6 NYCRR Subpart 201-6

6 NYCRR Subpart 231-3

Item 4.2:

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

Item 4.3:

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

Item 4.4:

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

Item 4.5:

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

Item 4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility wide NO_x emissions total is restricted to 45000 pounds or less during any consecutive 12 month period. Rolling annual totals shall be calculated monthly.



Monthly NO_x emissions (X) are determined using AP-42 emission factors as follows:

$$X = [(A \times B) + (C \times D) + (E \times F) + (G \times H) + (I \times J) + (K \times L) + (M \times N)]$$

where:

A is the monthly natural gas consumption of the East and West Power Plant boilers, excluding that burned in Boiler #3 of the East Plant;

B is 140 lbs/mmcf;

C is monthly natural gas consumption in all other campus boilers and smaller units;

D is 100 lbs/mmcf;

E is monthly distillate oil consumption from all boilers, excluding that burned in Boiler #3 of the East Campus Plant;

F is 20 lbs/1,000 gallons;

G is monthly natural gas consumption from the emergency generators;

H is 2,350 lbs/mmcf;

I is the monthly distillate consumption from the emergency generators;

J is 608.6 lbs/1,000 gallons;

K is the monthly natural gas consumption (mmcf) of Boiler #3 of the East Campus Plant;

L is 35 lbs/mmcf;

M is the monthly distillate consumption of Boiler #3 of the East Campus Plant; and

N is 13.3 lb/1,000 gallons.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 22.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

New York State Department of Environmental Conservation

Permit ID: 1-4722-00243/00027

Facility DEC ID: 1472200243



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

Condition 5: Air pollution prohibited
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable Federal Requirement:6 NYCRR 211.1

Item 5.1:

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 6: Compliance Demonstration
Effective between the dates of 10/06/2014 and 10/05/2024

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

Item 6.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
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 7: Compliance Demonstration
Effective between the dates of 10/06/2014 and 10/05/2024

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

Item 7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

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

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
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 8: Compliance Demonstration
Effective between the dates of 10/06/2014 and 10/05/2024

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

Item 8.1:

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



Emission Unit: U-00001	Emission Point: 34011
Emission Unit: U-00001	Emission Point: 34012
Emission Unit: U-00001	Emission Point: 34013
Emission Unit: U-00001	Emission Point: 34014
Emission Unit: U-00002	Emission Point: 20001

Item 8.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

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

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Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 9: Compliance Demonstration
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable Federal Requirement:40CFR 63.11223(f), Subpart JJJJJ

Item 9.1:

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

Emission Unit: U-00001	
Process: 100	Emission Source: 01201
Emission Unit: U-00002	
Process: 300	Emission Source: 200A1
Emission Unit: U-00002	
Process: 300	Emission Source: 200C1
Emission Unit: U-00002	
Process: 300	Emission Source: 200D1
Emission Unit: U-00002	
Process: 300	Emission Source: 200E1
Emission Unit: U-00002	
Process: 400	Emission Source: 200A1
Emission Unit: U-00002	
Process: 400	Emission Source: 200C1

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Limited-use boilers must conduct a tune-up every 5 years as specified in 40 CFR 63.11223(b)(1) through (7). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed limited-use boiler, the first 5-year tune-up must be no later than 61 months after the initial startup. The owner or operator may delay the burner inspection specified in



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



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

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

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

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

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 11: Contaminant List
Effective between the dates of 10/06/2014 and 10/05/2024



Applicable State Requirement:ECL 19-0301

Item 11.1:

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

CAS No: 000075-21-8
Name: ETHYLENE OXIDE

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

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

**Condition 12: Malfunctions and start-up/shutdown activities
Effective between the dates of 10/06/2014 and 10/05/2024**

Applicable State Requirement:6 NYCRR 201-1.4

Item 12.1:

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

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

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

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



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

Condition 13: Emission Unit Definition
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 13.1:

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

Emission Unit: U-00001

Emission Unit Description:

East Boiler Plant: This emission unit consists of three (3) Erie City-Keystone boilers and a Rentech Low NOx boiler.

Boiler #1, Boiler #3, and Boiler #4 are dual fuel capable (distillate and natural gas). Boiler #2 is limited to burning distillate oil. The plant serves the co-located SUNY Health Science Center and University Hospital. Each boiler exhausts through an individual stack.

East Boiler #1 - Erie City Keystone - source ID 1101

East boiler #2 - Erie City Keystone - source ID 1201

East Boiler #3 - Rentech - source ID 1302

East boiler #4 - Erie City Keystone - source ID 1401

Building(s): 405

Item 13.2:

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

Emission Unit: U-00002

Emission Unit Description:

West Boiler Plant: This Emission Unit consists of two (2) Combustion Engineering and two (2) Keeler Built-up boilers. The boilers produce steam which is in turn used to produce high temperature hot water for space heating.

The Combustion Engineering boilers are dual-fired (distillate oil and natural gas). The Keeler boilers are distillate oil only. All exhaust through a common stack and all are equipped with particulate control devices.

The Combustion Engineering boilers began operation in 1974 as 115 MMBTU/hr oil-only units but were upgraded in the 1990's to dual-fuel and 130 MMBTU/hr; while the Keelers were brought on-line in 1976.

West Boiler #1 - Combustion Engineering - source ID 200A1

West boiler #3 - Combustion Engineering - source ID 200C1

West Boiler #4 - Keeler - source ID 200D1

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West boiler #5 - Keeler - source ID 200E1

Building(s): 8

Item 13.3:

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

Emission Unit: U-00004

Emission Unit Description:

Ethylene Oxide Sterilizer: Two (2) 3M Steri-Vac Model 8XL Ethylene Oxide (EtO) Sterilizer/Aerators and two (2) 3M Steri-Vac Model 5XL EtO Sterilizer/Aerators. They are located in University Hospital (Building #401) and used for disinfection of hospital equipment. These units use small 100% EtO containers for sterilization and are tied into two 3M/Donaldson Abaters that reduces EtO emissions by 99.9%.

Building(s): 401

Condition 14: Compliance Demonstration
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility will document compliance with fuel sulfur limitations by maintaining records of fuel supplier certification which state the percent fuel sulfur content by weight for each shipment received.

The facility specific fuel sulphur limitation is 0.2 percent by weight.

The facility is limited to the purchase of distillate oil with 0.2 percent sulfur by weight, or less, prior to July 1, 2014. Data collected pursuant to this condition must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

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Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: .2 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 15: Renewal deadlines for state facility permits
Effective between the dates of 10/06/2014 and 10/05/2024**

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

Item 15.1:

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 16: Compliance Demonstration
Effective between the dates of 10/06/2014 and 10/05/2024**

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

Item 16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 1
SUNY at Stony Brook
Building 40
Stony Brook, NY 11790-2356

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 17: Visible Emissions Limited
Effective between the dates of 10/06/2014 and 10/05/2024**

Applicable State Requirement:6 NYCRR 211.2

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Item 17.1:

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

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

Condition 18: Emission Point Definition By Emission Unit
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 18.1:

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

Emission Unit: U-00001

Emission Point: 34011

Height (ft.): 90

Diameter (in.): 48

NYTMN (km.): 4530.238

NYTME (km.): 658.858

Building: 405

Emission Point: 34012

Height (ft.): 90

Diameter (in.): 48

NYTMN (km.): 4530.231

NYTME (km.): 658.857

Building: 405

Emission Point: 34013

Height (ft.): 90

Diameter (in.): 48

NYTMN (km.): 4530.225

NYTME (km.): 658.856

Building: 405

Emission Point: 34014

Height (ft.): 90

Diameter (in.): 48

NYTMN (km.): 4530.217

NYTME (km.): 658.855

Building: 405

Item 18.2:

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

Emission Unit: U-00002

Emission Point: 20001

Height (ft.): 75

Diameter (in.): 108

NYTMN (km.): 4531.131

NYTME (km.): 657.533

Building: 8

Item 18.3:

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

Emission Unit: U-00004

Emission Point: OET01

Height (ft.): 252

Diameter (in.): 4



NYTMN (km.): 4530.425 NYTME (km.): 658.643 Building: 401

Condition 19: Process Definition By Emission Unit
Effective between the dates of 10/06/2014 and 10/05/2024

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 19.1:

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

Emission Unit: U-00001
Process: 100 Source Classification Code: 1-03-005-02
Process Description:
Process 100 is the combustion of distillate oil to produce steam for space heating.

Emission Source/Control: 01101 - Combustion
Design Capacity: 85 million Btu per hour

Emission Source/Control: 01201 - Combustion
Design Capacity: 95.6 million Btu per hour

Emission Source/Control: 01302 - Combustion
Design Capacity: 99.6 million Btu per hour

Emission Source/Control: 01401 - Combustion
Design Capacity: 85 million Btu per hour

Item 19.2:

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

Emission Unit: U-00001
Process: 200 Source Classification Code: 1-02-006-02
Process Description:
Process 200 is the combustion of natural gas to produce steam for space heating.

Emission Source/Control: 01101 - Combustion
Design Capacity: 85 million Btu per hour

Emission Source/Control: 01302 - Combustion
Design Capacity: 99.6 million Btu per hour

Emission Source/Control: 01401 - Combustion
Design Capacity: 85 million Btu per hour

Item 19.3:

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

Emission Unit: U-00002
Process: 300 Source Classification Code: 1-03-005-02
Process Description:

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Process 300 is the combustion of distillate fuel oil to produce steam which is, in turn, used to produce high temperature hot water for space heating and to create chiller loads for cooling during the summer.

Emission Source/Control: 200A1 - Combustion
Design Capacity: 130 million Btu per hour

Emission Source/Control: 200C1 - Combustion
Design Capacity: 130 million Btu per hour

Emission Source/Control: 200D1 - Combustion
Design Capacity: 112.5 million Btu per hour

Emission Source/Control: 200E1 - Combustion
Design Capacity: 112.5 million Btu per hour

Emission Source/Control: 200A2 - Control
Control Type: GRAVITY COLLECTOR

Emission Source/Control: 200C2 - Control
Control Type: GRAVITY COLLECTOR

Emission Source/Control: 200D2 - Control
Control Type: GRAVITY COLLECTOR

Emission Source/Control: 200E2 - Control
Control Type: GRAVITY COLLECTOR

Item 19.4:

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

Emission Unit: U-00002

Process: 400

Source Classification Code: 1-02-006-02

Process Description:

Process 400 is the combustion of natural gas to produce steam which in turn is used to produce high temperature hot water for space heating and to create chiller loads for cooling during the summer.

Emission Source/Control: 200A1 - Combustion
Design Capacity: 130 million Btu per hour

Emission Source/Control: 200C1 - Combustion
Design Capacity: 130 million Btu per hour

Emission Source/Control: 200A2 - Control
Control Type: GRAVITY COLLECTOR

Emission Source/Control: 200C2 - Control
Control Type: GRAVITY COLLECTOR

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Item 19.5:

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

Emission Unit: U-00004

Process: 700

Source Classification Code: 3-15-020-01

Process Description:

Process 700 is the sterilization of hospital equipment using two (2) 3M Sterivac Model 8XL Ethylene Oxide (EtO) Sterilizer/Aerators and two (2) 3M Sterivac Model 5XL Sterilizers for the sterilization of hospital equipment. Hospital equipment is treated in a vacuum chamber using a 100% supply mixture of EtO gas. Exhaust emissions of EtO are reduced by 99.9% with two 3M Model 50 Abator Systems.

Emission Source/Control: EO201 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: EO202 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: EO103 - Process

Emission Source/Control: EO104 - Process

Emission Source/Control: EO105 - Process

Emission Source/Control: EO106 - Process

