



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6102-00005/00017
Mod 0 Effective Date: 02/05/2009 Expiration Date: 02/04/2014
Mod 1 Effective Date: 11/21/2011 Expiration Date: No expiration date.
Mod 2 Effective Date: 02/27/2012 Expiration Date: 02/04/2014

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION
96-05 HORACE HARDING EXPWY
FLUSHING, NY 11368

Contact: DOUGLAS S GREELEY
NYCDEP/BWT
96-05 HORACE HARDING EXPWY 2ND FL
CORONA, NY 11368
(718) 595-5050

Facility: NYC-DEP OWLS HEAD WPCP
6700 SHORE RD
BROOKLYN, NY 11220

Description:

This is a 120 million gallon per day (MGD) publicly owned secondary water pollution control plant (WPCP). The facility has three (3) engine - generator systems. The three engines are dual fuel engines; each is rated 3174 bhp and firing primarily sludge digester gas with #2 diesel as pilot fuel. The facility also has five (5) hot water boilers all are considered exempt sources (rated <10 million btu/hr) and able to fire natural gas or digester gas or #2 diesel oil. The facility has two(2) exempt 150 bhp engine generators for emergency power, two(2) waste digester gas burners to flare excessive sludge digester gas and three (3) 70 KW micro-turbine generators for research and developmental purposes.

The proposed engine control improvement consists of two phases: Phase 1 and Phase 2. The proposed project will reintroduce a readily available gas supply system to the engines, allowing the entire facility under normal conditions to be operated without drawing any electrical power from the utility grid while utilizing all of the available digester gas, which is now partially flared, and decreasing the use of diesel fuel. The project will not change the engine operating method and capacity.



Also, these improvements will reduce the NO_x emissions during the normal operation of the engines while using dual fuel to below the 2.3 g/bhp/hr NO_x RACT requirement, bringing the engines in compliance with 6 NYCRR § 227-2.4(f)(2)(ii)(b).

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: JOHN F CRYAN
 NYSDEC
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5407

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
 - Permit modifications, suspensions or revocations by the Department

Facility Level

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



DEC GENERAL CONDITIONS

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

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

The permittee must submit a renewal application at least 180 days before 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 to the Department for approval.



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

Applicable State Requirement: 6 NYCRR 621.13

Item 2-1.1:

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.

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 modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

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

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

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

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

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

NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 490-4007



New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION
96-05 HORACE HARDING EXPWY
FLUSHING, NY 11368

Facility: NYC-DEP OWLS HEAD WPCP
6700 SHORE RD
BROOKLYN, NY 11220

Authorized Activity By Standard Industrial Classification Code:
4952 - SEWERAGE SYSTEMS

Mod 0 Permit Effective Date: 02/05/2009

Permit Expiration Date: 02/04/2014

Mod 2 Permit Effective Date: 02/27/2012

Permit Expiration Date: 02/04/2014



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2-1 6 NYCRR 201-6.5 (a) (7): Fees
- 3 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 4 6 NYCRR 201-6.5 (c) (2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.5 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 2-2 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.5 (a) (4): Standard Requirement - Provide Information
- 16 6 NYCRR 201-6.5 (a) (8): General Condition - Right to Inspect
- 17 6 NYCRR 201-6.5 (d) (5): Standard Requirements - Progress Reports
- 18 6 NYCRR 201-6.5 (f) (6): Off Permit Changes
- 2-3 6 NYCRR 202-1.1: Required Emissions Tests
- 21 40 CFR Part 68: Accidental release provisions.
- 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR Subpart 201-6: Emission Unit Definition
- *25 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *26 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 27 6 NYCRR 202-1.2: Notification
- 2-4 6 NYCRR 211.1: Air pollution prohibited
- 28 6 NYCRR 225-1.2 (a) (2): Compliance Certification
- 29 6 NYCRR 225-1.8: Compliance Certification
- 30 6 NYCRR 227.2 (b) (1): Compliance Certification
- 31 40CFR 63.1586, Subpart VVV: Existing Non-Industrial POTW Treatment Plants

Emission Unit Level

- 32 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 33 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 2-5 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions

EU=1-COMBU

- 34 6 NYCRR Subpart 201-6: Compliance Certification
- 35 6 NYCRR 201-6.5: Compliance Certification
- *2-6 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *2-7 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *2-8 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 36 6 NYCRR 227-1.3: Compliance Certification



- 41 6 NYCRR 227-1.3 (a): Compliance Certification
- 37 6 NYCRR 227-2.5 (c): Compliance Certification

EU=1-COMBU,Proc=DIE

- 38 6 NYCRR 227-2.5 (c): Compliance Certification

EU=1-COMBU,Proc=DUA

- 39 6 NYCRR 227-2.5 (c): Compliance Certification

EU=1-COMBU,Proc=FLA

- 40 6 NYCRR Part 212: Compliance Certification

EU=1-COMBU,EP=FLAR1,Proc=FLA,ES=WDGB1

- 42 6 NYCRR 212.6 (a): Compliance Certification

EU=1-COMBU,EP=FLAR2,Proc=FLA,ES=WDGB2

- 43 6 NYCRR 212.6 (a): Compliance Certification

EU=M-TURB1

- 44 6 NYCRR 227-2.4 (g): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 45 ECL 19-0301: Contaminant List
- 2-9 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 2-10 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

EU=1-COMBU,Proc=DUA

- 2-11 6 NYCRR 227-2.4 (f) (3): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



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

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

Item A: 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 B: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.



Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.3 (a) (4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item D: Certification by a Responsible Official - 6 NYCRR 201-6.3 (d) (12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.5 (a) (2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.5 (a) (3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5 (a) (5)

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

Item H: Property Rights - 6 NYCRR 201-6.5 (a) (6)

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



Item I: Severability - 6 NYCRR 201-6.5 (a) (9)

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

Item J: Permit Shield - 6 NYCRR 201-6.5 (g)

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

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR 201-6.5 (i)

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is



three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

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.

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

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

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 02/05/2009 and 02/04/2014

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 2-1: Fees
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (7)

Item 2-1.1:

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

Condition 3: Recordkeeping and reporting of compliance monitoring
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (c)

Item 3.1:



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

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

Condition 4: Monitoring, Related Recordkeeping, and Reporting Requirements.

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (2)

Item 4.1:

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

Condition 5: Compliance Certification

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Submit reports of any required monitoring at a minimum



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

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

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

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

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A



written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

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

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

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

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).



Condition 6: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement: 6 NYCRR 201-6.5 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to



the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2010.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:
The Compliance Certification activity will be performed for the Facility.

Item 7.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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



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

Condition 8: Recordkeeping requirements
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

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

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

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

Condition 2-2: Open Fires - Prohibitions
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 215.2

Item 2-2.1:

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

Item 2-2.2

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

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke



producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.

(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.

(i) Prescribed burns performed according to Part 194 of this Title.

(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.

(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

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

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

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

**Condition 10: Maintenance of Equipment
Effective between the dates of 02/05/2009 and 02/04/2014**

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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

**Condition 11: Recycling and Salvage
Effective between the dates of 02/05/2009 and 02/04/2014**

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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 the ECL.



Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility

Effective between the dates of 02/05/2009 and 02/04/2014

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

Item 13.1:

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 this Subpart. 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 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.

Condition 14: Trivial Sources - Proof of Eligibility

Effective between the dates of 02/05/2009 and 02/04/2014

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

Item 14.1:

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. 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 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.

Condition 15: Standard Requirement - Provide Information

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (4)

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records



required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: General Condition - Right to Inspect
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (8)

Item 16.1:

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

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

Condition 17: Standard Requirements - Progress Reports
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (d) (5)

Item 17.1:

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

- (i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 18: Off Permit Changes
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5 (f) (6)

Item 18.1:

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping,



reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

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

(ii) The permit shield described in section 6 NYCRR 201-6.6 shall not apply to any change made pursuant to this paragraph.

Condition 2-3: Required Emissions Tests
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 2-3.1:

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

Condition 21: Accidental release provisions.
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:40 CFR Part 68

Item 21.1:

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

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

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr



Carrollton, Md. 20785

Condition 22: Recycling and Emissions Reduction
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:40CFR 82, Subpart F

Item 22.1:

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

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

Condition 23: Emission Unit Definition
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 23.1(From Mod 2):

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

Emission Unit: 1-COMBU

Emission Unit Description:

This emission unit consists of the plant's combustion equipment processes.

The plant has three (3) Delaval enterprise's DGSR-48 dual fuel engines originally installed in 1988 to replace six old engines. These engines are each rated 3174 bhp and drive three 2250 kw generators. Each engine exhausts through two stacks. These engines are currently undergoing modification of their combustion controls. The normal operation is one engine fires digester gas with diesel pilot dual fuel at 2000 KW with 2821 bhp. Natural gas may also be used once available in the future. Exhaust from each of these three engines (ENG01, ENG02, and ENG03) pass through a waste heat recovery boiler and then vented to atmosphere through their own pair of exhaust stacks (ENG1A AND ENG1B, ENG2A AND ENG2B, ENG3A AND ENG3B) respectively The engines may be operated in such a manner as to allow the plant to participate in New York State electrical demand reduction program.

The plant's two (2) waste gas burners (flares) burn the excess sludge digester gas. At times that the sludge digester gas produced at the plant is more than the demand of the plant's engines and boilers, the excess sludge digester gas will be burned at the two waste gas burners. The plant is replacing the the two existing waste sludge digester gas burners with two similar waste sludge



digester gas burners from the same manufacturer.

After the engine control improvements, three (3) Delaval Enterprise's dgsr-48 dual fuel engines each rated 3174 bhp will drive three 2250 kw generators without drawing any power from the utility grid under normal operating conditions while utilizing all of the available digester gas generated from the facility. The engines are currently permitted to operate on diesel fuel, digester gas and natural gas. The upgrade project will restore the natural gas system which has been in disrepair allowing DEP to supplement digester gas with natural gas rather than diesel oil, as is the current practice. In addition, the control improvements will allow the engines to meet NOx RACT limits for dual fuel engines and no longer require an alternative source-specific limit, under 6 NYCCR § 227-2.5.

Building(s): MAIN

Item 23.2(From Mod 2):

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

Emission Unit: 2-WWTRE

Emission Unit Description:

This emission unit consists of the plant's waste water treatment, sludge and residual handling processes. These processes include head works, primary settling tank, aeration, final settling, and chlorine contact. Except for the head works the other processes are all outdoors and in large tanks. One passive activated carbon system is connected to the headwork ventilation duct for H₂S control. Emissions from these processes depend on the concentrations of pollutants of concern in the plant's influent of which the plant does not have complete control. Emissions are based on currently available data.

Nine 55 gallon carbon drums used to treat the air from the primary settling tanks have been replaced with two 2,000 CFM carbon vessels, as an odor control measure.

This emission unit also consists of the plant's sludge handling processes. These processes include gravity thickening, sludge digestion, sludge storage tanks and sludge digester gas holding tank. Two activated carbon adsorber systems - each consists of four vessels installed at the gravity thickening process for H₂S odor carbon from June through October. A total of twenty (20) passive carbon canisters are installed at sludge digester tanks and storage tank for H₂S odor control purpose.

This emission unit also consists of the plant's grit and scum residual handling and removal processes within the



grit and scum building. An activated carbon adsorption vessel is installed to provide to the building ventilation air for H2S odor control from June through October. The grit scum building is undergoing a construction to be expanded and an additional carbon adsorption unit with exhaust stack is to be installed at the building.

Building(s): PRIMARY

Item 23.3(From Mod 0):

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

Emission Unit: M-TURB1

Emission Unit Description:

In order to continue pilot study of advanced clean power generation technology, the plant is planning to install up to three(3) 70 KW micro-turbine generators for research and development purposes. These micro-turbine generator emissions are considered insignificant as defined by 6 NYCRR Part 201-6.3d(7) and will burn the plant's sludge digester gas with utility natural gas back-up.

Building(s): OUTDOOR

Condition 25: Capping Monitoring Condition

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 25.1:

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

40 CFR 52.21

Item 25.2:

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

Item 25.3:

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 25.4:

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

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



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 25.5:

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 25.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 25.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility wide total annual CO emissions are limited to 225 tpy for any consecutive 12 month period.

Owls Head WPCP has submitted emissions data to the NYSDEC showing that actual annual emissions for the past 10 years (1998-2007) never exceeded the PSD major source of 250 tpy (actual annual emissions were not higher than 119 tons/year of CO). Based on this information, the facility has requested the NYSDEC to include permit limits to make the facility a minor PSD source (less than 250 tons/year). The NYSDEC is granting this request with the understanding that for the next 5 years Owls Head WPCP shall propose no modification at the facility that will once again make it a PSD major stationary source.

In the event that a proposed modification at the facility within the next 5 years would make the facility a PSD major stationary source again, the facility at that time, for purposes of PSD applicability, will be treated as if it is a PSD major stationary source before applying the increase from the proposed change.

Compliance with the 225 tpy CO emission cap is to be determined as follows:

$$ENG(0.689) + END(0.197) + BD(0.0357) + BDG(0.0095) + BNG(0.08) + EEG(0.729) + F(1.25) < 450,000 \text{ Lb}$$

where

ENG - Total engine dual operation heat input, mmbtu/yr



END - Total engine diesel fuel operation heat input ,
mmbtu/yr
BD- Total boiler diesel fuel operation heat input ,
mmbtu/yr
BDG- Total boiler digester gas fuel operation heat input ,
mmbtu/yr
BNG- Total boiler natural gas fuel operation heat input,
mmbtu/yr
EEG - Total emergency engine generator diesel heat input,
mmbtu/yr
F- Total sludge digester gas flare heat input,
mmbtu/yr.

The facility shall maintain all information necessary to calculate emission and make this information available upon request by the Department or general public.

Monitoring Frequency: MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 26: Capping Monitoring Condition
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 26.1:

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

40 CFR 52.21

Item 26.2:

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

Item 26.3:

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 26.4:

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

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



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 26.5:

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 26.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 26.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility wide total annual NOx emissions are limited to 225 tpy for any consecutive 12 month period.

Owls Head WPCP has submitted emissions data to the NYSDEC showing that actual annual emissions for the past 10 years (1998-2007) have been at levels less than the PSD major source status of 250 tons/year (actual annual emissions were not higher than 188 tons/year of NOx, the pollutant closest to the 250 tons/year PSD major source threshold). Based on this information, the facility has requested the NYSDEC to include permit limits to make the facility a PSD minor source (less than 250 tons/year). The NYSDEC is granting this request with the understanding that for the next 5 years Owls Head WPCP shall propose no modification at the facility that will once again make it a PSD major stationary source.

In the event that a proposed modification at the facility within the next 5 years would make the facility a PSD major stationary source again, the facility at that time, for purposes of PSD applicability, will be treated as if it is a PSD major stationary source before applying the increase from the proposed change.

Compliance with the 225 tpy NOX emission cap is to be determined as follows:

ENG(1.21) + END(2.83) + BD(0.143) + BDG (0.055) + BNG(0.0952) + EEG(3.35)+ F(0.067) < 450,000 pounds



where

ENG - Total engine dual operation heat input,
mmbtu/yr

END - Total engine diesel fuel operation heat input ,
mmbtu/yr

BD- Total boiler diesel fuel operation heat input ,
mmbtu/yr

BDG- Total boiler digester gas fuel operation heat input ,
mmbtu/yr

BNG- Total boiler natural gas fuel operation heat input,
mmbtu/yr

EEG - Total emergency engine generator diesel heat input
mmbtu/yr

F- Total sludge digester gas flare heat input ,
mmbtu/yr.

The facility shall maintain all information necessary to calculate emission and make this information available upon request by the Department or general public.

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2009.

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

Condition 27: Notification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 27.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 2-4: Air pollution prohibited
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 211.1

Item 2-4.1:

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

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



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 28: Compliance Certification

Effective between the dates of 02/05/2009 and 02/04/2014

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

Item 28.1:

The Compliance Certification activity will be performed for the Facility.

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.2 percent by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2009.

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

Condition 29: Compliance Certification

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 225-1.8

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility which purchases and fires coal and/or fuel oil shall compile and retain



records of the following information:

- a. fuel analyses and data on the quantities of all residual and distillate oil and coal received, burned or sold;
- b. the names of all purchasers of all residual and distillate oil and coal sold;
- c. any results of stack sampling, stack monitoring and other procedures used to ensure compliance with the provisions of 6 NYCRR Part 225-1.

Fuel analyses must contain, as a minimum, data on the sulfur content, specific gravity and heating value of any residual oil, distillate oil or coal received, burned or sold. Ash content shall also be included in the fuel analyses for any residual oil or coal received, burned or sold.

These records shall be retained for a minimum period of three years. If the facility is subject to Title V requirements the minimum record retention period shall be five years. The records shall be made available for inspection by department staff during normal business hours. In addition, copies of such records shall be furnished to department staff upon request. All required sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2009.

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

Condition 30: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

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

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

| | |
|--|---|
| Emission Unit: 1-COMBU Process: DIE | Emission Point: ENG1A Emission Source: ENG01 |
| Emission Unit: 1-COMBU Process: DIE | Emission Point: ENG1B Emission Source: ENG01 |
| Emission Unit: 1-COMBU | Emission Point: ENG2A |

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



Process: DIE Emission Source: ENG02

Emission Unit: 1-COMBU Emission Point: ENG2B
Process: DIE Emission Source: ENG02

Emission Unit: 1-COMBU Emission Point: ENG3A
Process: DIE Emission Source: ENG03

Emission Unit: 1-COMBU Emission Point: ENG3B
Process: DIE Emission Source: ENG03

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

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

At the monitoring frequency stated below the facility shall perform the following:

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 31: Existing Non-Industrial POTW Treatment Plants
Effective between the dates of 02/05/2009 and 02/04/2014**



Applicable Federal Requirement:40CFR 63.1586, Subpart VVV

Item 31.1:

40CFR63 Subpart VVV imposes no control requirements for existing non-industrial POTW treatment plants.

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

**Condition 32: Emission Point Definition By Emission Unit
Effective between the dates of 02/05/2009 and 02/04/2014**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 32.1(From Mod 2):

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

Emission Unit: 1-COMBU

Emission Point: ENG1B
Height (ft.): 50 Diameter (in.): 20
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Emission Point: ENG1A
Height (ft.): 50 Diameter (in.): 20
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Emission Point: ENG2A
Height (ft.): 50 Diameter (in.): 20
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Emission Point: ENG2B
Height (ft.): 50 Diameter (in.): 20
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Emission Point: ENG3A
Height (ft.): 50 Diameter (in.): 20
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Emission Point: ENG3B
Height (ft.): 50 Diameter (in.): 20
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Emission Point: FLAR1
Height (ft.): 36 Diameter (in.): 29
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: SLUDGE

Emission Point: FLAR2
Height (ft.): 36 Diameter (in.): 29
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: SLUDGE



Item 32.2(From Mod 0):

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

Emission Unit: 2-WWTRE

- Emission Point: GSBS1
Height (ft.): 22 Length (in.): 36 Width (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733
- Emission Point: GSBS2
Height (ft.): 24 Diameter (in.): 24
NYTMN (km.): 4499.535 NYTME (km.): 581.683
- Emission Point: PSTCA
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.588 NYTME (km.): 581.739 Building: PRIMARY
- Emission Point: PSTCB
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.588 NYTME (km.): 581.739 Building: PRIMARY
- Emission Point: PSTCC
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: PRIMARY
- Emission Point: PSTCD
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: PRIMARY
- Emission Point: PSTCE
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: PRIMARY
- Emission Point: PSTCF
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: PRIMARY
- Emission Point: PSTCG
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: PRIMARY
- Emission Point: PSTCH
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: PRIMARY
- Emission Point: PSTCI
Height (ft.): 5 Diameter (in.): 24
NYTMN (km.): 4499.535 NYTME (km.): 581.683 Building: PRIMARY
- Emission Point: SGTS1
Height (ft.): 34 Diameter (in.): 66
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: SLUDGE

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



Emission Point: SGTS2
Height (ft.): 34 Diameter (in.): 66
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: SLUDGE

Emission Point: WWELL
Height (ft.): 34 Diameter (in.): 10
NYTMN (km.): 4499.623 NYTME (km.): 581.733 Building: MAIN

Condition 33: Process Definition By Emission Unit
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 33.1(From Mod 2):

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

Emission Unit: 1-COMBU
Process: DUA Source Classification Code: 2-02-004-02
Process Description:

This process is the engines' primary operation mode. Under this process, the engines fire dual fuel (sludge digester gas with diesel oil as pilot fuel). Natural gas may also be used once available in future. At all times, at the least one engine is kept off line for standby purposes. The annual total thruput is determined for two engines in operation.

These engines drive three 2250 kw generators which provide power to sewage pumps and process air blowers. The engines may be operated in such a manner as to allow the plant to participate in New York State electrical demand reduction program.

Exhaust from each of these three engines (ENG01, ENG02, and ENG03) pass through a waste heat recovery boiler and then vented to atmosphere through their own pair of exhaust stacks (ENG1A AND ENG1B, ENG2A AND ENG2B, ENG3A AND ENG3B) respectively

Under the engine control improvements, the three engine automation sub-systems will be upgraded with the latest version of the "hyper-logic" dual fuel engine automation system, as offered by Hoerbiger Engineering Services or an approved equal design according to specifications developed during preparation of bid documents (design phase). The control improvement work will consist of all removals, installation, design engineering, programming, factory testing, field-testing, and installation as necessary to place into operation a complete state-of-the-art engine automation and fueling system that provides for engine operation with a reduced amount of

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



diesel pilot fuel. The automation system will be fully integrated with and equipped for control of the new electronic fuel injection system and gas controls systems. The control improvements will increase engine fuel efficiency and reduce diesel fuel usage.

Emission Source/Control: ENG01 - Combustion
Design Capacity: 3,174 horsepower (mechanical)

Emission Source/Control: ENG02 - Combustion
Design Capacity: 3,174 horsepower (mechanical)

Emission Source/Control: ENG03 - Combustion
Design Capacity: 3,174 horsepower (mechanical)

Item 33.2(From Mod 2):

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

Emission Unit: 2-WWTRE

Process: PST

Source Classification Code: 5-01-007-20

Process Description:

This process is the plant's wastewater primary settling (PST) process. This process includes four primary settling tanks. Primary settling operation is a process in which the solid particles carried in raw sewage are removed by gravity under quiescent conditions in the primary settling tanks. In addition, the primary settling tanks are used to separate and remove floating materials and scum. Solids and grit collected in the tanks are removed as a thin sludge by continuous pumping to cyclone digritters. Each primary settling tank is equipped with sludge collectors, dipping weirs, scum removal equipment, inlet sluice gates overflow weirs. The total thruput is based on dry weather flow.

Nine (9) 55-gallon drums of activated carbon drums to treat the air from the primary settling tanks have been replaced with two (2) 2,000 CFM carbon vessels, as an odor control measure.

Emission Source/Control: NPTC1 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NPTC2 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: PRITK - Process
Design Capacity: 120,000,000 gallons per day

Item 33.3(From Mod 0):

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



Emission Unit: 1-COMBU
Process: DDP Source Classification Code: 4-06-006-51
Process Description:

This process is the plant's two ground level diesel dispensing pumps located by the main building. Each pump has a 1000 gallon underground tank that is exempted.

Emission Source/Control: DPUMP - Process

Item 33.4(From Mod 0):

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

Emission Unit: 1-COMBU
Process: DIE Source Classification Code: 2-02-004-01
Process Description:

This process is a supplemental operation mode to the process DUA. When the engines can't be operated on dual fuel mode, these engines will fire 100% diesel. At all times, at least one engine is kept off-line for standby purposes. The annual total thruput is determined for two engines in operation. These engines drive three 2250 kw generators which provide power to sewage pumps and process air blowers. The engines may be operated in such a manner as to allow the plant to participate in New York state electrical demand reduction program. Exhaust from each of these three engines (ENG01, ENG02, and ENG03) pass through a waste heat recovery boiler and then vented to atmosphere through their own pair of exhaust stacks (ENG1A AND ENG1B, ENG2A AND ENG2B, ENG3A AND ENG3B) respectively.

Emission Source/Control: ENG01 - Combustion
Design Capacity: 3,174 horsepower (mechanical)

Emission Source/Control: ENG02 - Combustion
Design Capacity: 3,174 horsepower (mechanical)

Emission Source/Control: ENG03 - Combustion
Design Capacity: 3,174 horsepower (mechanical)

Item 33.5(From Mod 0):

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

Emission Unit: 1-COMBU
Process: FLA Source Classification Code: 5-01-007-89
Process Description:

This process is the plant's two waste sludge digester gas burners. At times the sludge digester gas produced at the plant is more than the demand of the plant's engines and boilers. The excessive sludge digester gas will be burned at either of the two waste digester gas burners (WGBR1 and WGBR2) and exhausted through their own stacks (FLAR1 and



FLAR2).

Emission Source/Control: WDGB1 - Combustion
Design Capacity: 347 cubic feet per minute

Emission Source/Control: WDGB2 - Combustion
Design Capacity: 347 cubic feet per minute

Item 33.6(From Mod 0):

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

Emission Unit: 2-WWTRE
Process: ART Source Classification Code: 5-01-007-31
Process Description:

This is the plant's wastewater diffused air activated sludge aeration (ART) secondary treatment process. This process includes four diffused air activated sludge aeration tanks (AERTK). In this process, the effluent from the primary settling treatment section is mixed with activated sludge solids and air. These aeration tanks provide the detention time required for the activated sludge to absorb the organic matter in the wastewater. Compressed air is discharged through the tanks to provide mixing and an aerobic environment. After a set mixing period, the mixture flows to the final settling tanks, where the solids are flocculated, settled and collected. Each of these aeration tanks has four "passes". The total thruput is based on dry weather flow.

Emission Source/Control: AERTK - Process
Design Capacity: 120,000,000 gallons per day

Item 33.7(From Mod 0):

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

Emission Unit: 2-WWTRE
Process: CCT Source Classification Code: 5-01-007-60
Process Description:

This is the plant's chlorine contact (CCT) disinfection process. This process includes two chlorine contact tanks. The wastewater from the final settling tanks flows to the chlorine contact tanks where sodium hypochlorite is added into the wastewater to destroy and kill the harmful disease-causing organisms and thereby to protect the receiving waters. The total thruput is based on dry weather flow.

Emission Source/Control: CHLTK - Process
Design Capacity: 120,000,000 gallons per day

Item 33.8(From Mod 0):

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



Emission Unit: 2-WWTRE
Process: FST Source Classification Code: 5-01-007-40

Process Description:
This is the plant's final settling (FS) process. This process includes sixteen final settling tanks. The purpose of this final settling process is two fold; settle out microorganisms and activated sludge solid waste generated during the aeration process to produce a clarified effluent, and to collect the settled activated sludge for conveyance back to the aeration tanks. The total thruput is based on dry weather flow.

Emission Source/Control: FINTK - Process
Design Capacity: 120,000,000 gallons per day

Item 33.9(From Mod 0):

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

Emission Unit: 2-WWTRE
Process: GHT Source Classification Code: 5-01-007-99

Process Description:
This process is the plant's sludge digester gas holding tank (GHT) operation consisting of one (1) sludge digester gas holding tank (GASTK). Digester gas produced in the sludge anaerobic digester tanks will be stored in these tanks for later use at combustion units.

Emission Source/Control: GASTK - Process
Design Capacity: 10,000 cubic feet

Item 33.10(From Mod 0):

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

Emission Unit: 2-WWTRE
Process: GSB Source Classification Code: 5-01-007-99

Process Description:
This is the plant's grit and scum handling process (GSB) which consists of the grit and scum handling process in the residual and scum building (GSBL). An activated carbon adsorption unit (GSBC1), which exhausts through its own stack (GSBS1), is installed at the building for H2S odor control purpose. The grit scum building is undergoing construction to be expanded and an additional carbon adsorption unit (GSBC2) with exhaust stack (GSBS2) is to be installed at the building.

Emission Source/Control: GSBC1 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: GSBC2 - Control
Control Type: ACTIVATED CARBON ADSORPTION



Emission Source/Control: GSBLD - Process

Item 33.11(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: PHW

Source Classification Code: 5-01-007-07

Process Description:

This process is the plant's pretreatment head works (PHW) process including four bar screening chambers (SCREEN) and influent wet well (WWELL). The bar screens consist of upright bars spaced one to three inches apart. The primary purpose of the bar screening is to remove large pieces of trash (rags, sticks, newspapers, cans, etc) for the protection of the main sewage pumps and other equipment.

A passive activated carbon adsorption unit (WWLOC) is connected to the influent wet well ventilation duct and the total thruput is based on dry weather flow.

Emission Source/Control: WWLOC - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SCREN - Process

Design Capacity: 120,000,000 gallons per day

Emission Source/Control: WWELL - Process

Design Capacity: 120,000,000 gallons per day

Item 33.12(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SAD

Source Classification Code: 5-01-007-81

Process Description:

This process is the plant's sludge anaerobic digesters (SAD) operation consisting of six cone sludge digester tanks (SADTK). After sludge gravity thickening, making it safer for the environment, the sludge is placed in oxygen-free tanks called digesters. Digesters are heated to at least 95° for between 15-20 days stimulating the growth of anaerobic bacteria which consume organic material in the sludge. In the digesters, sludge is converted into water, carbon dioxide and methane gas. The methane gas is often used as an energy source to operate boilers. Relief valve from each of these digester tanks splits into two 50-gallon canisters filled with activated carbon for H₂S odor control.

Emission Source/Control: SADTK - Process



Design Capacity: 66,978 cubic feet

Item 33.13(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SGT

Source Classification Code: 5-01-007-71

Process Description:

This process is the plant's sludge gravity thickening (SGT) operation consisting of four (4) sludge gravity thickener tanks (SGTTK). The primary and final settling tanks' sludge (approximately 99% water) is concentrated in these gravity thickening tanks. The water is sent back to the head of the plant or aeration tanks for additional treatment. Odor emissions from this equipment and ventilation are ducted to two odor control systems (SGTC1 and SGTC2) each with four carbon vessels located in the sludge complex and exhausted through their own stacks (SGTS1 and SGTS2).

Emission Source/Control: SGTC1 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SGTC2 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SGTTK - Process

Design Capacity: 10,500 cubic feet

Item 33.14(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SST

Source Classification Code: 5-01-007-99

Process Description:

This process is the sludge storage tanks (SST) process consisting of two sludge storage tanks (DSSTK). Excessive sludge will be stored in these storage tanks. Exhaust from each of these tanks splits into two activated carbon adsorption systems; each has two 50-gallon canisters (a total of 8 canisters) filled with activated carbon for H₂S odor control.

Emission Source/Control: DSSTK - Process

Design Capacity: 135,550 cubic feet

Item 33.15(From Mod 0):

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

Emission Unit: M-TURB1

Process: MTB

Source Classification Code: 2-02-004-02

Process Description:



In order to continue on pilot studying of advance clean power generation technology, the plant is planning to install up to three(3) 70 KW micro-turbine generators for research and development purposes. These micron- turbine generators are considered exempt sources as defined by 6 NYCRR Part 201-6.3(d)(7) and will burn the plant's sludge digester gas, with utility natural gas back-up.

Emission Source/Control: MTUR1 - Combustion
Design Capacity: 70 kilowatts

Emission Source/Control: MTUR2 - Combustion
Design Capacity: 70 kilowatts

Emission Source/Control: MTUR3 - Combustion
Design Capacity: 70 kilowatts

Condition 2-5: Emission Unit Permissible Emissions
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2-5.1:

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: 1-COMBU

CAS No: 0NY210000 (From Mod 2)
Name: OXIDES OF NITROGEN
PTE(s): 354,600 pounds per year

Condition 34: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 34.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall follow manufactures recommended maintenance procedures for the engines. Records of the maintenance must be kept at the facility for at least five years.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 35: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 35.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The Facility is restricted to operating only 2 of the 3 engines described in emission unit 1-ENGIN at any one time. In the event that it becomes necessary to bring a 3rd engine on-line, the facility must notify NYSDEC and submit potential to emit (PTE) calculations for review.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 2-6: Capping Monitoring Condition
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2-6.1:

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

6 NYCRR Subpart 231-6

Item 2-6.2:

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



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

Item 2-6.3:

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

Item 2-6.4:

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

Item 2-6.5:

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

Item 2-6.6:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

Item 2-6.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Annual PM 2.5 emissions from this Emission Unit 1-COMBU is limited to 6.1 tons per year. The total actual PM2.5 emissions shall be determined by using fuel consumption at each source listed in this emission unit and approved emission factors or most recent stack test emission data. All records shall be kept at the facility for a minimum of five years.

Parameter Monitored: PM 2.5

Upper Permit Limit: 6.1 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



The initial report is due 7/30/2012.
Subsequent reports are due every 6 calendar month(s).

Condition 2-7: Capping Monitoring Condition
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2-7.1:

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

6 NYCRR Subpart 231-6

Item 2-7.2:

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

Item 2-7.3:

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 2-7.4:

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 2-7.5:

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 2-7.6:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 2-7.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



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

Monitoring Description:

Annual VOC emissions from this Emission Unit 1-COMBU is limited to 17.1 tons per year. The total actual VOC emissions shall be determined by using fuel consumption at each source listed in this emission unit and approved emission factors or most recent stack test emission data. All records shall be kept at the facility for a minimum of five years.

Parameter Monitored: VOC

Upper Permit Limit: 17.1 tons per year

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 7/30/2012.

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

Condition 2-8: Capping Monitoring Condition
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2-8.1:

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

6 NYCRR Subpart 231-6

Item 2-8.2:

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

Item 2-8.3:

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 2-8.4:

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.

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



Item 2-8.5:

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 2-8.6:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Regulated Contaminant(s):

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

Item 2-8.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Annual NOX emissions from this Emission Unit 1-COMBU is limited to 177.3 tons per year. The actual NOx emissions shall be determined by using fuel consumption at each source listed in this emission unit and approved emission factors or most recent stack test emission data. All records shall be kept at the facility for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 177.3 tons per year

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 7/30/2012.

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

Condition 36: Compliance Certification

Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 36.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



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

- 1) Observe the stack for each internal combustion engine 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:
 - weather condition
 - was a plume observed?

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) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. 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: DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.



The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 41: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

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

Item 41.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Item 41.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: ANNUALLY

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 7/30/2009.

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

Condition 37: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 227-2.5 (c)

Item 37.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Regulated Contaminant(s):

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

Item 37.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As per the compliance plan dated June 29, 2004, NYCDEP must continue to investigate NOx control technologies. NYCDEP must provide the Department reports on the progress of the investigations and may conduct pilot testing only with Department's approval.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2009.

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

Condition 38: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 227-2.5 (c)

Item 38.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Process: DIE

Regulated Contaminant(s):

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As per NYC DEP's variance request for NOx RACT limit in their compliance plan dated June 29, 2004, until NYCDEP finds a feasible control technology or an alternate option to meet the NOx RACT limit for their engines, the NOx emissions verified during the stack test on 10/3/2005 shall be set forth as the alternative emission permit limit for each engine.

Alternative emission limit for three engines, ENG01, ENG02 and ENG03 when burning 100% diesel must not be greater than 6.05 grams/bhp-hr.

Stack testing once during the permit is required to demonstrate compliance with the permit limit. Stack test protocol must be submitted to the Department for approval prior to testing.

Upper Permit Limit: 6.05 grams per brake horsepower-hour



Reference Test Method: 40 CFR
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement: 6 NYCRR 227-2.5 (c)

Item 39.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU
Process: DUA

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As per NYC DEP's variance request for NO_x RACT limit in their compliance plan dated June 29, 2004, until NYCDEP finds a feasible control technology or an alternate option to meet the NO_x RACT limit for their engines, the NO_x emissions verified during the most recent stack test on 10/3/2005 shall be set forth as the alternative emission permit limit for each engine.

Alternative emission limit for three engines, ENG01, ENG02 and ENG03 when burning dual fuel (95% Digester Gas/5% Diesel Oil) must not be greater than 3.16 grams/bhp-hr.

Stack testing once during the permit is required to demonstrate compliance with the permit limit. Stack test protocol must be sent to Department for approval prior to testing.

Upper Permit Limit: 3.16 grams per brake horsepower-hour
Reference Test Method: 40 CFR
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR Part 212

Item 40.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU
Process: FLA

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility shall maintain a daily log of digester gas produced, and burned.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2009.

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

Condition 42: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Item 42.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: FLAR1
Process: FLA Emission Source: WDGB1

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions when the process is in operation. If any

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Method 9
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 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 43.1:
The Compliance Certification activity will be performed for:

| | |
|------------------------|------------------------|
| Emission Unit: 1-COMBU | Emission Point: FLAR2 |
| Process: FLA | Emission Source: WDGB2 |

Item 43.2:
Compliance Certification shall include the following monitoring:

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

Monitoring Description:
No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions when the process is in operation. If any visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Method 9
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 7/30/2009.

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



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

Condition 44: Compliance Certification
Effective between the dates of 02/05/2009 and 02/04/2014

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

Item 44.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-TURB1

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall operate and perform maintenance on the three micro-turbine generators as recommended by the manufacturer. The records of the operation hours, digester gas usage and maintenance performed shall be kept at the facility for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2010.

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

Condition 45: Contaminant List
Effective between the dates of 02/05/2009 and 02/04/2014

Applicable State Requirement:ECL 19-0301

Item 45.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

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



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

CAS No: 0NY075-02-5
Name: PM 2.5

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

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

Condition 2-9: Unavoidable noncompliance and violations
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable State Requirement:6 NYCRR 201-1.4

Item 2-9.1:

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

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

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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



malfunction and the air contaminants emitted.

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

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

Condition 2-10: Visible Emissions Limited
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable State Requirement:6 NYCRR 211.2

Item 2-10.1:

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 2-11: Compliance Demonstration
Effective between the dates of 02/27/2012 and 02/04/2014

Applicable State Requirement:6 NYCRR 227-2.4 (f) (3)

Item 2-11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU
Process: DUA

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

Item 2-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies after the completion of proposed engine control improvements.

Engine NOx emissions in this process(gas with a

New York State Department of Environmental Conservation

Permit ID: 2-6102-00005/00017

Facility DEC ID: 2610200005



combination of diesel oil) shall be limited to 2.3 grams per brake horsepower-hour.

The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

Upper Permit Limit: 2.3 grams per brake horsepower-hour

Reference Test Method: EPA AP 42

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

