



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6107-00004/00017  
Effective Date: 01/22/2016 Expiration Date: 01/21/2021

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION  
96-05 HORACE HARDING EXPY FL 5  
CORONA, NY 11368

Contact: JOHN G PETITO, JR  
NYC DEP  
96-05 HORACE HARDING EXPY FL 2  
CORONA, NY 11368  
(718) 595-4906

Facility: CONEY ISLAND WASTEWATER TREATMENT PLANT  
2591 KNAPP ST  
BROOKLYN, NY 11235

Contact: DIANE HAMMERMAN  
NYC DEP BWT  
96-05 HORACE HARDING EXPY FL 2  
CORONA, NY 11368  
(718) 595-4965

**Description:**

This is a permit application for renewal of the Coney Island Wastewater Treatment Plant (WWTP) Part 201 Air Title V Facility Permit. The existing Title V Air Permit will expire on 10/21/2015.

This Application includes the following updates to the existing Title V Permit Mod 2:

1. Addition of a new dechlorination process to the Coney Island WWTP's existing chlorination process. This proposed dechlorination process is required to meet the WWTP's State Pollutant Discharge Elimination System (SPDES) Permit's new Total Residual Chlorine (TRC) limit of 0.64 mg/L.
2. Replacement of the control system of the WWTP's four existing Delaval 2246HP engines in order to improve the continued maintenance and reliability of the engines. DEP informed DEC of this project in a letter dated August 26, 2014. As of April 2015, the engine control replacement project was cancelled and DEP will perform some other engine work which will prevent future control failure resulting in loss of emergency power at the WWTP
3. Evaluation of the WWTP's three existing 25.1 mmBtu/hr Cleaver-Brooks CB200-600 hot water boilers compliance with the 6 NYCRR Part 227-2 Reasonably Available Control Technology for Oxides of Nitrogen Analysis. DEP had previously proposed to de-rate these boilers in order to reduce the maximum input capacity to less than 25 mmBtu/hr, as submitted to



DEC on December 30, 2011. After numerous meetings with the boilers manufacturer, DEP engineers determined that de-rating the boilers would significantly affect the WWTP's normal operations, and that the best option would be to upgrade the boilers by replacing the burners with low emission burners and modern controls. DEP engineers performed an economic analysis to determine if the upgrade and replacement work would be economically feasible. The results showed that the Total Cost of Controls Per Ton of NOx Reduced was determined to be \$9,863 exceeding the adjusted 2015 economic standard of \$4,751 per ton following the calculations in DEC's DAR-20 Economic and Technical Analysis for Reasonably Available Control Technology (RACT) guideline.

DEP therefore respectfully requests that DEC set a higher emission source specific emission limit pursuant to 6 NYCRR § 227-2.5(c) for these three boilers, as compliance with the NOx emission limit in 6 NYCRR § 227-2.4(c) is not economically feasible

As of 8/12/2015, Boilers - revert back to de-rating the boilers below 25 mmBtu/hr, 2. Nox RACT waiver for boilers (as submitted in the application) is cancelled.. 3. Small boilers annual tune is added.

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:           STEPHEN A WATTS  
  47-40 21ST ST  
  LONG ISLAND CITY, NY 11101-5401

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

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

**Item B: Permittee's Contractors to Comply with Permit**

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

**Item C: Permittee Responsible for Obtaining Other Required Permits**

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

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

**Facility Level**

- Submission of application for permit modification or renewal -  
REGION 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 prior to actual transfer of ownership.

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

**Item 4.1:**

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

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

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of application for permit modification or renewal - REGION 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) 482-4997

**New York State Department of Environmental Conservation**

Permit ID: 2-6107-00004/00017

Facility DEC ID: 2610700004



**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 EXPY FL 5  
CORONA, NY 11368

Facility: CONEY ISLAND WASTEWATER TREATMENT PLANT  
2591 KNAPP ST  
BROOKLYN, NY 11235

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

Permit Effective Date: 01/22/2016

Permit Expiration Date: 01/21/2021



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
  - 2 6 NYCRR 201-6.4 (a) (7): Fees
  - 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
  - 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
  - 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
  - 6 6 NYCRR 201-6.4 (e): Compliance Certification
  - 7 6 NYCRR 202-2.1: Compliance Certification
  - 8 6 NYCRR 202-2.5: Recordkeeping requirements
  - 9 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 201-6.4 (a) (4): Requirement to Provide Information
  - 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
  - 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
  - 18 6 NYCRR 202-1.1: Required Emissions Tests
  - 19 40 CFR Part 68: Accidental release provisions.
  - 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
  - 21 6 NYCRR Subpart 201-6: Emission Unit Definition
  - 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
  - 23 6 NYCRR 211.1: Air pollution prohibited
  - 24 6 NYCRR 225.1 (a) (3): Compliance Certification
  - 25 6 NYCRR 225.7 (a): Compliance Certification
- #### Emission Unit Level
- 26 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
  - 27 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

#### EU=1-COMBU

- 28 6 NYCRR 227-2.5 (c): Compliance Certification
- 29 6 NYCRR 227-2.5 (c): Compliance Certification
- 30 6 NYCRR 227.2 (b) (1): Compliance Certification

#### EU=1-COMBU,Proc=BDS,ES=BLR01

- 31 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification

#### EU=1-COMBU,Proc=BDS,ES=BLR02

- 32 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification

#### EU=1-COMBU,Proc=BDS,ES=BLR03

- 33 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification





**EU=1-COMBU,EP=BLERS**

- 34 6 NYCRR 227-1.3: Compliance Certification
- 35 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=1-COMBU,EP=ENG01**

- 36 6 NYCRR 227-1.3: Compliance Certification
- 37 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=1-COMBU,EP=ENG02**

- 38 6 NYCRR 227-1.3: Compliance Certification
- 39 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=1-COMBU,EP=ENG03**

- 40 6 NYCRR 227-1.3: Compliance Certification
- 41 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=1-COMBU,EP=ENG04**

- 42 6 NYCRR 227-1.3: Compliance Certification
- 43 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=1-COMBU,EP=FLAR1**

- 44 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=1-COMBU,EP=FLAR2**

- 45 6 NYCRR 227-1.3 (a): Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 46 ECL 19-0301: Contaminant List
- 47 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 48 6 NYCRR 211.2: Visible Emissions Limited
- 49 6 NYCRR 211.2: Compliance Demonstration



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

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

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

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner 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 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 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 201-6.2 (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 201-6.2 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (a) (6)**

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



**Item I: Severability - 6 NYCRR 201-6.4 (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 201-6.4 (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 201-6.4 (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 01/22/2016 and 01/21/2021**

**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: Fees**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)**

**Item 2.1:**

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 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (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 201-6.2 of Part 201.

**Condition 4: Records of Monitoring, Sampling, and Measurement  
Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (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 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (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 201-6.2(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 may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 6: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (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 record keeping 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.

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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 annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section  
USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer  
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 7/30/2016.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 202-2.1**

**Item 7.1:**

The Compliance Certification activity will be performed for the Facility.

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**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 01/22/2016 and 01/21/2021**

**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 9: Open Fires - Prohibitions  
Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 9.1:**

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 9.2**

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 01/22/2016 and 01/21/2021**

**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 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 11.1:**

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

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**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 01/22/2016 and 01/21/2021**

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

**Item 13.1:**

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

**Condition 14: Trivial Sources - Proof of Eligibility**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 14.1:**

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

**Condition 15: Requirement to Provide Information**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (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: Right to Inspect**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (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: Off Permit Changes**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (f) (6)**

**Item 17.1:**

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.

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(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 201-6.4 shall not apply to any change made pursuant to this paragraph.

**Condition 18: Required Emissions Tests**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 202-1.1**

**Item 18.1:**

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 19: Accidental release provisions.**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:40 CFR Part 68**

**Item 19.1:**

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 20: Recycling and Emissions Reduction**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:40CFR 82, Subpart F**





**Item 20.1:**

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 21: Emission Unit Definition**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 21.1:**

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 WWTP's following combustion equipment processes.  
The plant has four (4) Delaval (enterprise's) DGSR-46 internal combustion engines each rated 2246 Hp. These engines are dual fuel powered and are capable to operate with gaseous fuels (digester gas, natural gas, or blend) with #2 ULSD as pilot fuel, or 100% #2 ULSD. These engines drive generators (each rated 2000KVA @ 0.80 power factor) which provide power to sewage pumps and process air blowers. Exhaust from engines are passed through a waste heat recovery boiler and then vented to atmosphere through a stack. Among these four (4) engines there will always be one engine as standby. The engines may be operated in such a manner as to allow the WWTP to participate in New York State electrical demand reduction program.

The WWTP has three (3) Cleaver Brooks, CB 200-600 hot water boilers each rated at 25.1 mmBtu/hr. These boilers are capable of firing natural gas, digester gas, or a blend of natural gas and digester gas, and diesel fuel. There will be always one boiler on standby. DEP engineers evaluated the compliance options with the boilers manufacturer and found that the WWTP's best option would be to upgrade the boilers by replacing the burners with low emission burners and modern controls. DEP engineers performed an economic analysis and determined that the upgrade and replacement work is not economically feasible. DEP respectfully requests that DEC set a higher emission source specific emission limit pursuant to 6 NYCRR § 227-2.5(c) for these three boilers, as compliance with the NOx emission limit in 6 NYCRR § 227-2.4(c) is not economically feasible.



The WWTP also has two (2) waste gas burners to flare excess digester gas. One (1) gasoline dispensing unit with a 550 gal gasoline storage tank and one (1) diesel dispensing unit with a 550 gal biodiesel storage tank. The gasoline/diesel dispensing units are currently in operation. One (1) 125 KW emergency engine generator for lighting during power emergency.

On 8/14/15, DEP informed that boilers will not be de-rated now and will be upgraded with low NOx emission control to meet the NOx RACT for mid-size boilers.

Building(s): GASSTATION  
PMPWRHSE  
SLUDGE

**Item 21.2:**

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

Emission Unit: 2-WWTRE

Emission Unit Description:

This wastewater treatment processes unit consists of headworks, primary settling, PST influent channels, mixed liquor channels, aeration, final settling, and chlorination. The headworks include screens, wet well and grit removal tanks. The odorous compounds from screens located in a multi-story building are passed through an odor control system composed of four wet scrubbers. After screening, the wastewater passes through four grit removal tanks. The odorous compounds from these operations are passed through four wet scrubbers located in the sludge degritter building. All these wet scrubbers have individual stacks. After the grit removal tanks, the wastewater flows through the influent channels to the primary settling tanks.

The primary settling process odor control system is modified to combine the channel odor control system with the tank cover odor control system. The odorous compounds from the influent and mixed liquor channels mix with the PSTs collected air stream, all of which are ducted to a two stage odor control system. The modified PSTs and channels odor control system consists of three scrubbers (12 foot diameter) and eleven dual bed carbon absorbers.

The wastewater next proceeds to the aeration tanks. A battery of six wet scrubbers with individual stacks is provided to control the odorous compounds from the aeration tanks enclosure building. Normally, four (4) wet scrubbers are in operation. From the aeration tank, the



mixed liquor goes to final settling and then proceeds through final chlorination and then to the outfall structure. Emissions from these processes depend on the concentration of pollutants of concern in the WWTP's influent, which the WWTP does not have control of. Therefore, the emissions are based on currently available data.

This unit also includes the WWTP's sludge handling processes which consist of the return activated sludge (RAS) wet well, secondary screens, sludge thickeners, sludge digesters, over-flow boxes, digester gas storage tank, and sludge storage tanks. The existing odor control system consisting of three wet scrubbers handles the odorous compounds from RAS wet well, secondary screens, and thickeners. One carbon absorber is installed at the recycle flow pump station building and another portable carbon absorber vessel is installed at the Digester building overflow box for odor control.

As part of the WWTP's upgrade plan, DEP is going to install a new dechlorination process at the Coney Island WWTP. This proposed dechlorination process will be located in a new dechlorination facility which will consist of two 7,500-gallon sodium bisulfite storage tanks, diaphragm metering pumps, one 1,000 gallon emergency sodium bisulfite storage tank, and a control room constructed in an approximately 32 ft wide by 46 ft long by 30 ft tall brick building. Each sodium bisulfite storage tank will be connected with a permanganate impregnated alumina based media for treating potential Sulfur Dioxide off-gas. Installation of this proposed dechlorination facility is required to meet the new TRC limit of 0.64 mg/L that is included in the WWTP's SPDES permit.

Building(s): AERATION  
CHLORINE  
DB  
DEGRIT  
FINAL  
GRITREM  
PRIMARY  
PST  
RSPSB  
SCREEN  
SLUDGE  
THB

**Condition 22: Progress Reports Due Semiannually**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (d) (4)**



**Item 22.1:**

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 23: Air pollution prohibited**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 23.1:**

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

**Condition 24: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 225.1 (a) (3)**

**Item 24.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any distillate oil which has sulfur content greater than 0.20 percent by weight. 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: 0.20 percent by weight



Monitoring Frequency: PER DELIVERY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 25: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 225.7 (a)**

**Item 25.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: PER DELIVERY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

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

**Condition 26: Emission Point Definition By Emission Unit**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 26.1:**

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

Emission Unit: 1-COMBU

Emission Point: BLERS

Height (ft.): 76

Diameter (in.): 39

NYTMN (km.): 4493.823

NYTME (km.): 590.333

Building: PMPPWRHSE

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Emission Point: ENG01  
Height (ft.): 51 Diameter (in.): 24  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PMPPWRHSE

Emission Point: ENG02  
Height (ft.): 51 Diameter (in.): 24  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PMPPWRHSE

Emission Point: ENG03  
Height (ft.): 51 Diameter (in.): 24  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PMPPWRHSE

Emission Point: ENG04  
Height (ft.): 51 Diameter (in.): 24  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PMPPWRHSE

Emission Point: FLAR1  
Height (ft.): 60 Diameter (in.): 8  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: SLUDGE

Emission Point: FLAR2  
Height (ft.): 60 Diameter (in.): 8  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: SLUDGE

**Item 26.2:**

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

Emission Unit: 2-WWTRE

Emission Point: AER01  
Height (ft.): 43 Diameter (in.): 36  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: AERATION

Emission Point: AER02  
Height (ft.): 43 Diameter (in.): 36  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: AERATION

Emission Point: AER03  
Height (ft.): 43 Diameter (in.): 36  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: AERATION

Emission Point: AER04  
Height (ft.): 45 Diameter (in.): 36  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: AERATION

Emission Point: AER05  
Height (ft.): 45 Diameter (in.): 36  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: AERATION

Emission Point: AER06  
Height (ft.): 45 Diameter (in.): 36  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: AERATION



Emission Point: BISA  
Height (ft.): Length (in.): Width (in.):  
NYTMN (km.): 4493.307 NYTME (km.): 590.586 Building: DECHLO

Emission Point: BISAB  
Height (ft.): Length (in.): Width (in.):  
NYTMN (km.): 4493.307 NYTME (km.): 590.586 Building: DECHLO

Emission Point: BISAC  
Height (ft.): Length (in.): Width (in.):  
NYTMN (km.): 4493.307 NYTME (km.): 590.586 Building: DECHLO

Emission Point: GRIT1  
Height (ft.): 69 Diameter (in.): 48  
NYTMN (km.): 4493.832 NYTME (km.): 590.333 Building: DEGRIT

Emission Point: GRIT2  
Height (ft.): 69 Diameter (in.): 48  
NYTMN (km.): 4493.832 NYTME (km.): 590.333 Building: DEGRIT

Emission Point: GRIT3  
Height (ft.): 69 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: DEGRIT

Emission Point: GRIT4  
Height (ft.): 69 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: DEGRIT

Emission Point: OCB01  
Height (ft.): 55 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PST

Emission Point: OCB02  
Height (ft.): 55 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PST

Emission Point: OCB03  
Height (ft.): 55 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: PST

Emission Point: OFBOX  
Height (ft.): 30 Diameter (in.): 12  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: DB

Emission Point: SCRE1  
Height (ft.): 54 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: SCREEN

Emission Point: SCRE2  
Height (ft.): 54 Diameter (in.): 48  
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: SCREEN

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Emission Point: SCRE3
Height (ft.): 54 Diameter (in.): 48
NYTMN (km.): 4493.832 NYTME (km.): 590.333 Building: SCREEN

Emission Point: SCRE4
Height (ft.): 54 Diameter (in.): 48
NYTMN (km.): 4493.832 NYTME (km.): 590.333 Building: SCREEN

Emission Point: SGT01
Height (ft.): 48 Diameter (in.): 36
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: RSPSB

Emission Point: SGT02
Height (ft.): 48 Diameter (in.): 36
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: RSPSB

Emission Point: SGT03
Height (ft.): 48 Diameter (in.): 36
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: RSPSB

Emission Point: SRFBS
Height (ft.): 30 Diameter (in.): 12
NYTMN (km.): 4493.823 NYTME (km.): 590.333 Building: RSPSB

Condition 27: Process Definition By Emission Unit
Effective between the dates of 01/22/2016 and 01/21/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 27.1:

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

Emission Unit: 1-COMBU
Process: BDS Source Classification Code: 1-03-005-02
Process Description:

This process is for the three Cleaver Brooks CB-2000600 hot water boilers to fire #2 Diesel fuels in the event Natural gas, Digestor gas are not adequate or not available.

These boilers (each rated 25 mmBtu/hr) are to meet the space and sludge heating demand. There will always be one boiler as standby.

Exhaust from these 3 boilers (BLER1, BLER2, BLER3) exhaust to atmosphere through a shared stack (BLERS)

Emission Source/Control: BLR01 - Combustion
Design Capacity: 25.1 million Btu per hour

Emission Source/Control: BLR02 - Combustion





Design Capacity: 25.1 million Btu per hour

Emission Source/Control: BLR03 - Combustion  
Design Capacity: 25.1 million Btu per hour

**Item 27.2:**

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

Emission Unit: 1-COMBU  
Process: BGS Source Classification Code: 1-03-006-02  
Process Description:

This process is for the three Cleaver Brooks CB-2000600 hot water boilers to fire gaseous fuels (Natural gas, Digester gas, or blend).

These boilers (each rated 25 mmBtu/hr) are to meet the space and sludge heating demand. There will always be one boiler as standby.

Exhaust from these 3 boilers (BLER1, BLER2, BLER3) exhaust to atmosphere through a shared stack (BLERS)

Emission Source/Control: BLR01 - Combustion  
Design Capacity: 25.1 million Btu per hour

Emission Source/Control: BLR02 - Combustion  
Design Capacity: 25.1 million Btu per hour

Emission Source/Control: BLR03 - Combustion  
Design Capacity: 25.1 million Btu per hour

**Item 27.3:**

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

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

This process is for the four Delaval (Enterprise's) DGSR-46, Internal Combustion Engines (Each rated 2246 HP) to fire 100% #2 Diesel fuel in the event Gas is not adequate/not available.

These engines drive four generators (each rated 2000 KVA @ .80 Power Factor) which provide power to sewage pumps and process air blowers. Among these four engines there will always be one as stand by. The engines may be operated in such a manner as to allow the plant to participate in the NYS Electrical Demand Reduction Program.

Exhaust from these four engines (ENG01, ENG02, ENG03, ENG04) pass through a waste heat recovery boiler and then vented to atmosphere through their own stacks (ENGs1,



ENGS2, ENGS3 and ENGS4 respectively)

Emission Source/Control: ENG01 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

Emission Source/Control: ENG02 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

Emission Source/Control: ENG03 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

Emission Source/Control: ENG04 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

**Item 27.4:**

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

Emission Unit: 1-COMBU  
Process: DPG Source Classification Code: 4-06-004-01

Process Description:

This Process is the Plant's diesel and gasoline dispensing stations. There is one diesel dispensing station with 550 gallon underground storage tank (DPUMP) and one gasoline dispensing station with 550 gallon underground storage tank (GPUMP).

Emission Source/Control: DPUMP - Process  
Design Capacity: 550 gallons

Emission Source/Control: GPUMP - Process  
Design Capacity: 550 gallons

**Item 27.5:**

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

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

Process Description:

This process is for the four Delaval (Enterprise's) DGSR-46, Internal Combustion Engines (Each rated 2246 HP) to fire Gaseous Fuels (Digester Gas, Natural Gas or Blend) With #2 Diesel as pilot fuel.

These engines drive four generators (each rated 2000 KVA @ .80 Power Factor) which provide power to sewage pumps and process air blowers. Among these four engines there will always be one as stand by. The engines may be operated in such a manner as to allow the plant to participate in the NYS Electrical Demand Reduction Program.

Exhaust from these four engines (ENG01, ENG02, ENG03, ENG04) pass through a waste heat recovery boiler and then

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vented to atmosphere through their own stacks (ENGs1, ENGS2, ENGS3 and ENGS4 respectively)

Emission Source/Control: ENG01 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

Emission Source/Control: ENG02 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

Emission Source/Control: ENG03 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

Emission Source/Control: ENG04 - Combustion  
Design Capacity: 2,246 horsepower (mechanical)

**Item 27.6:**

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

Emission Unit: 1-COMBU

Process: FLR

Source Classification Code: 5-01-007-89

Process Description:

In the event the digester gas production exceeds the plant demand for engines and boilers, excessive digester gas is 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: WGBR1 - Combustion

Emission Source/Control: WGBR2 - Combustion

**Item 27.7:**

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 PROCESS IS THE PLANT'S WASTEWATER ACTIVATED SLUDGE AERATION (ART) SECONDARY TREATMENT OPERATION CONSISTING OF MIXED LIQUOR CHANNEL (MXLQC) AND TWO AERATION TANKS (AERTK) EACH WITH 385' L x 21' W x 15' DEPTH IN THE AERATION TANKS (AERATION).

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 ODOROUS COMPOUNDS FROM THE AERATION TANKS ARE DUCTED TO AN ODOR CONTROL SYSTEM (AEROC) COMPRISED OF SIX WET SCRUBBERS AND EXHAUST THROUGH THEIR OWN STACKS (AER01, AER02, AER03, AER04, AER05, AER06).

Emission Source/Control: AEROC - Control  
Control Type: WET SCRUBBER

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

Emission Source/Control: 000AT - Process  
Design Capacity: 100,000,000 gallons per day

**Item 27.8:**

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 process is the WWTP chlorine contact Tanks (CCT) disinfection operation consisting of three (3) chlorination tanks CHLTK.

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 protect the receiving waters.

As part of the WWTP's upgrade plan, DEP will add a new dechlorination process to the existing chlorination process. This dechlorination process will be located in the new dechlorination facility which will consists of two 7,500-gallon sodium bisulfite storage tanks, diaphragm metering pumps, one 1,000 gallon emergency sodium bisulfite storage tank, and a control room constructed in an approximately 32 ft wide by 46 ft long by 30 ft tall brick building. Each sodium bisulfite storage tank will be connected with a permanganate impregnated alumina based media for treating potential sulfur dioxide off-gas.

Emission Source/Control: 00CCT - Process  
Design Capacity: 100,000,000 gallons per day



**Item 27.9:**

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

Emission Unit: 2-WWTRE

Process: DEG

Source Classification Code: 5-01-007-99

Process Description:

THIS PROCESS IS THE PLANT'S DEGRITTER (DEG) OPERATIONS CONSISTING OF TEN CYCLONE DEGRITTERS (CYCDG), SIX GRIT CLASSIFIERS (CLASS), SKIMMING PITS (SKMPT), SKIMMING CONTAINERS (SKMCT), GRIT CONTAINERS (GRTCT), FOUR GRIT TANKS (GRITK), PUMPROOM (PUMPR, CONTAINING SIX PUMPS), AND SKIMMING ENCLOSURES (SKMEN) IN THE GRIT REMOVAL BUILDING (GRITREM).

THE ODOROUS COMPOUNDS FROM THE GRIT REMOVAL BUILDING PASS THROUGH AN ODOR CONTROL SYSTEM (GRIOC) CONSISTS OF FOUR WET SCRUBBERS AND EXHAUST THROUGH FOUR STACKS (GRIT1, GRIT2, GRIT3, GRIT4).

Emission Source/Control: GRIOC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: CLASS - Process

Emission Source/Control: CYCDG - Process

Emission Source/Control: GRTCT - Process

Emission Source/Control: GRTTK - Process

Emission Source/Control: PUMPR - Process

Emission Source/Control: SKMCT - Process

Emission Source/Control: SKMEN - Process

Emission Source/Control: SKMPT - Process

**Item 27.10:**

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 PROCESS IS THE PLANT FINAL SETTLING TANKS (FST) OPERATION CONSISTING OF EIGHT (8) FINAL SETTLING TANKS (FINTK) EACH WITH THE DIMENSION OF 253.2' L X 54.5' W X 13.4'



DEPTH.

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.

Emission Source/Control: 00FST - Process  
Design Capacity: 100,000,000 gallons per day

**Item 27.11:**

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 THREE (3) SLUDGE DIGESTER GAS HOLDING TANKS (GASTK) EACH WITH 47,000 CUBIC FEET.

DIGESTER GAS PRODUCED IN THE SLUDGE ANAEROBIC DIGESTER TANKS WILL BE STORED IN THESE TANKS FOR LATER USE AT COMBUSTION UNITS.

Emission Source/Control: DIGTK - Process  
Design Capacity: 828,000 cubic feet

**Item 27.12:**

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 HEADWORKS (PHW) OPERATION CONSISTING OF SIX SCREENS (SCREN) AND WET WELL (WWELL) IN THE SCREENING BUILDING (SCREEN).

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.



THE ODOROUS COMPOUNDS FROM THE SCREEN BUILDING PASSED THROUGH AN ODOR CONTROL SYSTEM (SCROC) COMPOSED OF FOUR WET SCRUBBERS AND EXHAUST THROUGH FOUR STACKS (SCRE1, SCRE2, SCRE3, SCRE4).

Emission Source/Control: SCROC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: SCREN - Process  
Design Capacity: 100,000,000 gallons per day

Emission Source/Control: WWELL - Process  
Design Capacity: 100,000,000 gallons per day

**Item 27.13:**

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 PRIMARY SETTLING TANKS (PST) PRIMARY TREATMENT OPERATION CONSISTING OF PRIMARY SETTLING TANK INFLUENT CHANNEL (PSTIC) AND EIGHT (8) PRIMARY SETTLING TANKS EACH WITH DIMENSIONS OF 190' L x 44' W x 12' H.

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 ODOROUS COMPOUNDS FROM THE PRIMARY SETTLING TANKS INFLUENT CHANNEL AND PRIMARY SETTLING TANKS ARE DUCTED TO A TWO-STAGE ODOR CONTROL SYSTEM (PRIOC) IN THE PRIMARY ODOR CONTROL BUILDING. THIS ODOR CONTROL SYSTEM IS COMPRISED OF TWO SMALL AND TWO LARGE WET SCRUBBERS FOLLOWED BY ELEVEN CARBON ADSORBERS AND EXHAUST THROUGH THREE STACKS (OCB01, OCB02, OCB03). THIS ODOR CONTROL SYSTEM IS UNDERGOING A



RE-CONSTRUCTION AND TO REPLACE THE TWO  
SMALL WET SCRUBBERS WITH ONE LARGE  
SCRUBBER.

Emission Source/Control: PRIOC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00PST - Process  
Design Capacity: 100,000,000 gallons per day

Emission Source/Control: PSTIC - Process  
Design Capacity: 100,000,000 gallons per day

**Item 27.14:**

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 SLUDGE DIGESTER TANKS  
EACH WITH 71 FEET DIAMETER AND 29.5 FEET  
DEPTH.

AFTER SLUDGE GRAVITY THICKENING, FOR MAKING  
IT SAFER FOR THE ENVIRONMENT, THE SLUDGE IS  
PLACED IN OXYGEN-FREE TANKS CALLED  
DIGESTERS. DIGESTERS ARE HEATED TO AT LEAST  
950 F 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.

ODOR EMISSIONS FROM THE DIGESTER OVERFLOW  
BOX ARE DUCTED TO AN ODOR CONTROL SYSTEM  
(SADOC) COMPRISED OF ONE CARBON ADSORBER  
AND EXHAUSTED THROUGH ONE STACK (SADIG).

Emission Source/Control: SADOC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: DIGTK - Process  
Design Capacity: 828,000 cubic feet

Emission Source/Control: GASTK - Process  
Design Capacity: 141,000 cubic feet

Emission Source/Control: SLDGT - Process





Design Capacity: 287,500 cubic feet

**Item 27.15:**

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 RETURN ACTIVATED SLUDGE WETWELL (RASWW), SECONDARY SLUDGE SCREEN (SSCRN) AND EIGHT (8) SLUDGE GRAVITY THICKENER TANKS SGTTK EACH WITH 60 FEET DIAMETER X 10 FEET DEPTH.

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 AN ODOR CONTROL SYSTEM (SGTOC) COMPRISED OF THREE WET SCRUBBERS LOCATED IN THE RETURN SLUDGE PUMP STATION BUILDING AND EXHAUSTED THROUGH THREE STACKS (SGT01, SGT02, SGT03), AND AN ODOR CONTROL SYSTEM (SRFOC) COMPRISED OF ONE CARBON ADSORBER AT THE RECYCLE FLOW PUMP STATION BUILDING AND EXHAUST THROUGH ONE STACK (SRFBS).

Emission Source/Control: SGTOC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: SRFOC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: RASWW - Process

Emission Source/Control: SRFPS - Process

Emission Source/Control: SSCRN - Process

Emission Source/Control: THKNS - Process  
Design Capacity: 280,000 cubic feet

**Item 27.16:**

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 PLANT'S SLUDGE STORAGE  
TANKS (SST) OPERATION CONSISTING OF FIVE  
(5) DIGESTED SLUDGE STORAGE TANKS (DSSTK)  
EACH WITH 11,500 CUBIC FEET.

EXCESSIVE SLUDGE WILL BE STORED IN THESE  
STORAGE TANKS.

Emission Source/Control: SLDGT - Process  
Design Capacity: 287,500 cubic feet

**Condition 28: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 28.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

**Item 28.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Alternative emission limit for all the four engines,  
ENG01, ENG02, ENG03, and ENG04, when burning dual fuel  
(natural gas, digester gas, with # 2 fuel as pilot  
fuel)

NOx RACT limit is 5.0 gm/bhp-hr. However, September 26,  
2011 stack test result demonstrated 2.0 gm/bhp-hr.

Stack testing is required once during the permit term to  
demonstrate compliance with 3.5 gm/bhp-hr. (average of 2  
recent stack test results)

Stack test protocol must be send to Department for  
approval prior to testing.

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 7/30/2016.

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



**Condition 29: Compliance Certification**  
Effective between the dates of 01/22/2016 and 01/21/2021

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

**Item 29.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Alternative emission limit for all the four engines,  
ENG01, ENG02, ENG03, and ENG04, when burning diesel  
fuel

NO<sub>x</sub> RACT limit is 8.7 gm/bhp-hr. However, September 26,  
2011 stack test result demonstrated 5.6 gm/bhp-hr.

Stack testing is required once during the permit term to  
demonstrate compliance with 7.15 gm/bhp-hr.  
(average of 2 recent stack test results)

Stack test protocol must be send to Department for  
approval prior to testing.

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 7/30/2016.

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

**Condition 30: Compliance Certification**  
Effective between the dates of 01/22/2016 and 01/21/2021

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

**Item 30.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

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

Reference Test Method: EPA RM 5

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 7/30/2016.

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

**Condition 31: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1) (ii)**

**Item 31.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Process: BDS

Emission Source: BLR01

Regulated Contaminant(s):

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

**Item 31.2:**

**New York State Department of Environmental Conservation**

**Permit ID: 2-6107-00004/00017**

**Facility DEC ID: 2610700004**



Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to distillate oil/gas fired mid-size boilers. The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.

The owner or operator will maintain records on-site for a minimum of five years.

The compliance deadline, with the emission limitation listed in this condition, is July, 1 2014. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July, 1 2014.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.08 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

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 7/30/2016.

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

**Condition 32: Compliance Certification**

**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1) (ii)**

**Item 32.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Process: BDS

Emission Source: BLR02

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 32.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to distillate oil/gas fired mid-size boilers. The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.



The owner or operator will maintain records on-site for a minimum of five years.

The compliance deadline, with the emission limitation listed in this condition, is July, 1 2014. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July, 1 2014.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.08 pounds per million Btus  
Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 33: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1) (ii)**

**Item 33.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU  
Process: BDS Emission Source: BLR03

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

**Item 33.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to distillate oil/gas fired mid-size boilers. The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.

The owner or operator will maintain records on-site for a minimum of five years.

The compliance deadline, with the emission limitation listed in this condition, is July, 1 2014. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July, 1 2014.

**New York State Department of Environmental Conservation**

Permit ID: 2-6107-00004/00017

Facility DEC ID: 2610700004



Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.08 pounds per million Btus  
Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 34: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 227-1.3**

**Item 34.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU                      Emission Point: BLERS

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers 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 boiler which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).
- 2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:
  - date and time of day
  - observer's name
  - identity of emission point
  - weather condition
  - was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

- 3) If the operator observes any visible emissions (other



than steam - see below) 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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 35: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 35.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU                      Emission Point: BLERS

**Item 35.2:**  
Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.





The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

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

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 36: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 227-1.3**

**Item 36.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: ENG01



**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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 37: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: ENG01

**Item 37.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective



actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 38: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 227-1.3**

**Item 38.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: ENG02

**Item 38.2:**

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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 39: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 39.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: ENG02

**Item 39.2:**  
Compliance Certification shall include the following monitoring:

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

Monitoring Description:



No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

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 7/30/2016.

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

**Condition 40: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement: 6 NYCRR 227-1.3**

**Item 40.1:**



The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Emission Point: ENG03

**Item 40.2:**

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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 41.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: ENG03

**Item 41.2:**  
Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test





indicates that the opacity standard is not met.

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

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 42: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable Federal Requirement:6 NYCRR 227-1.3**

**Item 42.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: ENG04

**Item 42.2:**  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 43: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

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

Emission Unit: 1-COMBU Emission Point: ENG04

**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 operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

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 7/30/2016.

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

**Condition 44: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**



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

**Item 44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU Emission Point: FLAR1

**Item 44.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

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

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent



Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
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 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

**Condition 45: Compliance Certification**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

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

**Item 45.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-COMBU

Emission Point: FLAR2

**Item 45.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective

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**Facility DEC ID: 2610700004**



actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

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 7/30/2016.

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



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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

**Item A: 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 46: Contaminant List**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable State Requirement:ECL 19-0301**

**Item 46.1:**

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

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



CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

**Condition 47: Malfunctions and start-up/shutdown activities**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 47.1:**

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

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

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

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

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

**Condition 48: Visible Emissions Limited**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 48.1:**





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

**Condition 49: Compliance Demonstration**  
**Effective between the dates of 01/22/2016 and 01/21/2021**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 49.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 49.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall follow best engineering procedures and take precautions to minimize odors.

Facility shall evaluate Operation and Maintenance of Odor Control Systems and keep the system in compliance.

Facility must maintain daily log on site to record odor by portable jerome meter at plant periphery and record corrective actions taken in the event the odors are observed more than 50 ppb of H<sub>2</sub>S within plant premises and more than 10 ppb of H<sub>2</sub>S outside of plant (ambient air).

Each complaint plant received should be followed up with investigation and logged.

A report should be filed with the Department semiannually regarding complaints received and actions taken and jerome meter readings more than values indicated and actions taken.

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 7/30/2016.

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

