



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6007-00025/02005
Mod 0 Effective Date: 05/02/2004 Expiration Date: No expiration date.
Mod 1 Effective Date: 11/03/2005 Expiration Date: No expiration date.
Mod 2 Effective Date: 02/16/2006 Expiration Date: No expiration date.
Mod 3 Effective Date: 04/04/2007 Expiration Date: No expiration date.
Mod 4 Effective Date: 09/25/2008 Expiration Date: No expiration date.
Mod 5 Effective Date: 11/21/2011 Expiration Date: No expiration date.

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

Contact: VINCENT SAPIENZA
NYCDEP / BWT
96-05 HORACE HARDING EXPWY - 2ND FL
FLUSHING, NY 11368
(718) 595-4906

Facility: NYC-DEP HUNTS PT WPCP
COSTER ST & RYAWA AVE
BRONX, NY 10474

Description:
This permit modification is submitted to increase the NO_x emission limit for the plant's six new 2000kW emergency generators from 5.5 g/bhp-hr to 6.9 g/bhp-hr.

When DEP submitted the Part 201 Air State Facility ("ASF") permit application for the Hunts Point WWTP in 2004, there was no site specific emission information available for the six new 2000 kW emergency generators. DEP's consultant used a NO_x emission specification of 0.25 lb/gal (equivalent to 5.5 g/bhp-hr) as the best estimate to calculate NO_x emissions from six new generators scheduled to be installed. As required by the permit's Federal Applicable Requirement 1-12.7, on December 17, 2009, DEP conducted stack NO_x emission source testing at emergency engine generator #4 and determined that the actual NO_x emission at the generator is 6.0 g/bhp-hr.

The six new 2000kW emergency engine generators are model year 2004 engine generators. 40 CFR Part 60, Subpart IIII sets a NO_x emission limit of 6.9 g/bhp-hr for the pre-2007 model year engine category, which these six new 2000kW emergency engine generators are subject to. Therefore, pursuant to the applicable regulations, the NO_x emission limit for these engine generators is 6.9 g/bhp-hr (equivalent to 0.30 lb/gal).

New York State Department of Environmental Conservation
Facility DEC ID: 2600700025



DEP hereby submits the attached application to modify the existing Hunt Point ASF Permit to increase the NO_x emission limit for the six new 2000kW emergency engine generators in the plant's ASF Permit's emission calculations.

The facility NO_x emissions are capped at 24.9 tons per year.
The annual operating hours for each emergency generator is limited to 500 hours.
The owner or operator of the facility shall maintain separate records of the amount of fuel combusted in each engine generator.

The facility is subject to the provisions of State Facility requirements specified under 6NYCRR 201-7.2.

The Air State Facility permit contains a listing of the applicable federal, state, and compliance monitoring requirements for the facility.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

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

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of Applications for Permit Modification or Renewal-REGION 2 HEADQUARTERS
- Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS



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

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 4-1: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 4-1.1:

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

Item 4-1.2:

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

Item 4-1.3:

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



Condition 3: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6 NYCRR 621.13

Item 3.1:

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

Item 3.2:

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

Item 3.3:

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

Condition 4-2: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4-2.1:

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

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

Condition 5-2: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 5-2.1:

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

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



provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Condition 5-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 5-1.1:

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

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

Condition 4: Permit Modifications, Suspensions and Revocations by the Department

Applicable State Requirement: 6 NYCRR 621.14

Item 4.1:

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

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

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

Condition 5: Submission of Applications for Permit Modification or Renewal-REGION 2 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.5 (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

**Condition 4-3: Submission of application for permit modification or renewal -
REGION 2**

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 4-3.1:

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: 2-6007-00025/02005

Facility DEC ID: 2600700025



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY

PERMIT

IDENTIFICATION INFORMATION

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

Facility: NYC-DEP HUNTS PT WPCP
COSTER ST & RYAWA AVE
BRONX, NY 10474

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

Mod 0 Permit Effective Date: 05/02/2004
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 11/03/2005
date.

Permit Expiration Date: No expiration

Mod 2 Permit Effective Date: 02/16/2006
date.

Permit Expiration Date: No expiration

Mod 4 Permit Effective Date: 09/25/2008
date.

Permit Expiration Date: No expiration

Mod 5 Permit Effective Date: 11/21/2011
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 5-1 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
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- 5-3 6 NYCRR 202-1.1: Required Emissions Tests
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- 4-1 6 NYCRR 201-7.2: Facility Permissible Emissions
- *5-4 6 NYCRR 201-7.2: Capping Monitoring Condition
- *4-2 6 NYCRR 201-7.2: Capping Monitoring Condition
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- *5-5 6 NYCRR 201-7.2: Capping Monitoring Condition
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- *5-7 6 NYCRR 201-7.2: Capping Monitoring Condition
- *5-8 6 NYCRR 201-7.2: Capping Monitoring Condition
- 6 6 NYCRR 202-1.2: Notification
- 7 6 NYCRR 202-1.3: Acceptable procedures
- 1-6 6 NYCRR 202-1.3: Acceptable procedures - Stack test report submittal
- 5-9 6 NYCRR 211.1: Air pollution prohibited
- 4-5 6 NYCRR Part 212: Compliance Demonstration
- 4-6 6 NYCRR Part 212: Compliance Demonstration
- 13 6 NYCRR 225-1.8: Compliance Demonstration
- 14 6 NYCRR 225-1.8 (a): Compliance Demonstration
- 15 6 NYCRR 225.1 (a) (3): Compliance Demonstration
- 16 6 NYCRR 227-1.3 (a): Compliance Demonstration

Emission Unit Level

EU=1-BLERS

- *1-9 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 19 40CFR 60.42c(d), NSPS Subpart Dc: Fuel Sulfur Limitation
- 20 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

EU=1-BLERS,Proc=BL2

- *4-7 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=1-BLERS,Proc=BM2

- *4-8 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=2-WWTRE

- 21 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications
- 22 6 NYCRR 212.6 (a): Compliance Demonstration

EU=3-SLUDG

- 23 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications
- 24 6 NYCRR 212.6 (a): Compliance Demonstration

EU=4-WDGBR

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*1-11 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=5-MISCS

*1-12 6 NYCRR Subpart 201-7: Capping Monitoring Condition

27 40CFR 60.42c(d), NSPS Subpart Dc: Fuel Sulfur Limitation

28 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

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5-11 40CFR 60.4209(a), NSPS Subpart IIII: Compliance Demonstration

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Facility Level

29 ECL 19-0301: Contaminant List

5-12 6 NYCRR 201-1.4: Unavoidable noncompliance and violations

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5-13 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

33 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

34 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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



required to operate such device effectively.

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

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

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item L: Permit Exclusion - ECL 19-0305

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

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

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 5-1: Exempt Sources - Proof of Eligibility

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Effective between the dates of 11/21/2011 and Permit Expiration Date

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

Item 5-1.1:

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

Condition 5-2: Compliance Demonstration

Effective between the dates of 11/21/2011 and Permit Expiration Date

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

Item 5-2.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 5-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As proof of exempt eligibility for the emergency generators, the facility must maintain monthly records which demonstrate that each engine is operated less than 500 hours per year, on a 12-month rolling total basis.

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MINIMUM ROLLED MONTHLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 5-3: Required Emissions Tests

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 5-3.1:

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

Condition 1-2: Facility Permissible Emissions

Effective between the dates of 11/03/2005 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

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Item 5-2.1:

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

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

CAS No: 0NY210-00-0 (From Mod 5) PTE: 49,800 pounds
per year
Name: OXIDES OF NITROGEN

Condition 4-1: Facility Permissible Emissions

Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 5-1.1:

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

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

CAS No: 0NY100-00-0 (From Mod 5) PTE: 49,800 pounds
per year
Name: HAP

CAS No: 0NY210-00-0 (From Mod 5) PTE: 49,800 pounds
per year
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0 (From Mod 5) PTE: 49,800 pounds
per year
Name: VOC

Condition 5-4: Capping Monitoring Condition

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 5-4.1:

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

6 NYCRR Subpart 201-6

Item 5-4.2:

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

Item 5-4.3:

The owner or operator of the permitted facility must maintain all required records on-site for a

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period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 5-4.4:

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

Item 5-4.5:

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

Item 5-4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 5-4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

PLANT-WIDE NOX EMISSION LIMIT IS BELOW
24.9 TONS PER YEAR.

THE OWNER OR OPERATOR SHALL CALCULATE NO_x
EMISSIONS (BASED ON THE FUEL QUANTITIES)
USING THE FOLLOWING FORMULA:

$D1(0.035) + D2(0.30) + MNG(35) + DNG(54) +$
 $DG(25.7) + F(27.5) < 49,800 \text{ LBS/YR OF}$
OXIDES OF NITROGEN
EMISSIONS.

WHERE:

D1=12-MONTH ROLLING TOTAL OF DISTILLATE
OIL FIRED (FROM BOILERS, EM UNIT 1-BLERS)
IN GAL/YR;
0.035 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/GAL. STACK TEST IS NOT
REQUIRED.

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D2=12-MONTH ROLLING TOTAL OF DISTILLATE OIL FIRED (FROM DIESEL FIRED GENERATORS, EM UNIT 5-MISC) IN GAL/YR;
0.30 - EMISSION FACTOR BASED ON THE EMISSION STANDARD OF 6.9 G/HP-HR (OR 9.2 G/KW-HR) FROM TABLE 1 TO SUBPART IIII OF 40CFR PART 60, IN LB/GAL.

MNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM MAIN BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
35 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM DEWATERING BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
54 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DG=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
25.7 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 600 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

F=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM 3 ENCLOSED TYPE WASTE GAS BURNER FLARES, EM UNIT 4-WDGBR) IN MMSCF/YR;
27.5 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 550 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.9 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

New York State Department of Environmental Conservation

Permit ID: 2-6007-00025/02005

Facility DEC ID: 2600700025



Condition 4-2: Capping Monitoring Condition

Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 4-2.1:

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

6 NYCRR Subpart 201-6

Item 4-2.2:

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

Item 4-2.3:

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

Item 4-2.4:

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

Item 4-2.5:

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

Item 4-2.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 4-2.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

PLANT-WIDE VOCs EMISSION LIMIT IS BELOW

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24.9 TONS PER YEAR. THE MONITORING
FREQUENCY IS BASED ON ONLY ONCE PER YEAR
MONITORING OF WASTEWATER TREATMENT VOC
EMISSIONS.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTEWATER

Parameter Monitored: VOC

Upper Permit Limit: 24.9 tons per year

Monitoring Frequency: MINIMUM - ONCE PER CALENDAR YEAR

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 4-4: Capping Monitoring Condition
Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 4-4.1:

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

6 NYCRR Subpart 201-6

Item 4-4.2:

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

Item 4-4.3:

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

Item 4-4.4:

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

Item 4-4.5:

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

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Item 4-4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 4-4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

PLANT-WIDE HAPs EMISSION LIMIT IS BELOW 24.9 TONS PER YEAR (10 TONS PER YEAR FOR EACH INDIVIDUAL HAP). THE MONITORING FREQUENCY IS BASED ON ONLY ONCE PER YEAR MONITORING OF WASTEWATER TREATMENT VOC EMISSIONS.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTEWATER

Parameter Monitored: HAP

Upper Permit Limit: 24.9 tons per year

Monitoring Frequency: MINIMUM - ONCE PER CALENDAR YEAR

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 5-5: Capping Monitoring Condition

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 5-5.1:

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

6 NYCRR Subpart 201-6

Item 5-5.2:

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

Item 5-5.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

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Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 5-5.4:

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

Item 5-5.5:

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

Item 5-5.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 5-5.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

PLANT-WIDE NOX EMISSION LIMIT IS BELOW
24.9 TONS PER YEAR.

THE OWNER OR OPERATOR SHALL CALCULATE NO_x
EMISSIONS (BASED ON THE FUEL QUANTITIES)
USING THE FOLLOWING FORMULA:

$$D1(0.035) + D2(0.30) + MNG(35) + DNG(54) +$$
$$DG(25.7) + F(27.5) < 49,800 \text{ LBS/YR OF}$$

OXIDES OF NITROGEN
EMISSIONS.

WHERE:

D1=12-MONTH ROLLING TOTAL OF DISTILLATE
OIL FIRED (FROM BOILERS, EM UNIT 1-BLERS)
IN GAL/YR;
0.035 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/GAL. STACK TEST IS NOT
REQUIRED.

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D2=12-MONTH ROLLING TOTAL OF DISTILLATE OIL FIRED (FROM DIESEL FIRED GENERATORS, EM UNIT 5-MISC) IN GAL/YR;
0.30 - EMISSION FACTOR BASED ON THE EMISSION STANDARD OF 6.9 G/HP-HR (OR 9.2 G/KW-HR) FROM TABLE 1 TO SUBPART IIII OF 40CFR PART 60, IN LB/GAL.

MNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM MAIN BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
35 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM DEWATERING BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
54 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DG=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
25.7 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 600 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

F=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM 3 ENCLOSED TYPE WASTE GAS BURNER FLARES, EM UNIT 4-WDGBR) IN MMSCF/YR;
27.5 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 550 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.9 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

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Condition 5-6: Capping Monitoring Condition
Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 5-6.1:

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

6 NYCRR Subpart 201-6

Item 5-6.2:

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

Item 5-6.3:

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

Item 5-6.4:

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

Item 5-6.5:

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

Item 5-6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 5-6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

PLANT-WIDE NOX EMISSION LIMIT IS BELOW
24.9 TONS PER YEAR.



THE OWNER OR OPERATOR SHALL CALCULATE NO_x
EMISSIONS (BASED ON THE FUEL QUANTITIES)
USING THE FOLLOWING FORMULA:

$D1(0.035) + D2(0.30) + MNG(35) + DNG(54) +$
 $DG(25.7) + F(27.5) < 49,800 \text{ LBS/YR OF}$
OXIDES OF NITROGEN
EMISSIONS.

WHERE:

D1=12-MONTH ROLLING TOTAL OF DISTILLATE
OIL FIRED (FROM BOILERS, EM UNIT 1-BLERS)
IN GAL/YR;
0.035 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/GAL. STACK TEST IS NOT
REQUIRED.

D2=12-MONTH ROLLING TOTAL OF DISTILLATE
OIL FIRED (FROM DIESEL FIRED GENERATORS,
EM UNIT 5-MISC) IN GAL/YR;
0.30 - EMISSION FACTOR BASED ON THE
EMISSION STANDARD OF 6.9 G/HP-HR (OR 9.2
G/KW-HR) FROM TABLE 1 TO SUBPART IIII OF
40CFR PART 60, IN LB/GAL.

MNG=12-MONTH ROLLING TOTAL OF NATURAL GAS
FIRED (FROM MAIN BUILDING BOILERS, EM
UNIT 1-BLERS) IN MMSCF/YR;
35 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/MMSCF (BASED ON 1000
BTU/SCF HEAT CONTENT). STACK TEST IS
REQUIRED.

DNG=12-MONTH ROLLING TOTAL OF NATURAL GAS
FIRED (FROM DEWATERING BUILDING BOILERS,
EM UNIT 1-BLERS) IN MMSCF/YR;
54 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/MMSCF (BASED ON 1000
BTU/SCF HEAT CONTENT). STACK TEST IS
REQUIRED.

DG=12-MONTH ROLLING TOTAL OF DIGESTER GAS
FIRED (FROM BOILERS, EM UNIT 1-BLERS) IN
MMSCF/YR;
25.7 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/MMSCF (BASED ON 600
BTU/SCF HEAT CONTENT). STACK TEST IS
REQUIRED.

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F=12-MONTH ROLLING TOTAL OF DIGESTER GAS
FIRED (FROM 3 ENCLOSED TYPE WASTE GAS
BURNER FLARES, EM UNIT 4-WDGBR) IN
MMSCF/YR;
27.5 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/MMSCF (BASED ON 550
BTU/SCF HEAT CONTENT). STACK TEST IS
REQUIRED.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.9 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

Condition 5-7: Capping Monitoring Condition

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 5-7.1:

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

6 NYCRR Subpart 201-6

Item 5-7.2:

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

Item 5-7.3:

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

Item 5-7.4:

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

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Item 5-7.5:

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

Item 5-7.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 5-7.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

PLANT-WIDE NOX EMISSION LIMIT IS BELOW
24.9 TONS PER YEAR.

THE OWNER OR OPERATOR SHALL CALCULATE NO_x
EMISSIONS (BASED ON THE FUEL QUANTITIES)
USING THE FOLLOWING FORMULA:

$D1(0.035) + D2(0.30) + MNG(35) + DNG(54) +$
 $DG(25.7) + F(27.5) < 49,800 \text{ LBS/YR OF}$
OXIDES OF NITROGEN
EMISSIONS.

WHERE:

D1=12-MONTH ROLLING TOTAL OF DISTILLATE
OIL FIRED (FROM BOILERS, EM UNIT 1-BLERS)
IN GAL/YR;
0.035 - EMISSION FACTOR PROPOSED BY
APPLICANT IN LB/GAL. STACK TEST IS NOT
REQUIRED.

D2=12-MONTH ROLLING TOTAL OF DISTILLATE
OIL FIRED (FROM DIESEL FIRED GENERATORS,
EM UNIT 5-MISC) IN GAL/YR;
0.30 - EMISSION FACTOR BASED ON THE
EMISSION STANDARD OF 6.9 G/HP-HR (OR 9.2
G/KW-HR) FROM TABLE 1 TO SUBPART IIII OF
40CFR PART 60, IN LB/GAL.

MNG=12-MONTH ROLLING TOTAL OF NATURAL GAS
FIRED (FROM MAIN BUILDING BOILERS, EM
UNIT 1-BLERS) IN MMSCF/YR;
35 - EMISSION FACTOR PROPOSED BY

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APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM DEWATERING BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
54 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DG=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
25.7 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 600 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

F=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM 3 ENCLOSED TYPE WASTE GAS BURNER FLARES, EM UNIT 4-WDGBR) IN MMSCF/YR;
27.5 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 550 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.9 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

Condition 5-8: Capping Monitoring Condition
Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 5-8.1:

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

6 NYCRR Subpart 201-6

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Item 5-8.2:

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

Item 5-8.3:

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

Item 5-8.4:

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

Item 5-8.5:

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

Item 5-8.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 5-8.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

PLANT-WIDE NOX EMISSION LIMIT IS BELOW 24.9 TONS PER YEAR.

THE OWNER OR OPERATOR SHALL CALCULATE NO_x EMISSIONS (BASED ON THE FUEL QUANTITIES) USING THE FOLLOWING FORMULA:

$$D1(0.035) + D2(0.30) + MNG(35) + DNG(54) + DG(25.7) + F(27.5) < 49,800 \text{ LBS/YR OF OXIDES OF NITROGEN EMISSIONS.}$$

WHERE:

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Facility DEC ID: 2600700025



D1=12-MONTH ROLLING TOTAL OF DISTILLATE OIL FIRED (FROM BOILERS, EM UNIT 1-BLERS) IN GAL/YR;
0.035 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/GAL. STACK TEST IS NOT REQUIRED.

D2=12-MONTH ROLLING TOTAL OF DISTILLATE OIL FIRED (FROM DIESEL FIRED GENERATORS, EM UNIT 5-MISC) IN GAL/YR;
0.30 - EMISSION FACTOR BASED ON THE EMISSION STANDARD OF 6.9 G/HP-HR (OR 9.2 G/KW-HR) FROM TABLE 1 TO SUBPART IIII OF 40CFR PART 60, IN LB/GAL.

MNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM MAIN BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
35 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DNG=12-MONTH ROLLING TOTAL OF NATURAL GAS FIRED (FROM DEWATERING BUILDING BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
54 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 1000 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

DG=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM BOILERS, EM UNIT 1-BLERS) IN MMSCF/YR;
25.7 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 600 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

F=12-MONTH ROLLING TOTAL OF DIGESTER GAS FIRED (FROM 3 ENCLOSED TYPE WASTE GAS BURNER FLARES, EM UNIT 4-WDGBR) IN MMSCF/YR;
27.5 - EMISSION FACTOR PROPOSED BY APPLICANT IN LB/MMSCF (BASED ON 550 BTU/SCF HEAT CONTENT). STACK TEST IS REQUIRED.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

New York State Department of Environmental Conservation

Permit ID: 2-6007-00025/02005

Facility DEC ID: 2600700025



Upper Permit Limit: 24.9 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2012.
Subsequent reports are due every 12 calendar month(s).

Condition 6: Notification
Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 6.1:

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

Condition 7: Acceptable procedures
Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 7.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 1-6: Acceptable procedures - Stack test report submittal
Effective between the dates of 11/03/2005 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 1-6.1:

Emission test reports must be submitted in triplicate to the commissioner within 60 days after the completion of the tests, unless additional time is requested in writing.

Condition 5-9: Air pollution prohibited
Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 211.1

Item 5-9.1:

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.

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Condition 4-5: Compliance Demonstration

Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Part 212

Item 4-5.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 3-SLUDG

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 4-5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emission stack test is required to determine VOC emissions from the Dewatering Building. Stack test must be conducted by July 1, 2006.

Upper Permit Limit: 24.9 tons per year

Reference Test Method: USEPA 600 Series

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-6: Compliance Demonstration

Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Part 212

Item 4-6.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 3-SLUDG

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 4-6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emission stack test is required to determine HAP emissions from the Dewatering Building. Stack test must be conducted by July 1, 2006.

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Upper Permit Limit: 24.9 tons per year

Reference Test Method: USEPA 600 Series

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 13: Compliance Demonstration

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 225-1.8

Item 13.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility which purchases and fires coal and/or oil shall submit reports to the commissioner containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 14: Compliance Demonstration

Effective between the dates of 05/02/2004 and Permit Expiration Date

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

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum: supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to

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determine the sulfur content. Such certifications shall be available for inspection by, or submittal to, NYSDEC upon request.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 15: Compliance Demonstration
Effective between the dates of 05/02/2004 and Permit Expiration Date

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

Item 15.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 15.2:

Compliance Demonstration 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

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 16: Compliance Demonstration
Effective between the dates of 05/02/2004 and Permit Expiration Date

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

Item 16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 16.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six

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minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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

Condition 1-9: Capping Monitoring Condition

Effective between the dates of 11/03/2005 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-9.1:

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

6 NYCRR Subpart 201-6

Item 1-9.2:

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

Item 1-9.3:

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

Item 1-9.4:

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

Item 1-9.5:

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

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Item 1-9.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BLERS

Regulated Contaminant(s):

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

Item 1-9.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

EMISSION FACTOR 25.7 LB/MMSCF OF NO_x
WHEN BURN DIGESTER GAS IN THE BOILERS IS
DEMONSTRATED THROUGH THE STACK TEST.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25.7 pounds per million cubic feet

Reference Test Method: EPA APP A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Fuel Sulfur Limitation

Effective between the dates of 05/02/2004 and Permit Expiration Date

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

Item 19.1:

This Condition applies to Emission Unit: 1-BLERS

Item 19.2:

The permittee shall not fire fuel oil which exceeds 0.50 percent sulfur by weight.

Condition 20: Compliance Demonstration

Effective between the dates of 05/02/2004 and Permit Expiration Date

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

Item 20.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BLERS

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 20.2:

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Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

- i) The name of the oil supplier, and
- ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-7: Capping Monitoring Condition

Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 4-7.1:

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

6 NYCRR Subpart 201-6

Item 4-7.2:

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

Item 4-7.3:

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

Item 4-7.4:

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

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period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 4-7.5:

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

Item 4-7.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BLERS

Process: BL2

Regulated Contaminant(s):

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

Item 4-7.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emission factor of 54 lb/mmscf when burning natural gas in the Dewatering building boilers is demonstrated through the stack test.

Upper Permit Limit: 54 pounds per million cubic feet

Reference Test Method: EPA APP A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-8: Capping Monitoring Condition

Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 4-8.1:

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

6 NYCRR Subpart 201-6

Item 4-8.2:

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

Item 4-8.3:

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

Item 4-8.4:

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

Item 4-8.5:

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

Item 4-8.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BLERS

Process: BM2

Regulated Contaminant(s):

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

Item 4-8.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emission factor of 35 lb/mmcf when burning natural gas in the Main building boilers is demonstrated through the stack test.

Upper Permit Limit: 35 pounds per million cubic feet

Reference Test Method: EPA APP A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 21: Emissions from new emission sources and/or modifications
Effective between the dates of 05/02/2004 and Permit Expiration Date**

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 21.1:

This Condition applies to Emission Unit: 2-WWTRE

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Item 21.2:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

Condition 22: Compliance Demonstration

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 22.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 2-WWTRE

Item 22.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 23: Emissions from new emission sources and/or modifications

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 23.1:

This Condition applies to Emission Unit: 3-SLUDG

Item 23.2:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as

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determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

Condition 24: Compliance Demonstration
Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 24.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 3-SLUDG

Item 24.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-11: Capping Monitoring Condition
Effective between the dates of 11/03/2005 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-11.1:

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

6 NYCRR Subpart 201-6

Item 1-11.2:

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

Item 1-11.3:

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

Item 1-11.4:

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

Item 1-11.5:

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

Item 1-11.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 4-WDGBR

Regulated Contaminant(s):

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

Item 1-11.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

EMISSION FACTOR 27.5 LB/MMSCF OF NO_x
WHEN BURN DIGESTER GAS IN THE GAS BURNER
FLARES IS DEMONSTRATED THROUGH THE STACK
TEST.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 27.5 pounds per million cubic feet

Reference Test Method: EPA APP A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-12: Capping Monitoring Condition

Effective between the dates of 11/03/2005 and Permit Expiration Date



Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-12.1:

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

6 NYCRR Subpart 201-6

Item 1-12.2:

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

Item 1-12.3:

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

Item 1-12.4:

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

Item 1-12.5:

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

Item 1-12.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 5-MISCS

Regulated Contaminant(s):

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

Item 1-12.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

EMISSION FACTOR 0.25 LB/GAL OF NO_x WHEN
BURN DIESEL OIL IN THE GENERATORS IS
DEMONSTRATED THROUGH THE STACK TEST.

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Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.25 pounds per gallon
Reference Test Method: EPA APP A
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 27: Fuel Sulfur Limitation
Effective between the dates of 05/02/2004 and Permit Expiration Date
Applicable Federal Requirement: 40CFR 60.42c(d), NSPS Subpart Dc

Item 27.1:
This Condition applies to Emission Unit: 5-MISCS

Item 27.2:
The permittee shall not fire fuel oil which exceeds 0.50 percent sulfur by weight.

Condition 28: Compliance Demonstration
Effective between the dates of 05/02/2004 and Permit Expiration Date
Applicable Federal Requirement: 40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 28.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 5-MISCS

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

Item 28.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following
information for distillate oil:

- i) The name of the oil supplier, and
- ii) A statement from the oil supplier that the oil
complies with the specifications under the definition of
distillate oil in §60.41c. 60-Dc 41c defines distillate
oil as fuel that complies with the specifications for fuel
oil numbers 1 or 2, as defined by the American Society for
Testing and Materials in ASTM D396-78, A standard
Specification for Fuel Oils.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 5-10: Compliance Demonstration

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.4205(a), NSPS Subpart IIII

Item 5-10.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 5-MISCS

Regulated Contaminant(s):

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

Item 5-10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of an emergency pre-2007 model year stationary compression ignition (CI) internal combustion engine (ICE) with a displacement of less than 10 liters per cylinder that is not a fire pump engine and having a maximum engine power of greater than or equal to 37 kW (50 HP) must not exceed 9.2 g/kW-hr (6.9 g/HP-hr) of NO_x (oxides of nitrogen). Compliance with this limit will be determined by conducting an initial performance test according to the requirements set forth in 40 CFR 60.4212. This requirement may be waived if the permittee can demonstrate compliance with the applicable emission limit by any of the following alternate methods listed below as per 40 CFR 60.4211(b)(1) thru (4):

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in 40 CFR 60, Subpart IIII and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

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(4) Keeping records of control device vendor data
indicating compliance with the standards.

Upper Permit Limit: 9.2 grams per kilowatt hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 5-11: Compliance Demonstration

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.4209(a), NSPS Subpart IIII

Item 5-11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 5-MISCS

Item 5-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary
compression ignition IC engine must install and maintain a
non-resettable hour meter prior to startup to monitor
engine usage

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

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Condition 29: Contaminant List

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 29.1:

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

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 0NY100-00-0

Name: HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

Condition 5-12: Unavoidable noncompliance and violations

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 5-12.1:

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

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

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after

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becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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

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

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

Condition 31: Emission Unit Definition

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 31.1(From Mod 5):

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

Emission Unit: 5-MISCS

Emission Unit Description:

THIS UNIT CONSISTS OF SIX (6) ENGINE GENERATORS FOR EMERGENCY PURPOSES.

Building(s): EMERGENCY

Item 31.2(From Mod 4):

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

Emission Unit: 1-BLERS

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF THE PLANT'S BOILERS FOR SPACE HEATING AND SLUDGE HEATING DEMAND. FIVE (5) NEW 750 HP CLEAVER BROOKS BOILERS WILL BE INSTALLED TO REPLACE THE FOUR EXISTING BOILERS. THE PRIMARY FUEL WILL BE DIGESTER GAS WITH NATURAL GAS AS BACKUP. ONE NEW STACK WILL BE CONSTRUCTED IN THE MAIN BUILDING FOR A TOTAL OF THREE (3) STACKS. THE PLANT ALSO

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HAS TWO 400 HP CLEAVER BROOKS BOILERS
OPERATING IN THE DEWATERING BUILDING.
THESE TWO BOILERS WILL FIRE DIGESTER GAS OR
NATURAL GAS AND USE FUEL OIL AS BACKUP.
THERE WILL BE TWO (2) STACKS IN THE
DEWATERING BUILDING. THE PLANT WILL
INSTALL ONE 16.8 MMBTU/HR BOILER FOR
HEATING SLUDGE VESSEL(S) DOCKED AT HUNTS
POINT WPCP.

Building(s): DEWATER
MAIN

Item 31.3(From Mod 1):

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

Emission Unit: 2-WWTRE

Emission Unit Description:

THIS EMISSION UNIT INCLUDES THE HUNTS
POINT WPCP PROCESSES. THE PROCESSES
INCLUDE THE HEADWORKS, PRIMARY CLARIFIERS,
AERATION TANKS, FINAL SETTLING TANKS,
CHLORINE DISINFECTION, AND THE PROPOSED
CENTRAL RESIDUAL FACILITIES. THE PROCESSES
ARE GENERALLY OUTDOORS AND IN LARGE TANKS.
UNDER THE PLANT INTERIM UPGRADE, NEW
EQUIPMENT WILL BE INSTALLED IN THE EXISTING
TANKS AND STRUCTURES AS DESCRIBED IN THE
PROJECT DESCRIPTION. EMISSIONS FROM THE
WASTEWATER PROCESSES VARY BASED ON THE
CONSTITUENTS OF THE PLANT INFLUENT, OVER
WHICH THE PLANT HAS NO CONTROL. THE
EMISSIONS ARE BASED ON CURRENT SAMPLING AND
COMPUTER MODELING. EMISSION CONTROL
MEASURES TO BE INCLUDED IN THE PLANT
UPGRADE INCLUDE: THE NEW CENTRAL RESIDUALS
BUILDING WILL HAVE SEVEN ACTIVATED CARBON
ADSORBERS WITH FIVE STACKS - THE PROCESSES
TO BE TREATED INCLUDE (1) THE EXHAUST FROM
THE PRIMARY AND SECONDARY SCREENING ROOM
AND (2) GRIT AND SCUM HANDLING EQUIPMENT
WHICH WILL BE RELOCATED TO THE NEW CENTRAL
RESIDUALS FACILITY. THE PRIMARY TANK
INFLUENT CHANNELS WILL BE COVERED AND THE
AIR WILL BE EXHAUSTED TO FOUR ACTIVATED
CARBON UNITS WITH FOUR STACKS.

Building(s): CENTRES
OUTDOOR

Item 31.4(From Mod 4):

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

Emission Unit: 3-SLUDG

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Emission Unit Description:

THIS EMISSION UNIT INCLUDES THE HUNTS POINT WPCP SLUDGE HANDLING PROCESSES CONSISTING OF THE SLUDGE DIGESTER FACILITIES, SLUDGE THICKENERS AND SLUDGE STORAGE TANKS, DEWATERING BUILDING, AND DIGESTER OVERFLOW BOXES. EXISTING CARBON ADSORPTION ODOR CONTROL UNITS ARE IN SERVICE FOR THE DIGESTER OVERFLOW BOXES - ONE (1) UNIT; SLUDGE THICKENER DISTRIBUTION BOX - ONE (1) UNIT; SLUDGE STORAGE TANK 10 - ONE (1) UNIT. THE DEWATERING BUILDING USES FOUR (4) WET SCRUBBERS AND TWO (2) DUAL STAGE WET SCRUBBERS/ACTIVATED CARBON UNITS.

Building(s): ADTKSB
DEWATER
GTTKSB
OUTDOOR

Item 31.5(From Mod 1):

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

Emission Unit: 4-WDGBR

Emission Unit Description:

THIS UNIT CONSISTS OF THE NEW WASTE DIGESTER GAS BURNERS. THERE ARE CURRENTLY SIX (6) BURNERS AT THE HUNTS POINT WPCP ON THE ROOF OF THE DIGESTER BUILDING. THE GAS THAT IS NOT BURNED IN THE PLANT BOILERS IS BURNED IN THE GAS BURNERS. THREE (3) WASTE DIGESTER GAS BURNERS WILL BE INSTALLED DURING PLANT UPGRADE. ONE FLARE WILL BE A BACK-UP. THE SIX OLD BURNERS AND STACKS WILL BE REMOVED.

Building(s): OUTDOOR

Item 31.6(From Mod 1):

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

Emission Unit: T-BOILE

Emission Unit Description:

The emission unit consists of two 350 bhp temporary boilers for meeting the plant's heating demand during this construction period. These two temporary boilers (trailer mounted) fire digester gas with diesel as backup and will be removed from the plant once the 5 new boilers can be put in operation.

Building(s): OUTDOOR

Condition 4-9: Compliance Demonstration



Effective between the dates of 09/25/2008 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 201-5.4 (b)

Item 4-9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility

Narrative:

Under the operational flexibility provisions of this section, the following changes do not require prior approval by the Department or a permit modification:

- (i) changes that do not cause emissions to exceed any emission limitation contained in regulations or applicable requirements;
- (ii) changes which do not cause the source to become subject to any additional regulations or requirements;
- (iii) changes that do not seek to establish or modify a federally-enforceable emission cap or limit.

The facility owner and/or operator is required to maintain records of the date and description of such changes and make such records available for review by Department representatives upon request.

This section also requires the permittee to notify the Department in writing at least 30 calendar days in advance of making changes involving:

- (i) the relocation of emission points within a facility;
- (ii) the emission of any air pollutant not previously authorized or emitted in accordance with a permit issued by the Department;
- (iii) the installation or alteration of any air cleaning installations, device or control equipment.

Finally, if the department determines that a change does not meet the above criteria and requires a permit modification or the change may result in a significant air quality impact, a more detailed review may be required. In this situation, the permittee will be provided with a written explanation of this by the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 5-13: Visible Emissions Limited

Effective between the dates of 11/21/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 5-13.1:

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

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

Condition 33: Emission Point Definition By Emission Unit

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 33.1(From Mod 5):

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

Emission Unit: 5-MISCS

Emission Point: 5EEG1

Height (ft.): 50

Diameter (in.): 84

NYTMN (km.): 4517.6

NYTME (km.): 594.

Building: EMERGENCY

Item 33.2(From Mod 4):

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

Emission Unit: 1-BLERS

Emission Point: 1BLR1

Height (ft.): 76

Diameter (in.): 42

NYTMN (km.): 4517.6

NYTME (km.): 594.

Building: MAIN

Emission Point: 1BLR2

Height (ft.): 76

Diameter (in.): 42

NYTMN (km.): 4517.6

NYTME (km.): 594.

Building: MAIN

Emission Point: 1BLR3

Height (ft.): 87

Diameter (in.): 24

NYTMN (km.): 4517.6

NYTME (km.): 594.

Building: DEWATER

Emission Point: 1BLR4

Height (ft.): 87

Diameter (in.): 24

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NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: DEWATER
Emission Point: 1BLR5		
Height (ft.): 76	Diameter (in.): 30	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: MAIN
Emission Point: SBLRS		
Height (ft.): 117	Diameter (in.): 30	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: DOCK

Item 33.3(From Mod 0):

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

Emission Unit: 2-WWTRE		
Emission Point: 4401A		
Height (ft.): 95	Diameter (in.): 30	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: CENTRES
Emission Point: 4402A		
Height (ft.): 95	Diameter (in.): 30	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: CENTRES
Emission Point: 4403A		
Height (ft.): 95	Diameter (in.): 30	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: CENTRES
Emission Point: 4404A		
Height (ft.): 95	Diameter (in.): 30	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: CENTRES
Emission Point: 4405A		
Height (ft.): 95	Diameter (in.): 54	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: CENTRES
Emission Point: PICC1		
Height (ft.): 10	Diameter (in.): 12	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: PINFLC
Emission Point: PICC2		
Height (ft.): 10	Diameter (in.): 12	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: PINFLC
Emission Point: PICC3		
Height (ft.): 10	Diameter (in.): 12	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: PINFLC
Emission Point: PICC4		
Height (ft.): 10	Diameter (in.): 12	
NYTMN (km.): 4517.6	NYTME (km.): 594.	Building: PINFLC

Item 33.4(From Mod 0):

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

Emission Unit: 3-SLUDG

Emission Point: ADOOC

Height (ft.): 12

NYTMN (km.): 4517.6

Diameter (in.): 12

NYTME (km.): 594.

Building: ADTKSB

Emission Point: DEWB1

Height (ft.): 70

NYTMN (km.): 4517.6

Diameter (in.): 44

NYTME (km.): 594.

Building: DEWATER

Emission Point: DEWB2

Height (ft.): 70

NYTMN (km.): 4517.6

Diameter (in.): 44

NYTME (km.): 594.

Building: DEWATER

Emission Point: DEWB3

Height (ft.): 70

NYTMN (km.): 4517.6

Diameter (in.): 44

NYTME (km.): 594.

Building: DEWATER

Emission Point: DEWB4

Height (ft.): 70

NYTMN (km.): 4517.6

Diameter (in.): 44

NYTME (km.): 594.

Building: DEWATER

Emission Point: DEWC1

Height (ft.): 70

NYTMN (km.): 4517.6

Diameter (in.): 24

NYTME (km.): 594.

Building: DEWATER

Emission Point: DEWC2

Height (ft.): 70

NYTMN (km.): 4517.6

Diameter (in.): 24

NYTME (km.): 594.

Building: DEWATER

Emission Point: GTDOC

Height (ft.): 12

NYTMN (km.): 4517.6

Diameter (in.): 12

NYTME (km.): 594.

Building: GTTKSB

Emission Point: SST10

Height (ft.): 31

NYTMN (km.): 4517.6

Diameter (in.): 24

NYTME (km.): 594.

Building: OUTDOOR

Item 33.5(From Mod 0):

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

Emission Unit: 4-WDGBR

Emission Point: FLAR1

Height (ft.): 29

NYTMN (km.): 4517.6

Diameter (in.): 72

NYTME (km.): 594.

Building: OUTDOOR

Emission Point: FLAR2

Height (ft.): 29

NYTMN (km.): 4517.6

Diameter (in.): 72

NYTME (km.): 594.

Building: OUTDOOR

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Emission Point: FLAR3
Height (ft.): 29 Diameter (in.): 72
NYTMN (km.): 4517.6 NYTME (km.): 594. Building: OUTDOOR

Item 33.6(From Mod 0):

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

Emission Unit: 5-MISCS

Emission Point: 5ETG1
Height (ft.): 50 Diameter (in.): 84
NYTMN (km.): 4517.6 NYTME (km.): 594. Building: EMERGENCY

Emission Point: 5ETG2
Height (ft.): 50 Diameter (in.): 84
NYTMN (km.): 4517.6 NYTME (km.): 594. Building: EMERGENCY

Item 33.7(From Mod 1):

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

Emission Unit: T-BOILE

Emission Point: TBLR1
Height (ft.): 21 Diameter (in.): 24
NYTMN (km.): 4517.6 NYTME (km.): 594. Building: OUTDOOR

Emission Point: TBLR2
Height (ft.): 21 Diameter (in.): 24
NYTMN (km.): 4517.6 NYTME (km.): 594. Building: OUTDOOR

Condition 34: Process Definition By Emission Unit

Effective between the dates of 05/02/2004 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 34.1(From Mod 5):

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

Emission Unit: 5-MISCS
Process: ETG Source Classification Code: 2-01-001-02
Process Description:
FIRING DIESEL FUEL IN SIX (6) EMERGENCY
DIESEL ENGINE GENERATOR SETS.

Emission Source/Control: EEGS1 - Combustion
Design Capacity: 2,000 kilowatt hours

Emission Source/Control: EEGS2 - Combustion
Design Capacity: 2,000 kilowatt hours

Emission Source/Control: EEGS3 - Combustion

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Design Capacity: 2,000 kilowatt hours

Emission Source/Control: EEGS4 - Combustion

Design Capacity: 2,000 kilowatt hours

Emission Source/Control: EEGS5 - Combustion

Design Capacity: 2,000 kilowatt hours

Emission Source/Control: EEGS6 - Combustion

Design Capacity: 2,000 kilowatt hours

Item 34.2(From Mod 1):

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

Emission Unit: 1-BLERS

Process: BL0

Source Classification Code: 1-03-007-01

Process Description:

THIS PROCESS INCLUDES OPERATION OF THE PLANTS EXISTING BOILERS. THESE BOILERS INCLUDE TWO DUAL FUEL KEWANEE 200 HP BOILERS INSTALLED IN 1941 AND TWO CLEAVER BROOKS 400 HP DUAL FUEL BOILERS INSTALLED IN 1974. THESE BOILERS FIRE SLUDGE DIGESTER GAS AND NATURAL GAS (FUEL OIL IS AVAILABLE FOR EMERGENCY BACKUP BUT IS NOT USED). THESE BOILERS WILL BE REMOVED FROM OPERATION BEFORE THE PROPOSED FIVE NEW BOILERS UNDER THE PROCESS BL1 ARE IN OPERATION.

Emission Source/Control: BLRD1 - Combustion

Design Capacity: 16.7 million Btu per hour

Emission Source/Control: BLRD2 - Combustion

Design Capacity: 16.7 million Btu per hour

Emission Source/Control: BLRN1 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN2 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN3 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN4 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN5 - Combustion

Design Capacity: 29.7 million Btu per hour

Item 34.3(From Mod 1):

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

Emission Unit: 1-BLERS

Process: BL1

Source Classification Code: 1-03-007-01

Process Description:

FIRING DIGESTER GAS. THE FOLLOWING TWO (2) EXISTING 400 HP CLEAVER BROOKS BOILERS WILL REMAIN IN THE DEWATERING BUILDING. THE BOILERS CAN OPERATE ON DIGESTER GAS OR NATURAL GAS, OR FUEL OIL. ONE BOILER WILL BE IN OPERATION AT A TIME, ONE UNIT WILL BE BACKUP.

Emission Source/Control: BLRD1 - Combustion

Design Capacity: 16.7 million Btu per hour

Emission Source/Control: BLRD2 - Combustion

Design Capacity: 16.7 million Btu per hour

Item 34.4(From Mod 4):

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

Emission Unit: 1-BLERS

Process: BL2

Source Classification Code: 1-03-006-02

Process Description:

FIRING NATURAL GAS. THE FOLLOWING TWO (2) EXISTING 400 HP CLEAVER BROOKS BOILERS WILL REMAIN IN THE DEWATERING BUILDING. THE BOILERS CAN OPERATE ON DIGESTER GAS OR NATURAL GAS, OR FUEL OIL. ONE BOILER WILL BE IN OPERATION AT A TIME, ONE UNIT WILL BE BACKUP.

Emission Source/Control: BLRD1 - Combustion

Design Capacity: 16.7 million Btu per hour

Emission Source/Control: BLRD2 - Combustion

Design Capacity: 16.7 million Btu per hour

Item 34.5(From Mod 1):

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

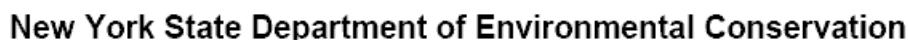
Emission Unit: 1-BLERS

Process: BL3

Source Classification Code: 1-03-005-02

Process Description:

FIRING #2 FUEL OIL. THE FOLLOWING TWO (2) EXISTING 400 HP CLEAVER BROOKS BOILERS WILL REMAIN IN THE DEWATERING BUILDING. THE BOILERS CAN OPERATE ON DIGESTER GAS OR NATURAL GAS, OR FUEL OIL. ONE BOILER WILL BE IN OPERATION AT A TIME, ONE UNIT WILL BE BACKUP.



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Emission Source/Control: BLRD2 - Combustion
Design Capacity: 16.7 million Btu per hour

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

Emission Source/Control: BLRN5 - Combustion
Design Capacity: 29.7 million Btu per hour

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

Emission Source/Control: BLRN2 - Combustion

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Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN3 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN4 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN5 - Combustion

Design Capacity: 29.7 million Btu per hour

Item 34.8(From Mod 1):

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

Emission Unit: 1-BLERS

Process: BM3

Source Classification Code: 1-03-005-02

Process Description:

FIRING #2 FUEL OIL. THIS PROCESS INCLUDES OPERATION OF THE PLANT'S BOILERS IN THE MAIN BUILDING. THESE BOILERS FIRE SLUDGE DIGESTER GAS AND NATURAL GAS (FUEL OIL IS AVAILABLE FOR EMERGENCY BACKUP, BUT NOT USED).

Emission Source/Control: BLRN1 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN2 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN3 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN4 - Combustion

Design Capacity: 29.7 million Btu per hour

Emission Source/Control: BLRN5 - Combustion

Design Capacity: 29.7 million Btu per hour

Item 34.9(From Mod 2):

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

Emission Unit: 1-BLERS

Process: SBG

Source Classification Code: 1-03-006-02

Process Description:

Firing natural gas in the boiler supplying heat to sludge vessel docked at Hunts Point WPCP.

Emission Source/Control: SBLR1 - Combustion

Design Capacity: 16.8 million Btu per hour

Item 34.10(From Mod 2):

New York State Department of Environmental Conservation

Permit ID: 2-6007-00025/02005

Facility DEC ID: 2600700025



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

Emission Unit: 1-BLERS

Process: SBO

Source Classification Code: 1-03-005-02

Process Description:

Firing #2 fuel oil in the boiler supplying heat to sludge vessel docked at Hunts Point WPCP.

Emission Source/Control: SBLR1 - Combustion

Design Capacity: 16.8 million Btu per hour

Item 34.11(From Mod 1):

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

Emission Unit: 2-WWTRE

Process: AST

Source Classification Code: 5-01-007-31

Process Description:

THIS PROCESS IS THE PLANT ACTIVATED SLUDGE AERATION (AS) COMPLEX CONSISTING OF SIX (6) AERATION TANKS. IN THIS PROCESS, THE EFFLUENT FROM THE PRIMARY TREATMENT SECTION CONTAINING MAINLY COLLOIDAL AND DISSOLVED SOLIDS (BOTH INORGANIC AND ORGANIC) ARE TREATED BIOLOGICALLY BY UTILIZING MANY DIFFERENT TYPES OF MICROORGANISMS IN A CONTROLLED ENVIRONMENT. LARGE AMOUNT OF AIR IS PUMPED INTO AERATION TANKS MIXING THE WASTEWATER AND SLUDGE RETURNED FROM THE PLANT'S FINAL SETTLING TANKS. THIS SPEEDS THE GROWTH OF THE OXYGEN-USING BACTERIA AND OTHER TINY ORGANISMS THAT ARE NATURALLY PRESENT IN THE SEWAGE. THESE BENEFICIAL MICROORGANISMS CONSUME MOST OF THE REMAINING ORGANIC POLLUTANTS PRODUCING HEAVIER PARTICLES WHICH SETTLE OUT LATER IN THE FINAL SETTLING TANKS. AERTW - AERATION WEST COMPLEX - 4 TANKS. AERTE - AERATION EAST COMPLEX - 2 TANKS. THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW (200MGD).

Emission Source/Control: AERTE - Process

Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process

Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process

Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process

Design Capacity: 200,000,000 gallons per day

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Emission Source/Control: CRBLD - Process

Emission Source/Control: FOREB - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process
Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process
Design Capacity: 122,000,000 gallons per day

Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process
Design Capacity: 133,000,000 gallons per day

Item 34.12(From Mod 1):

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 PLANT CHLORINE CONTACT (CC) DISINFECTION PROCESS CONSISTING OF TWO (2) TANKS. THE WASTEWATER FROM THE FINAL SETTLING TANKS FLOWS TO THE CHLORINE CONTACT TANKS WHERE SODIUM HYPOCHLORITE IS ADDED TO DISINFECT AND KILL THE HARMFUL DISEASE-CAUSING ORGANISMS. THE TREATED WASTEWATER (EFFLUENT) IS THEN RELEASED TO LOCAL WATERWAYS. CCTNK - CHLORINE CONTACT TANKS. THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW (200 MGD).

Emission Source/Control: AERTE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process
Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process

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Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CRBLD - Process

Emission Source/Control: FOREB - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process
Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process
Design Capacity: 122,000,000 gallons per day

Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process
Design Capacity: 133,000,000 gallons per day

Item 34.13(From Mod 1):

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

Emission Unit: 2-WWTRE

Process: CEC

Source Classification Code: 5-01-007-99

Process Description:

THIS PROCESS INCLUDES THE ONE (1) PLANT
CENTRATE EQUALIZATION TANK TO BE
CONSTRUCTED WITH DUAL STAGE WET SCRUBBER
AND ACTIVATED CARBON ODOR CONTROL:
CEQL1-CENTRATE EQUALIZATION TANK
VENTILATION ODOR CONTROL UNIT 1.
CEQL2-CENTRATE EQUALIZATION TANK VENTIL
ATION ODOR CONTROL UNIT 2. ONE UNIT WILL
BE IN OPERATION AT A TIME, ONE UNIT FOR
BACKUP.

Emission Source/Control: AERTE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process

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Facility DEC ID: 2600700025



Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CRBLD - Process

Emission Source/Control: FOREB - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process
Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process
Design Capacity: 122,000,000 gallons per day

Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process
Design Capacity: 133,000,000 gallons per day

Item 34.14(From Mod 1):

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

Emission Unit: 2-WWTRE

Process: CRB

Source Classification Code: 5-01-007-99

Process Description:

THIS PROCESS INCLUDES THE NEW CENTRAL
RESIDUALS BUILDING ACTIVATED CARBON ODOR
CONTROL SYSTEM. SEVEN ACTIVATED CARBON
VESSELS SHARING FIVE (5) EXHAUST STACKS
WILL BE INSTALLED IN THE NEW CENTRAL
RESIDUALS BUILDING. C4401 - CENTRAL
RESIDUAL BUILDING VENTILATION CARBON
ADSORBER UNIT 1. C4402 - CENTRAL RESIDUAL
BUILDING VENTILATION CARBON ADSORBER UNIT
2. C4403 - CENTRAL RESIDUAL BUILDING
VENTILATION CARBON ADSORBER UNIT 3. C4404
- CENTRAL RESIDUAL BUILDING VENTILATION

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CARBON ADSORBER UNIT 4. C4405 - CENTRAL
RESIDUAL BUILDING VENTILATION CARBON
ADSORBER UNIT 5. C4406 - CENTRAL RESIDUAL
BUILDING VENTILATION CARBON ADSORBER UNIT
6. C4407 - CENTRAL RESIDUAL BUILDING
VENTILATION CARBON ADSORBER UNIT 7.

Emission Source/Control: AERTE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process
Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CRBLD - Process

Emission Source/Control: FOREB - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process
Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process
Design Capacity: 122,000,000 gallons per day

Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process
Design Capacity: 133,000,000 gallons per day

Item 34.15(From Mod 1):

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



(FS) COMPLEX CONSISTING OF FOUR (4) GROUPS OF FINAL SETTLING TANKS, NORTH, SOUTH, EAST, WEST. THE AERATED WASTEWATER FROM THE AERATION TANKS FLOWS TO THE FINAL SETTLING TANKS (SIMILAR TO PRIMARY SETTLING TANKS) WHERE THE MICROORGANISMS AND SOLID WASTE GENERATED DURING THE ACTIVATED SLUDGE PROCESS FROM CLUMPS AND SETTLE OUT OF THE WASTEWATER. SOME OF THE SLUDGE IS ROUTED BACK TO THE AERATION TANKS AS "SEED" TO STIMULATE THE ACTIVATED SLUDGE PROCESS. FSTCN - FINAL SETTLING TANKS NORTH COMPLEX - 2 TANKS. FSTCS - FINAL SETTLING TANKS SOUTH COMPLEX - 2 TANKS. FSTCE - FINAL SETTLING TANKS EAST COMPLEX - 6 TANKS. FSTCW - FINAL SETTLING TANKS WEST COMPLEX - 16 TANKS. THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW (200MGD).

Emission Source/Control: AERTE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process
Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CRBLD - Process

Emission Source/Control: FOREB - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process
Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process
Design Capacity: 122,000,000 gallons per day

Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process

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Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process

Design Capacity: 133,000,000 gallons per day

Item 34.16(From Mod 1):

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

Emission Unit: 2-WWTRE

Process: PCC

Source Classification Code: 5-01-007-20

Process Description:

THIS PROCESS IS THE PLANT PRIMARY CLARIFIER (PCC) COMPLEX CONSISTING OF SIX (6) PRIMARY SETTLING TANKS. THIS PROCESS SLOWS DOWN THE WASTEWATER FLOW AND ALLOWS THE LARGE INORGANIC SOLIDS SUCH AS SAND, CINDERS, AND GRAVEL (CALLED GRIT) TO SETTLE AT THE BOTTOM BEFORE GOING INTO THE ACTIVATED SLUDGE PROCESS. THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW OF 200 MGD. PCLAE - PRIMARY CLARIFIER TANKS EAST - 2 TANKS, PCLAW - PRIMARY CLARIFIER TANK WEST - 4 TANKS.

Emission Source/Control: AERTE - Process

Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process

Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process

Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process

Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CRBLD - Process

Emission Source/Control: FOREB - Process

Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process

Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process

Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process

Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process

Design Capacity: 122,000,000 gallons per day

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Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process
Design Capacity: 133,000,000 gallons per day

Item 34.17(From Mod 1):

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 HEADWORKS (PHW) INCLUDING THE FOREBAY, BAR SCREENS AND PRIMARY INFLUENT CHANNELS. THE BAR SCREENS CONSIST OF UPRIGHT BARS SPACED ONE TO THREE INCHES APART. THE PRIMARY PURPOSE OF THE BAR SCREENS IS TO REMOVE LARGE PIECES OF TRASH (RAGS, STICKS, NEWSPAPERS, CANS, ETC.) FOR THE PROTECTION OF THE MAIN SEWAGE PUMPS AND OTHER EQUIPMENT. THE EXHAUST FROM THE SCREENING ROOMS WILL BE TREATED AT THE NEW CENTRAL RESIDUALS BUILDING WITH ACTIVATED CARBON ADSORBERS. THE PRIMARY TANK INFLUENT CHANNELS WILL BE COVERED AND THE EXHAUST WILL BE TREATED WITH ACTIVATED CARBON ADSORBERS. FOREB - FOREBAY, BSCRN - BAR SCREENS, PCHAN - PRIMARY INFLUENT CHANNEL, 2201A, 2203A, 2205A, 2206A - ODOR CONTROL CARBON VESSELS FOR PRIMARY TANK INFLUENT CHANNEL VENTILATION 1,2 3 AND 4. THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW OF 200 MGD.

Emission Source/Control: AERTE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: AERTW - Process
Design Capacity: 133,000,000 gallons per day

Emission Source/Control: BSCRN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CCTNK - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: CRBLD - Process

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Emission Source/Control: FOREB - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: FSTCE - Process
Design Capacity: 46,000,000 gallons per day

Emission Source/Control: FSTCN - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCS - Process
Design Capacity: 16,000,000 gallons per day

Emission Source/Control: FSTCW - Process
Design Capacity: 122,000,000 gallons per day

Emission Source/Control: PCHAN - Process
Design Capacity: 200,000,000 gallons per day

Emission Source/Control: PCLAE - Process
Design Capacity: 67,000,000 gallons per day

Emission Source/Control: PCLAW - Process
Design Capacity: 133,000,000 gallons per day

Item 34.18(From Mod 4):

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

Emission Unit: 3-SLUDG
Process: DST
Source Classification Code: 5-01-007-99
Process Description:

THE SLUDGE STORAGE TANKS WILL BE COVERED
AND THE EXHAUST WILL BE VENTED TO TWO (2)
ACTIVATED CARBON ADSORBER UNITS.

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

Emission Source/Control: DWBV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

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Emission Source/Control: DWCV2 - Control
Control Type: WET SCRUBBER

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

Emission Source/Control: STK10 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process
Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.19(From Mod 4):

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

Emission Unit: 3-SLUDG
Process: GHT Source Classification Code: 5-01-007-99
Process Description:
THE PROCESS CONSISTS OF THE PLANT'S SLUDGE
DIGESTER GAS HOLDING TANK. DIGESTER GAS
PRODUCED IN THE DIGESTER TANKS WILL BE
STORED IN THIS TANK FOR LATER USE AT
COMBUSTION UNITS. THE TOTAL THRUPUT IS
ESTIMATED BASED ON THE DESIGN SLUDGE
DIGESTER GAS PRODUCTION.

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Item 34.20(From Mod 4):

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

Emission Unit: 3-SLUDG
Process: SAD Source Classification Code: 5-01-007-81
Process Description:
THIS PROCESS IS THE PLANT'S SLUDGE
ANAEROBIC DIGESTER (SAD) PROCESS INCLUDING
4 ANAEROBIC DIGESTION TANKS. AFTER SLUDGE
GRAVITY THICKENING, FOR MAKING IT SAFER FOR
THE ENVIRONMENT, THE SLUDGE IS PLACED IN
OXYGEN-FREE TANKS CALLED DIGESTERS.



DIGESTERS ARE HEATED UP AT LEAST 95 DEGREE OF FAHRENHEIT 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. THE DIGESTED SLUDGE IS PUMPED FROM DIGESTER TANKS TO THE DEWATERING FACILITIES. PROCESS THROUGHPUT IS BASED ON SLUDGE DESIGN CAPACITY OF 230000 LB/DAY. A SINGLE BED ACTIVATED CARBON ADSORPTION UNIT (ADOCU) IS INSTALLED AT THE ANAEROBIC DIGESTERS OVERFLOW-BOX FOR H₂S ODOR CONTROL PURPOSE.

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

Emission Source/Control: DWBV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control
Control Type: WET SCRUBBER

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

Emission Source/Control: STK10 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process
Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

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Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.21(From Mod 4):

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

Emission Unit: 3-SLUDG

Process: SDB

Source Classification Code: 5-01-007-71

Process Description:

THIS PROCESS INCLUDES THE EXISTING SLUDGE THICKENER DISTRIBUTION BOX. AN ACTIVATED CARBON UNIT IS INSTALLED FOR H₂S ODOR CONTROL PURPOSE. THIS UNIT WILL BE REMOVED IN THE PLANT UPGRADE. THE TOTAL THRUPUT IS BASED ON THE ODOR CONTROL SYSTEM DESIGNED VENTILATION AIR FLOW CAPACITY.

Emission Source/Control: ADOCU - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: DWBV1 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DWBV2 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control

Control Type: WET SCRUBBER

Emission Source/Control: GTDCU - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: STK10 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process

Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

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Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.22(From Mod 4):

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

Emission Unit: 3-SLUDG

Process: SDW

Source Classification Code: 5-01-007-92

Process Description:

THIS PROCESS IS THE PLANT'S SLUDGE DEWATERING (SDW) PROCESS IN THE DEWATERING FACILITY. UNDER THIS PROCESS, SLUDGE WILL BE FURTHER CONCENTRATED BY MECHANICAL MEANS, LIKE CENTRIFUGES AND PRESSES, TO REMOVE WATER. WET SCRUBBERS AND ACTIVATED CARBON ADSORBERS ARE INSTALLED FOR H2S ODOR CONTROL PURPOSE. FOUR (4) WET SCRUBBER UNITS ARE INSTALLED FOR THE BUILDING VENTILATION BUT ONLY THREE OF THE FOUR UNITS ARE ON-LINE AT A TIME, ONE UNIT IS BACKUP. TWO (2) DOUBLE STAGE SYSTEMS COMPRISED WITH WET SCRUBBERS FOLLOWED BY ACTIVATED CARBON ADSORBERS ARE INSTALLED FOR VENTILATION OF THE CENTRIFUGES OPERATION, BUT ONLY ONE SYSTEM IS ON-LINE AT A TIME AND THE OTHER ONE IS BACKUP.

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

Emission Source/Control: DWBV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control

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Control Type: WET SCRUBBER

Emission Source/Control: GTDCU - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: STK10 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process

Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process

Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process

Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process

Design Capacity: 1,468,000 cubic feet

Item 34.23(From Mod 4):

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

Emission Unit: 3-SLUDG

Process: SGT

Source Classification Code: 5-01-007-71

Process Description:

THIS PROCESS IS THE PLANT'S SLUDGE GRAVITY THICKENING (SGT) PROCESS INCLUDING 12 SLUDGE GRAVITY THICKENERS EACH WITH VOLUME OF 41,400 CUBIC FEET. THE SLUDGE FROM PRIMARY AND SETTLING (APPROXIMATELY 99% WATER) IS CONCENTRATED IN THESE THICKENING TANKS. THE WATER IS SENT BACK TO THE HEAD OF THE PLANT OR AERATION TANKS FOR ADDITIONAL TREATMENT. PROCESS THROUGHPUT IS BASED ON SLUDGE DESIGN CAPACITY OF 230000 LB/DAY. A SINGLE BED ACTIVATED CARBON ADSORPTION UNIT (GTDCU) IS INSTALLED AT THE GRAVITY THICKENING TANKS DISTRIBUTION-BOX FOR H2S ODOR CONTROL PURPOSE.

Emission Source/Control: ADOCU - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: DWBV1 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DWBV2 - Control

Control Type: WET SCRUBBER

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Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control
Control Type: WET SCRUBBER

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

Emission Source/Control: STK10 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process
Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.24(From Mod 4):

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

Emission Unit: 3-SLUDG

Process: SLT

Source Classification Code: 5-01-007-71

Process Description:

THE SLUDGE THICKENERS WILL BE COVERED AND THE EXHAUST WILL BE VENTED TO THREE (3) NEW ACTIVATED CARBON ADSORBER ODOR CONTROL UNITS. THE NEW DIGESTER OVERFLOW CONTROL BOXES WILL BE VENTED TO THE SLUDGE THICKENER ODOR CONTROL UNITS.

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

Emission Source/Control: DWBV1 - Control
Control Type: WET SCRUBBER

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Emission Source/Control: DWBV2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control
Control Type: WET SCRUBBER

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

Emission Source/Control: STK10 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process
Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.25(From Mod 4):

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

Emission Unit: 3-SLUDG

Process: SOB

Source Classification Code: 5-01-007-81

Process Description:

THIS PROCESS IS THE EXISTING SLUDGE
DIGESTER OVERFLOW BOXES. AN ACTIVATED
CARBON UNIT IS INSTALLED FOR H₂S ODOR
CONTROL PURPOSE. THIS UNIT WILL BE REMOVED
IN THE PLANT UPGRADE.

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

Emission Source/Control: DWBV1 - Control
Control Type: WET SCRUBBER

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Emission Source/Control: DWBV2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control
Control Type: WET SCRUBBER

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

Emission Source/Control: STK10 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process
Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.26(From Mod 4):

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

Emission Unit: 3-SLUDG

Process: SST

Source Classification Code: 5-03-007-81

Process Description:

THIS PROCESS IS THE PLANT'S SLUDGE STORAGE (SS) PROCESS INCLUDING FIVE (5) SLUDGE STORAGE TANKS. EXCESSIVE SLUDGE WILL BE STORED IN THESE STORAGE TANKS. PROCESS THROUGHPUT IS BASED ON SLUDGE DESIGN CAPACITY OF 230,000 LB/DAY. SLUDGE STORAGE TANKS #5 AND #6 @ 373,000 CUBIC FEET EACH. SLUDGE STORAGE TANK #8 @ 372,000 CUBIC FEET. SLUDGE STORAGE TANK #9 @ 100,000 CUBIC FEET. SLUDGE STORAGE TANK #10 @

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250,000 CUBIC FEET. A DUAL-BED ACTIVATED
CARBON ADSORPTION UNIT (STK10) IS INSTALLED
AT THE STORAGE TANK FOR H₂S ODOR CONTROL
PURPOSE.

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

Emission Source/Control: DWBV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBV4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWCV2 - Control
Control Type: WET SCRUBBER

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

Emission Source/Control: STK10 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ADTKS - Process
Design Capacity: 1,476,000 cubic feet

Emission Source/Control: DEWAT - Process

Emission Source/Control: GHOLD - Process
Design Capacity: 240,000 cubic feet

Emission Source/Control: GTTKS - Process
Design Capacity: 496,800 cubic feet per minute

Emission Source/Control: SSTKS - Process
Design Capacity: 1,468,000 cubic feet

Item 34.27(From Mod 1):

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

Emission Unit: 4-WDGBR

Process: WBO

Source Classification Code: 5-01-007-89

Process Description:

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Permit ID: 2-6007-00025/02005

Facility DEC ID: 2600700025



THIS PROCESS INCLUDES THE SIX EXISTING WASTE DIGESTER GAS BURNERS TO FLARE EXCESSIVE SLUDGE DIGESTER GAS. THE DIGESTER GAS BURNERS WILL BE REMOVED FROM OPERATION BEFORE THE PROPOSED FOUR NEW DIGESTER GAS BURNERS UNDER THE PROCESS WDB ARE IN OPERATION. SAME AS THE PROCESS WDB, ASSUMING 50% OF THE SLUDGE DIGESTER GAS PRODUCED BY THE PLANT WILL BE FLARED.

Emission Source/Control: WDGB1 - Combustion
Design Capacity: 21.3 million Btu per hour

Emission Source/Control: WDGB2 - Combustion
Design Capacity: 21.3 million Btu per hour

Emission Source/Control: WDGB3 - Combustion
Design Capacity: 21.3 million Btu per hour

Item 34.28(From Mod 1):

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

Emission Unit: 4-WDGBR

Process: WDB

Source Classification Code: 5-01-007-89

Process Description:

THIS PROCESS INCLUDES THE PLANT'S WASTE DIGESTER GAS BURNER. AT TIMES DIGESTER GAS PRODUCED BY THE PLANT IS MORE THAN THE DEMAND OF THE PLANT PROCESSES, PARTICULARLY IN THE SUMMER, EXCESS DIGESTER GAS WILL BE FLARED AT THESE WASTE DIGESTER GAS BURNERS. THERE ARE CURRENTLY SIX (6) BURNERS AT THE PLANT ON THE ROOF OF THE DIGESTER BUILDING. THESE SIX EXISTING WASTE DIGESTER GAS BURNERS WILL BE REPLACED WITH THREE (3) NEW WASTE DIGESTER GAS BURNERS. THE TOTAL THROUGHPUT IS AN ESTIMATE ACCORDING TO THE DESIGN DIGESTER PRODUCTION AND DEMAND ON AN ANNUAL BASIS.

Emission Source/Control: WDGB1 - Combustion
Design Capacity: 21.3 million Btu per hour

Emission Source/Control: WDGB2 - Combustion
Design Capacity: 21.3 million Btu per hour

Emission Source/Control: WDGB3 - Combustion
Design Capacity: 21.3 million Btu per hour

Item 34.29(From Mod 1):

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

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Permit ID: 2-6007-00025/02005

Facility DEC ID: 2600700025



Emission Unit: 5-MISCS

Process: MTK

Source Classification Code: 4-07-158-01

Process Description:

THIS PROCESS INCLUDES FIVE (5) METHANOL STORAGE TANKS TO BE INSTALLED AT THE PLANT AS PART OF THE STEP BNR (BIOLOGICAL NUTRIENT REMOVAL) PROCESS. EACH TANK HAS 12,000 GALLON STORAGE CAPACITY. THESE METHANOL STORAGE TANKS WILL HAVE PHASE I VAPOR RECOVERY SYSTEM SIMILAR TO A GASOLINE STATION.

Emission Source/Control: MTANK - Process

Design Capacity: 60,000 gallons

Item 34.30(From Mod 1):

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

Emission Unit: T-BOILE

Process: RB1

Source Classification Code: 1-03-007-01

Process Description: Firing digester gas in two rental boilers.

Emission Source/Control: RBLR1 - Combustion

Design Capacity: 14.7 million Btu per hour

Emission Source/Control: RBLR2 - Combustion

Design Capacity: 14.7 million Btu per hour

Item 34.31(From Mod 1):

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

Emission Unit: T-BOILE

Process: RDO

Source Classification Code: 1-03-005-02

Process Description: Firing diesel fuel oil in two rental boilers.

Emission Source/Control: RBLR1 - Combustion

Design Capacity: 14.7 million Btu per hour

Emission Source/Control: RBLR2 - Combustion

Design Capacity: 14.7 million Btu per hour

