



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6105-00009/02003
Mod 0 Effective Date: 06/29/2006 Expiration Date: No expiration date.

Mod 1 Effective Date: 10/25/2011 Expiration Date: No expiration date.

Mod 2 Effective Date: 08/23/2011 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 26TH WARD WPCP
122-68 FLATLANDS AVE
BROOKLYN, NY 12207

Description:
26TH WARD WWTP IS A MUNICIPAL WASTEWATER TREATMENT PLANT CAPABLE OF PROVIDING TREATMENT FOR 85 MILLION GALLONS PER DAY OF PRIMARILY RESIDENTIAL WASTEWATER. THERE IS A SLUDGE DEWATERING FACILITY ASSOCIATED WITH THE WASTEWATER TREATMENT PLANT.

THIS PERMIT MODIFICATION IS SUBMITTED FOR THE FOLLOWING PROJECTS TO BE UNDERTAKEN AT DEP'S 26TH WARD WATER POLLUTION CONTROL PLANT.

1. FOR REPLACEMENT OF THE PLANT'S EXISTING TWO EMERGENCY TURBINE GENERATORS AND TWO BLACK START GENERATORS WITH THREE 2500KW MEDIUM SPEED DIESEL GENERATORS AND ONE 600KW BLACKSTART DIESEL GENERATOR UNDER THE EMERGENCY GENERATOR SYSTEM PROJECT.

AS PART OF THE ONGOING PLANT UPGRADE, DEP WILL REPLACE THE WWTP'S EXISTING TWO 3500KW EUROPEAN GAS TURBINE GENERATORS, ONE 185 HP DETROIT DIESEL BLACKSTART GENERATOR, AND ONE 350KW CUMMINS DIESEL GENERATOR WITH THREE 2500KW MEDIUM SPEED DIESEL GENERATORS AND ONE 600KW BLACKSTART DIESEL GENERATOR. THIS REPLACEMENT WILL INCREASE THE WWTP'S RELIABILITY TO PROVIDE SUFFICIENT CRITICAL EMERGENCY POWER SUPPORT FOR THE FACILITY TO ACHIEVE A MINIMUM OF PRIMARY TREATMENT AND DISINFECTION OF TWO TIMES THE PERMITTED FLOW, AS REQUIRED PURSUANT TO THE SPDES PERMIT. ASIDE FROM PERIODIC



ENGINE MAINTENANCE AND TESTING OPERATION, THE NEW GENERATORS WILL BE USED DURING EMERGENCY POWER SITUATIONS ONLY.

DURING THE CONSTRUCTION PERIOD, SIX INTERIM 1000KW RENTAL ENGINE GENERATORS WILL BE INSTALLED TO PROVIDE EMERGENCY POWER TO THE WWTP IF THERE IS AN EMERGENCY POWER SITUATION. THESE INTERIM UNITS WILL BE REMOVED FROM THE WWTP AFTER THE NEW PERMANENT GENERATORS ARE AVAILABLE FOR OPERATION.

2. FOR CONSTRUCTION OF A 1.2 MGD CENTRATE PROCESSING RESEARCH PILOT FACILITY WITHIN THE UNDER-UTILIZED CAKE STORAGE BUILDING.

A BIOLOGICAL NUTRIENT REMOVAL AND AMMONIA STRIPPING PILOT STUDY, FOR RESEARCH AND DEVELOPMENT PURPOSE, IS CURRENTLY IN PROGRESS AT THE WWTP AND IS CONSIDERED AN EXEMPT SOURCE.

DEP IS PLANNING TO CONSTRUCT A 1.2 MGD (MILLION GALLONS PER DAY) CENTRATE PROCESSING PILOT FACILITY WITHIN THE 26TH WARD WWTP CAKE STORAGE BUILDING FOR RESEARCH PURPOSES. THE WORK UNDER THIS CONTRACT FOR THE PILOT FACILITY INCLUDES THE INSTALLATION OF A 1.2 MGD AMMONIA RECOVERY PROCESS (ARP) AND TWO 12 MILLION BTU/HR BOILERS. ONE BOILER IS EXPECTED TO BE OPERATED ANNUALLY AT AN AVERAGE OF 50% CAPACITY AND THE SECOND BOILER WILL BE MAINTAINED AS A STANDBY.

SINCE 26TH WARD WWTP PRESENTLY TREATS NEARLY ALL THE CENTRATE FROM THE JAMAICA WPCP, IF SUCCESSFUL, THIS PILOT PROJECT WILL SIGNIFICANTLY REDUCE NITROGEN DISCHARGE TO JAMAICA BAY.

3. FOR REMOVAL OF THE PROCESS PAE UNDER THE EMISSION UNIT 1-COMBU.

THE PUMP AROUND OPERATION USING NINE (9) 151 HP ENGINES LISTED IN THE EXISTING PERMIT, IS NO LONGER NEEDED SO IT CAN BE REMOVED FROM THE PROCESS PAE AND ITS ASSOCIATED SOURCE OF HP AE1, HP AE2, HP AE3, HP AE4, HP AE5, LP AE1, LP AE2, LP AE3, AND LP AE4.

4. THE FACILITY NO_x EMISSIONS ARE CAPPED AT 24.9 TONS PER YEAR.

5. OTHER PLANNED CONSTRUCTION ACTIVITIES:

THE WWTP IS CURRENTLY UNDERGOING UPGRADING CONSTRUCTION. THE FOLLOWING CONSTRUCTION ACTIVITIES HAVE BEEN PLANNED AND ARE CURRENTLY SCHEDULED TO TAKE PLACE WITHIN THE NEXT 5 YEARS

- RAW SEWAGE HEADER REPLACEMENT,
- PUMP AROUND OPERATION USING <200 HP DIESEL ENGINES WHICH ARE CONSIDERED EXEMPT SOURCES,
- RECONSTRUCTION OF DIGESTER GAS COMPRESSORS,
- ISOLATION AND SLUDGE HEAT EXCHANGER SYSTEM,
- SLUDGE HX AND RECIRC. PUMP MOTORS,
- PRIMARY AND SECONDARY SCREENS,



- IMPROVEMENT OF FLOW CAPACITY TO FRESH CREEK CSO FACILITY,
- HENDRIX CANAL INTERIM DREDGING,
- REGULATOR R-1 RECONSTRUCTION,
- PRELIMINARY TREATMENT & SOLIDS HANDLING FACILITIES,
- DIGESTERS AND THICKENERS,
- COFFERDAM,
- RAW SEWAGE PUMP STATION & MAIN SUBSTATION.

ALTHOUGH THERE ARE NO DESIGN DETAILS AVAILABLE AT THIS TIME, THE ABOVE PLANNED ACTIVITIES WILL NOT UTILIZE ADDITIONAL REGULATED SOURCES AND DEP DOES NOT ANTICIPATE THAT THE ABOVE ACTIVITIES WILL SIGNIFICANTLY AFFECT THE WWTP'S EMISSIONS OR TRIGGER TITLE V PERMIT REQUIREMENTS.

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

Applicable State Requirement: 6 NYCRR 621.11

Item 1-1.1:

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 1-1.2:

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 1-1.3:

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.

GENERAL CONDITIONS - APPLICABLE TO ALL PERMITS



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

Applicable State Requirement: 6 NYCRR 621.13

Item 1-2.1:

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



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 1-3: Submission of application for permit modification or renewal - REGION 2

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 1-3.1:

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: 2-6105-00009/02003

Facility DEC ID: 2610500009



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 26TH WARD WPCP
122-68 FLATLANDS AVE
BROOKLYN, NY 12207

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

Mod 0 Permit Effective Date: 06/29/2006
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 10/25/2011
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *1-2 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *1-3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *1-4 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 1-5 6 NYCRR 211.1: Air pollution prohibited
- 5 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
- 6 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
- 7 6 NYCRR 225-1.8: Compliance Demonstration
- 1-1 40CFR 63, Subpart ZZZZ: Engines at Area sources of HAP

Emission Unit Level

EU=1-COMBU

- 8 6 NYCRR 227-1.3 (a): Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=BSTAT

- 1-6 40CFR 60.4204(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=IENG1

- 1-7 40CFR 60.4205(a), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=IENG2

- 1-8 40CFR 60.4205(a), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=IENG3

- 1-9 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=IENG4

- 1-10 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=IENG5

- 1-11 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=IENG6

- 1-12 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=NENG1

- 1-13 40CFR 60.4204(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=NENG2

- 1-14 40CFR 60.4204(b), NSPS Subpart IIII: Compliance Demonstration

EU=1-COMBU,Proc=EMG,ES=NENG3

- 1-15 40CFR 60.4204(b), NSPS Subpart IIII: Compliance Demonstration

EU=2-WWTRE

- 9 6 NYCRR 212.3 (a): Emissions from Existing Sources

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10 6 NYCRR 212.6 (a): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 11 ECL 19-0301: Contaminant List
- 12 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 1-16 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 13 6 NYCRR Subpart 201-5: Emission Unit Definition
- 14 6 NYCRR 201-5.4 (b): Compliance Demonstration
- 15 6 NYCRR 211.2: Air pollution prohibited
- 1-17 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

- 16 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 17 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 1: Facility Permissible Emissions

New York State Department of Environmental Conservation

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Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1.1:

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

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

per year CAS No: 0NY100-00-0 (From Mod 1) PTE: 19,800 pounds
Name: HAP

per year CAS No: 0NY210-00-0 (From Mod 1) PTE: 49,800 pounds
Name: OXIDES OF NITROGEN

per year CAS No: 0NY998-00-0 (From Mod 1) PTE: 49,800 pounds
Name: VOC

Condition 1-2: Capping Monitoring Condition

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-2.1:

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 1-2.2:

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

Item 1-2.3:

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 1-2.4:

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

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applicable requirement.

Item 1-2.5:

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 1-2.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-2.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

THE HAP EMISSIONS ARE CAPPED AT 19800 LB PER YEAR FOR EACH INDIVIDUAL HAP OR 49800 LB PER YEAR FOR COMBINATION OF HAPs.

ANNUAL HAP EMISSIONS FROM WASTEWATER TREATMENT PROCESS WILL BE ESTIMATED USING THE TOXCHEM+MODEL. THE TARGET COMPOUND LIST OF HAP WILL BE SAMPLED AT THE INFLUENT AT A MINIMUM OF ONCE PER YEAR.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTEWATER

Parameter Monitored: HAP

Upper Permit Limit: 9.9 tons per year

Reference Test Method: USEPA 600 SERIES

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 1/30/2012.

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

Condition 1-3: Capping Monitoring Condition

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-3.1:

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

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otherwise be subject to:

6 NYCRR Subpart 201-6

Item 1-3.2:

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

Item 1-3.3:

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

Item 1-3.4:

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

Item 1-3.5:

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

Item 1-3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 1-3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

THE FACILITY VOC EMISSIONS ARE CAPPED AT 49800 LB PER YEAR.

ANNUAL VOC EMISSIONS FROM WASTEWATER TREATMENT PROCESS WILL BE ESTIMATED USING THE TOXCHEM+MODEL. THE TARGET COMPOUND LIST OF VOC WILL BE SAMPLED AT THE INFLUENT AT A MINIMUM OF ONCE PER YEAR.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTEWATER

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Parameter Monitored: VOC

Upper Permit Limit: 24.9 tons per year

Reference Test Method: USEPA 600 SERIES

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 1/30/2012.

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

Condition 1-4: Capping Monitoring Condition

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-4.1:

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 1-4.2:

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

Item 1-4.3:

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 1-4.4:

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 1-4.5:

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 1-4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

New York State Department of Environmental Conservation

Permit ID: 2-6105-00009/02003

Facility DEC ID: 2610500009



Item 1-4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The NOx (oxides of nitrogen) emissions are capped at 24.9 tons per year.

The owner or operator shall maintain a record of the quantity of each fuel fired at the facility. Also, the owner or operator shall calculate (based on the fuel quantity) using the following formula:

$$R(0.075) + D(0.035) + G(100) + E(0.2) + E1(0.29) + E2(0.29) + E3(0.2) + DG(100) + F(54.6) < 49,800 \text{ lbs/yr of}$$

Oxides of Nitrogen emissions.

Where:

R = 12-month rolling total of residual oil (#4 or #6) fired (from boilers) in gals/yr

D = 12-month rolling total of distillate oil fired (from boilers) in gals/yr

0.035 lb/gal - emission factor for distillate oil fired from boilers proposed by the applicant (see letter dated Aug. 16, 2005)

G = 12-month rolling total of natural gas fired (from boilers) in MMSCF/yr

E = 12-month rolling total of diesel fuel fired (from Caterpillar 600 kW engine, 2009 Model Year, emission source BSTAT) in gals/yr

-emission factor 0.2 lb/gal for firing diesel fuel is based on the emission standard provided in 40CFR 89.112;

E1 = 12-month rolling total of diesel fuel fired (from three GE2500 engines, Model 2009, emission sources NENG1, NENG2, NENG3) in gals/yr

-emission factor 0.29 lb/gal for firing diesel fuel is based on the emission standard of 9.2 g/kW-hr or 6.9 g/hp-hr provided in 40CFR 60 Subpart IIII Table 1.

E2 = 12-month rolling total of diesel fuel fired (from two interim emergency Cummins 1000kW engines, Model 2006, emission sources IENG1, IENG2) in gals/yr

-emission factor 0.29 lb/gal for firing diesel fuel is based on the emission standard of 9.2 g/kW-hr or 6.9 g/hp-hr provided in 40CFR 60 Subpart IIII Table 1.

E3 = 12-month rolling total of diesel fuel fired (from

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four interim emergency Cummins 1000 kW engines
(emission sources IENG3 2007 Model Year, IENG4 2007
Model Year, IENG5 2008 Model Year, IENG6 2010
Model Year) in gals/yr
-emission factor 0.2 lb/gal for firing diesel fuel
is based on the emission standard provided in
40CFR 89.112;
DG = 12-month rolling total of digester gas fired (from
boilers) in MMSCF/yr
F = 12-month rolling total of digester gas fired (from
flares) in MMSCF/yr

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 1-5: Air pollution prohibited

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 211.1

Item 1-5.1:

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

Condition 5: Compliance Demonstration

Effective between the dates of 06/29/2006 and Permit Expiration Date

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

Item 5.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

All New York City service contracts require suppliers to
provide fuel oils that meet the low sulfur content
requirement of 0.3% by weight for residual fuel oils.

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Upon each oil delivery the oil supplier must provide a certificate that the oil delivered meets the 0.3% by weight sulfur content limitation. A log of the sulfur content in the fuel oil received, burned or sold must be maintained by the owner or operator for the period of three years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: RESIDUAL FUEL (#4, #5 AND/OR #6 FUEL OIL)

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.3 percent by weight

Reference Test Method: EPA

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 6: Compliance Demonstration
Effective between the dates of 06/29/2006 and Permit Expiration Date

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

Item 6.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

All New York City service contracts require suppliers to provide fuel oils that meet the low sulfur content requirement of 0.2% by weight for distillate fuel oils. Upon each oil delivery the oil supplier must provide a certificate that the oil delivered meets the 0.2% by weight sulfur content limitation. A log of the sulfur content in the fuel oil received, burned or sold must be maintained by the owner or operator for the period of three years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.2 percent by weight

Reference Test Method: EPA

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Condition 7: Compliance Demonstration

Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 225-1.8

Item 7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: 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

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-1: Engines at Area sources of HAP

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 1-1.1:

Internal combustion engines, constructed or re-constructed on or after June 12, 2006, that meet the requirements of 40 CFR 60 Subpart IIII or Subpart JJJJ meet the requirements of 40 CFR 63 Subpart ZZZZ.

**** Emission Unit Level ****

Condition 8: Compliance Demonstration

Effective between the dates of 06/29/2006 and Permit Expiration Date

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

Item 8.1:

The Compliance Demonstration activity will be performed for:

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Emission Unit: 1-COMBU

Item 8.2:

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 operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-6: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.4204(b), NSPS Subpart IIII

Item 1-6.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: BSTAT

Item 1-6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later non-emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power. Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and installed and

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configured according to the manufacturer's specifications.
Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-7: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

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

Item 1-7.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: IENG1

Regulated Contaminant(s):

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

Item 1-7.2:

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

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must have been followed correctly.

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

(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 1-8: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

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

Item 1-8.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: IENG2

Regulated Contaminant(s):

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

Item 1-8.2:

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

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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.

(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 1-9: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

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

Item 1-9.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: IENG3

Item 1-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) that is not a fire pump engine and has a displacement of less than 10 liters/cylinder will require certification to the following emission standards:

1. For engines with a maximum engine power less than 37 kW (50 HP):

- 2007 model year engines - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable,

- 2008 model year and later - emission standards specified in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable.

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2. For engines with a maximum engine power greater than or equal to 37 kW (50 HP):

- 2007 model year and later - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable, for all pollutants, for the same model year and maximum engine power.

Compliance with this requirement will be established by purchasing an engine certified to the applicable emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-10: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

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

Item 1-10.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: IENG4

Item 1-10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) that is not a fire pump engine and has a displacement of less than 10 liters/cylinder will require certification to the following emission standards:

1. For engines with a maximum engine power less than 37 kW (50 HP):

- 2007 model year engines - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable,
- 2008 model year and later - emission standards specified in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable.

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2. For engines with a maximum engine power greater than or equal to 37 kW (50 HP):

- 2007 model year and later - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable, for all pollutants, for the same model year and maximum engine power.

Compliance with this requirement will be established by purchasing an engine certified to the applicable emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-11: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

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

Item 1-11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: IENG5

Item 1-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) that is not a fire pump engine and has a displacement of less than 10 liters/cylinder will require certification to the following emission standards:

1. For engines with a maximum engine power less than 37 kW (50 HP):

- 2007 model year engines - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable,

- 2008 model year and later - emission standards specified in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable.

2. For engines with a maximum engine power greater than

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or equal to 37 kW (50 HP):

- 2007 model year and later - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable, for all pollutants, for the same model year and maximum engine power.

Compliance with this requirement will be established by purchasing an engine certified to the applicable emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-12: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

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

Item 1-12.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: IENG6

Item 1-12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) that is not a fire pump engine and has a displacement of less than 10 liters/cylinder will require certification to the following emission standards:

1. For engines with a maximum engine power less than 37 kW (50 HP):

- 2007 model year engines - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable,
- 2008 model year and later - emission standards specified in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable.

2. For engines with a maximum engine power greater than or equal to 37 kW (50 HP):

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- 2007 model year and later - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable, for all pollutants, for the same model year and maximum engine power.

Compliance with this requirement will be established by purchasing an engine certified to the applicable emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-13: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.4204(b), NSPS Subpart IIII

Item 1-13.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: NENG1

Item 1-13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 through 2010 model year non-emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power greater than 2,237 kW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the following emission standards as per Table 1 to Subpart IIII of Part 60:

1.3 g/kW-hr (1.0 g/HP-hr)	HC (hydrocarbons)
9.2 g/kW-hr (6.9 g/HP-hr)	NOx (oxides of nitrogen)
11.4 g/kW-hr (8.5 g/HP-hr)	CO (carbon monoxide)
0.54 g/kW-hr (0.40 g/HP-hr)	PM (particulate matter)

Compliance with this requirement will be established by purchasing an engine certified to the emission standards listed above and having it installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

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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 1-14: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.4204(b), NSPS Subpart IIII

Item 1-14.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: NENG2

Item 1-14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 through 2010 model year non-emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power greater than 2,237 kW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the following emission standards as per Table 1 to Subpart IIII of Part 60:

1.3 g/kW-hr (1.0 g/HP-hr)	HC (hydrocarbons)
9.2 g/kW-hr (6.9 g/HP-hr)	NOx (oxides of nitrogen)
11.4 g/kW-hr (8.5 g/HP-hr)	CO (carbon monoxide)
0.54 g/kW-hr (0.40 g/HP-hr)	PM (particulate matter)

Compliance with this requirement will be established by purchasing an engine certified to the emission standards listed above and having it installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-15: Compliance Demonstration

Effective between the dates of 10/25/2011 and Permit Expiration Date

New York State Department of Environmental Conservation

Permit ID: 2-6105-00009/02003

Facility DEC ID: 2610500009



Applicable Federal Requirement: 40CFR 60.4204(b), NSPS Subpart IIII

Item 1-15.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBU

Process: EMG

Emission Source: NENG3

Item 1-15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 through 2010 model year non-emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power greater than 2,237 kW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the following emission standards as per Table 1 to Subpart IIII of Part 60:

1.3 g/kW-hr (1.0 g/HP-hr) HC (hydrocarbons)
9.2 g/kW-hr (6.9 g/HP-hr) NO_x (oxides of nitrogen)
11.4 g/kW-hr (8.5 g/HP-hr) CO (carbon monoxide)
0.54 g/kW-hr (0.40 g/HP-hr) PM (particulate matter)

Compliance with this requirement will be established by purchasing an engine certified to the emission standards listed above and having it installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 9: Emissions from Existing Sources

Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.3 (a)

Item 9.1:

This Condition applies to Emission Unit: 2-WWTRE

Item 9.2: No person will cause or allow emissions that violate the requirement specified in Table 2, Table 3, or Table 4 of 6NYCRR Part 212 for the environmental rating issued by the commissioner.

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Condition 10: Compliance Demonstration

Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 10.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 2-WWTRE

Item 10.2:

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: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

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 11: Contaminant List

Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 11.1:

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

CAS No: 0NY100-00-0

Name: HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

Condition 12: Unavoidable noncompliance and violations

Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 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 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

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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 1-16: Unavoidable noncompliance and violations **Effective between the dates of 10/25/2011 and Permit Expiration Date**

Applicable State Requirement: 6 NYCRR 201-1.4

Item 1-16.1:

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 supersede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in

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

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

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

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

Condition 13: Emission Unit Definition

Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 13.1(From Mod 1):

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

Emission Unit: 1-COMBU

Emission Unit Description:

THE PLANT HAS THREE (3) CLEAVER BROOKS CB350HP PACKAGE BOILERS EACH RATED 14.7 MMBTU/HR TO MEET THE WWTP'S MAIN BUILDING SPACE HEATING AND WASTEWATER TREATMENT'S SLUDGE HEATING DEMAND. ONE OF THESE THREE BOILERS IS STANDBY. THE PRIMARY FUEL FOR THESE BOILERS IS THE PLANT'S DIGESTER GAS, WITH #4 DIESEL FUEL OIL AS BACKUP. UNDER THE ONGOING PLANT UPGRADE, THESE BOILERS WILL BE MODIFIED TO BURN #2 DIESEL INSTEAD OF #4 FUEL OIL.

THE PLANT'S SLUDGE DEWATERING BUILDING HAS TWO (2) CLEAVER BROOKS CB200-400 PACKAGE BOILERS EACH RATED 16.7 MMBTU/HR TO MEET THE DEWATERING BUILDING SPACE HEATING DEMAND. ONE OF THESE TWO BOILERS IS STANDBY. THE PRIMARY FUEL FOR THESE TWO BOILERS IS NATURAL GAS, WITH #2 DIESEL FUEL OIL AS BACKUP.



THE PLANT HAS TWO 3500 KW EUROPEAN GAS TURBINE GENERATORS, ONE 350 KW CUMMINS DIESEL GENERATOR, AND ONE 185 HP DETROIT DIESEL BLACKSTART DIESEL ENGINE FOR UTILITY POWER EMERGENCY PURPOSES.

THERE ARE THREE 6" VAREC WASTE GAS BURNERS WHICH FLARE EXCESSIVE SLUDGE DIGESTER GAS. THE PLANT WILL CONDUCT PUMP AROUND OPERATIONS USING <200 HP DIESEL ENGINES, WHICH ARE CONSIDERED EXEMPT SOURCES.

AS PART OF THE ONGOING PLANT UPGRADE, DEP WILL REPLACE THE PLANT'S EXISTING TWO 3500KW EUROPEAN GAS TURBINE GENERATORS, ONE 185 HP DETROIT DIESEL BLACKSTART GENERATOR AND ONE 350KW CUMMINS DIESEL GENERATOR WITH THREE 2500KW MEDIUM SPEED DIESEL GENERATORS AND ONE 600KW BLACKSTART DIESEL GENERATOR. THIS REPLACEMENT WILL INCREASE THE WWTP'S RELIABILITY TO PROVIDE SUFFICIENT CRITICAL EMERGENCY POWER SUPPORT FOR THE FACILITY TO ACHIEVE A MINIMUM OF PRIMARY TREATMENT AND DISINFECTION OF TWO TIMES THE PERMITTED FLOW AS REQUIRED PURSUANT TO THE SPDES PERMIT. THE NEW GENERATORS WILL BE USED DURING EMERGENCY POWER SITUATIONS ONLY.

DURING THE CONSTRUCTION, SIX INTERIM 1000KW RENTRAL GENERATORS WILL BE INSTALLED TO PROVIDE EMERGENCY POWER TO THE PLANT IF THERE IS AN EMERGENCY POWER SITUATION. THESE INTERIM UNITS WILL BE REMOVED FROM THE PLANT AFTER THE NEW PERMANENT GENERATORS ARE AVAILABLE FOR OPERATION.

THE PLANT WILL CONSTRUCT A 1.2 MGD (MILLION GALLON DAY) CENTRATE PROCESSING FACILITY WITH THE 26TH WARD WWTP CAKE STORAGE BUILDING. THE WORK UNDER THIS CONTRACT FOR THE PILOT FACILITY INCLUDES INSTALLATION OF TWO 12 MILLION BTU/HR PROCESS BOILERS (ONE AS STANDBY) FOR A 1.2 MGD AMMONIA RECOVERY PROCESS (ARP) AT THE PLANT.

Building(s): CAKESTORAG
DEWATERING
EMERGENCY
MAIN



OUTDOOR

Item 13.2(From Mod 0):

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

Emission Unit: 2-WWTRE

Emission Unit Description:

Emission unit includes the plant's non-combustion operational processes related to wastewater treatment operation. These processes include the typical wastewater treatment processes of headworks, primary settling tanks, activated sludge aeration tanks, final setting tanks, and chlorination disinfection tanks. Most of these processes are in tanks at plant's outdoor space.

These processes also include the associated processes to handle sludge produced by the wastewater treatment processes, including sludge thickeners, sludge digesters, sludge dewatering, sludge storage and sludge digester gas storage.

Emissions from these wastewater treatment related processes vary based on the plant influent, over which the plant has no control. The emissions are based on current sampling and computer modeling.

The existing four gravity thickeners will be reconstructed during the plant upgrade. The plant may install temporary gravity belt thickeners to handle the sludge flow for any existing units that needed to be taken out of service for construction (with no increase in capacity) in accordance with the provisions of 6NYCRR 201-5.4(b) "Operational Flexibility".

Building(s): CAKESTORAG
DEWATERING
MAIN
OUTDOOR

Condition 14: Compliance Demonstration

Effective between the dates of 06/29/2006 and Permit Expiration Date

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

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:

Operational Flexibility

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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

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 15: Air pollution prohibited
Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 211.2

Item 15.1:

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

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prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 1-17: Visible Emissions Limited
Effective between the dates of 10/25/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 1-17.1:

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

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

Condition 16: Emission Point Definition By Emission Unit
Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 16.1(From Mod 1):

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

Emission Unit: 1-COMBU

Emission Point: DWBLR

Height (ft.): 34

Diameter (in.): 32

NYTMN (km.): 4500.6

NYTME (km.): 594.8

Building:

DEWATERING

Emission Point: MBBLR

Height (ft.): 25

Length (in.): 108

Width (in.): 84

NYTMN (km.): 4500.6

NYTME (km.): 594.8

Building: MAIN

Emission Point: TEMPB

Height (ft.): 14

Diameter (in.): 24

NYTMN (km.): 4500.6

NYTME (km.): 594.8

Building: OUTDOOR

Condition 17: Process Definition By Emission Unit
Effective between the dates of 06/29/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 17.1(From Mod 1):

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

Emission Unit: 1-COMBU

Process: ARP

Source Classification Code: 2-02-004-01

Process Description:

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THE WWTP CURRENTLY HAS A BIOLOGICAL NUTRIENT REMOVAL AND AMMONIA STRIPPING PILOT STUDY IN PROGRESS, FOR RESEARCH AND DEVELOPMENT PURPOSES, WHICH IS CONSIDERED AN EXEMPT SOURCE.

DEP IS PROPOSING TO CONSTRUCT A 1.2 MGD (MILLION GALLON DAY) CENTRATE PROCESSING FACILITY WITHIN 26TH WARD WPCP'S CAKE STORAGE BUILDING. THE WORK UNDER THIS CONTRACT, FOR THE PILOT FACILITY, INCLUDES THE INSTALLATION OF A 1.2 MGD AMMONIA RECOVERY PROCESS (ARP) AT THE 26TH WARD WWTP. IMPLEMENTATION OF THE ARP SYSTEM WILL REQUIRE CONTINUOUS OPERATION OF ONE 12 MILLION BTU/HR PROCESS BOILER WITH A SECOND BOILER MAINTAINED AS A STANDBY.

Emission Source/Control: NBLR1 - Combustion
Design Capacity: 12 million BTUs per hour

Emission Source/Control: NBLR2 - Combustion
Design Capacity: 12 million Btu per hour

Item 17.2(From Mod 1):

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

Emission Unit: 1-COMBU
Process: DBD Source Classification Code: 1-03-005-02
Process Description: Burning #2 diesel oil.

Emission Source/Control: DWBR1 - Combustion
Design Capacity: 16.7 million Btu per hour

Emission Source/Control: DWBR2 - Combustion
Design Capacity: 16.7 million Btu per hour

Item 17.3(From Mod 1):

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

Emission Unit: 1-COMBU
Process: DBG Source Classification Code: 1-03-006-02
Process Description: Burning natural gas.

Emission Source/Control: DWBR1 - Combustion
Design Capacity: 16.7 million Btu per hour

Emission Source/Control: DWBR2 - Combustion
Design Capacity: 16.7 million Btu per hour

Item 17.4(From Mod 1):

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

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Emission Unit: 1-COMBU

Process: EMG

Source Classification Code: 2-04-003-02

Process Description:

THE WWTP CURRENTLY HAS TWO 3500 KW EUROPEAN GAS TURBINE GENERATORS, ONE 350 KW CUMMINS DIESEL GENERATOR, AND ONE 185 HP DETROIT DIESEL BLACKSTART DIESEL ENGINE FOR UTILITY POWER EMERGENCY PURPOSES. THESE EXISTING EMERGENCY GENERATORS WILL BE REPLACED WITH THREE 2500KW MEDIUM SPEED DIESEL GENERATORS (NENG1, NENG2 AND NENG3, EACH EXHAUST THROUGH ITS STACKS NENGA, NENGB, AND NENG3 RESPECTIVELY) AND ONE 600KW BLACKSTART DIESEL GENERATOR (BSTAT EXHAUSTS THROUGH BSTAT). DURING THE CONSTRUCTION, SIX INTERIM 1000KW RENTAL GENERATORS (IENG1, IENG2, IENG3, IENG4, IENG5, AND IENG6 EACH EXHAUSTS THROUGH ITS STACKS IENGA, IENGB, IENG3, IENG4, IENG5, AND IENG6 RESPECTIVELY) WILL BE INSTALLED TO PROVIDE EMERGENCY POWER TO THE WWTP IF THERE IS AN EMERGENCY POWER SITUATION. THESE INTERIM UNITS WILL BE REMOVED AFTER THE NEW PERMANENT GENERATORS ARE AVAILABLE FOR OPERATION.

Emission Source/Control: BSTAT - Combustion

Design Capacity: 600 kilowatts

Emission Source/Control: IENG1 - Combustion

Design Capacity: 1,000 kilowatts

Emission Source/Control: IENG2 - Combustion

Design Capacity: 1,000 kilowatts

Emission Source/Control: IENG3 - Combustion

Design Capacity: 1,000 kilowatts

Emission Source/Control: IENG4 - Combustion

Design Capacity: 1,000 kilowatts

Emission Source/Control: IENG5 - Combustion

Design Capacity: 1,000 kilowatts

Emission Source/Control: IENG6 - Combustion

Design Capacity: 1,000 kilowatts

Emission Source/Control: NENG1 - Combustion

Design Capacity: 2,500 kilowatts

Emission Source/Control: NENG2 - Combustion

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Design Capacity: 2,500 kilowatts

Emission Source/Control: NENG3 - Combustion

Design Capacity: 2,500 kilowatts

Item 17.5(From Mod 1):

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

Emission Unit: 1-COMBU

Process: MBE

Source Classification Code: 1-03-005-02

Process Description:

Burning #2 fuel oil in three (3) main building boilers
and one (1) trailer-mounted 10.5 mmBtu/hr boiler.

Emission Source/Control: MBBR1 - Combustion

Design Capacity: 14.7 million Btu per hour

Emission Source/Control: MBBR2 - Combustion

Design Capacity: 14.7 million Btu per hour

Emission Source/Control: MBBR3 - Combustion

Design Capacity: 14.7 million Btu per hour

Item 17.6(From Mod 1):

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

Emission Unit: 1-COMBU

Process: MBG

Source Classification Code: 1-03-007-01

Process Description: Burning digester gas.

Emission Source/Control: MBBR1 - Combustion

Design Capacity: 14.7 million Btu per hour

Emission Source/Control: MBBR2 - Combustion

Design Capacity: 14.7 million Btu per hour

Emission Source/Control: MBBR3 - Combustion

Design Capacity: 14.7 million Btu per hour

Item 17.7(From Mod 0):

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

Emission Unit: 1-COMBU

Process: FLA

Source Classification Code: 5-01-007-89

Process Description: Excess digester gas flared at waste gas burners.

Emission Source/Control: WGBR1 - Combustion

Design Capacity: 24,000 cubic feet per hour

Emission Source/Control: WGBR2 - Combustion

Design Capacity: 24,000 cubic feet per hour

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Emission Source/Control: WGBR3 - Combustion

Design Capacity: 24,000 cubic feet per hour

Item 17.8(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: ART

Source Classification Code: 5-01-007-31

Process Description:

This process is the plant activated sludge aeration (ART) consisting of two (2) aeration tanks AERTK. In this process, the effluent from the primary settling treatment section is mixed with activated sludge solids and air. These aeration tanks provide the detention time required for the activated sludge to absorb the organic matters in the wastewater. Compressed air is discharged through the tanks to provide mixing and an aerobic environment. After a set mixing period, the mixture flows to the final settling tanks, where the solids are flocculated, settled and collected. Each of these aeration tanks has four "passes".

The total thruput is based on the design average dry weather flow of 85 MGD.

Emission Source/Control: AERTK - Process

Design Capacity: 85,000,000 gallons per day

Item 17.9(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: CCT

Source Classification Code: 5-01-007-60

Process Description:

This process is the plant chlorine contact tanks (CCT) disinfection process consisting of two (2) chlorination tanks CHLTK and required disinfection of the plant effluent. The wastewater from the final settling tanks flows to the chlorine contact tanks where sodium hypochlorite is added into the wastewater to destroy and kill the harmful disease-causing organisms and thereby to protect the receiving water.

The total thruput is based on the design average dry weather flow of 85 MGD.

Emission Source/Control: CHLTK - Process

Design Capacity: 85,000,000 gallons per day

Item 17.10(From Mod 0):

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

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Emission Unit: 2-WWTRE

Process: FST

Source Classification Code: 5-01-007-40

Process Description:

This process is the plant final setting tanks (FST) consisting of seven (7) final setting tanks (FINTK). The purpose of this final settling process is two fold: settle out microorganisms and activated sludge solid waste generated during the aeration process to produce a clarified effluent, and to collect the settled activated sludge for conveyance back to the aeration tanks.

The total thruput is based on the design average dry weather flow of 85 MGD.

Emission Source/Control: FINTK - Process

Design Capacity: 85,000,000 gallons per day

Item 17.11(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: PHW

Source Classification Code: 5-01-007-07

Process Description:

This process is the plant headworks (PHW) including the plant's high and low influent channels (HLINF) and six (6) bar screens (SCREN) in the main building (MAIN). The bar screens consists of upright bars spaced one to three inches apart. The primary purpose of the bar screening is to remove large pieces of trash (rags, sticks, newspapers, cans, etc.) for the protection of the main sewage pumps and other equipment.

The total thruput is based on the design average dry weather flow of 85 MGD.

Emission Source/Control: HLINF - Process

Design Capacity: 85,000,000 gallons per day

Emission Source/Control: SCREN - Process

Design Capacity: 85,000,000 gallons per day

Item 17.12(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: PST

Source Classification Code: 5-01-007-20

Process Description:

This process is the plant primary settling tanks (PST) consisting of four (4) primary settling tanks PRITK. Primary settling is a process in which the solid particles carried in raw sewage are removed by gravity under quiescent conditions in the primary settling tanks. In

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addition, the primary settling tanks are used to separate and remove floating materials and scum. Solid and grit collected in the tanks are removed as a thin sludge by continuous pumping to cyclone digritters. Each primary settling tank is equipped with sludge collectors, dipping weirs, scum removal equipment, inlet sluice gates overflow weirs.

The total thruput is based on the design average dry weather flow of 85 MGD.

Emission Source/Control: PRITK - Process

Design Capacity: 85,000,000 gallons per day

Item 17.13(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SAD

Source Classification Code: 5-01-007-81

Process Description:

This process is the plant's Sludge Anaerobic Digester (SAD) process including four (4) sludge digestion tanks DIGTK. Two primary sludge digestion tanks are 191,500 cubic feet each and two (2) secondary digestion tanks are each 186,000 cubic feet each.

After sludge gravity thickening, for making it safe for the environment, the sludge is placed in oxygen-free tanks called digesters. Digesters are heated to at least 95 degrees of F for between 15-20 days stimulating the growth of anaerobic bacteria which consume organic material in the sludge. In the digesters, sludge is converted into water, carbon dioxide and methane gas. The methane gas is often used as an energy source to operate boilers. The digester sludge is pumped from these digestion tanks to the dewatering building.

The process thruput is an estimate based on the highest historical monthly thickened combined sludge 2000-2003.

Emission Source/Control: DIGTK - Process

Design Capacity: 755,000 cubic feet

Item 17.14(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SCS

Source Classification Code: 5-01-007-99

Process Description:

This process is the plant's Sludge Cake Storage (SCS) process in the sludge cake storage building CAKESTORAG. In case sludge cakes produced by the sludge dewatering

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process can not be transported away immediately, the sludge cakes will be stored in this cake storage building. This sludge cake storage building has eight (8) storage silos SILO1 through SILO8 each has its own ventilation stack. There are activated carbon absorption vessels CSBC1 through CSBC8 installed in the sludge cake storage building for odor control purpose and connected to two (2) common exhaust stacks.

Emission Source/Control: CSBC1 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC2 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC3 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC4 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC5 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC6 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC7 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: CSBC8 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SILO1 - Process

Emission Source/Control: SILO2 - Process

Emission Source/Control: SILO3 - Process

Emission Source/Control: SILO4 - Process

Emission Source/Control: SILO5 - Process

Emission Source/Control: SILO6 - Process

Emission Source/Control: SILO7 - Process

Emission Source/Control: SILO8 - Process

Item 17.15(From Mod 0):

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

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Emission Unit: 2-WWTRE

Process: SDW

Source Classification Code: 5-01-007-92

Process Description:

This process is the plant's Sludge Dewatering (SDW) process for sludge dewatering DEWAT in the DEWATERING Building (DEWATERING). Under this process, sludge will be further concentrated by mechanical means, like centrifuges and presses, to remove water.

Wet scrubbers and activated carbon absorbers are installed for odor control purpose. Four (4) wet scrubber units DWBS1 through DWBS4 connected to stacks are installed for the building ventilation but only two to three of the four units are on-line at a time, one unit is backup. Two (2) double stages systems DWBC1 and DWBC2 comprised with wet scrubbers followed by activated carbon absorbers connected to stacks are installed for ventilation of the centrifuges operation, but only one system is on-line at a time and the other one is backup.

Two (2) methane abatement systems METH1 and METH2 connected to stacks are installed at the Dewatering Building, and one (1) methane abatement system METH3 is installed at the associated Fire and Pump House to limit and control concentration of methane or hydrogen sulfide gas below the slab to 10% of the Lower Explosive Limit (LEL).

Process throughput is based on the maximum quantity of air that the odor control systems can handle.

Emission Source/Control: DWBS1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBS2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBS3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DWBS4 - Control
Control Type: WET SCRUBBER

Emission Source/Control: METH1 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: METH2 - Control
Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: METH3 - Control

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Control Type: VAPOR RECOVERY SYSTEM (VAPOR
ADSORPTION/ABSORPTION UNIT)

Emission Source/Control: DEWAT - Process

Item 17.16(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SGT

Source Classification Code: 5-01-007-71

Process Description:

This process is the plant's Sludge Gravity Thickening (SGT) process including four (4) sludge gravity thickener tanks SGTTK; each are with 70 feet diameter. The primary and final setting tanks sludge (approximately 99% water) is concentrated in these gravity thickening tanks. The water is sent back to the head of the plant or aeration tanks for additional treatment.

The process throughput is an estimate on highest historical monthly thickened combined sludge 2000-2003.

The existing four gravity thickeners will be reconstructed during the plant upgrade. The plant may install temporary gravity belt thickeners to handle the sludge flow for any existing units that needed to be taken out of service for construction (with no increase in capacity) in accordance with the provisions of 6NYCRR 201-5.4(b) "Operational Flexibility".

Emission Source/Control: SGTTK - Process

Item 17.17(From Mod 0):

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

Emission Unit: 2-WWTRE

Process: SST

Source Classification Code: 5-01-007-99

Process Description:

This process is the plant's Sludge Storage Tanks (SST) process including two (2) sludge storage tanks SSTK at 188,000 cubic feet each. Excessive sludge will be stored in these storage tanks.

An activated carbon absorber vessel STK3C with stack SST3C is installed at the sludge storage tank #3 for odor control purpose.

The process throughput is an estimate based on highest historical monthly thickened combined sludge 2000-2003.

Emission Source/Control: SSTK1 - Process

Design Capacity: 376,000 cubic feet



Emission Source/Control: STK3C - Process

