

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 1-4720-00355/00043 Modification Number: 1



01/20/2006

Facility Identification Data

Name: BERGEN POINT STP & BERGEN AVE DOCK
Address: 600 BERGEN AVE
W BABYLON, NY 11704

Owner/Firm

Name: SUFFOLK COUNTY
Address: H LEE DENNISON BLDG
HAUPPAUGE, NY 11788, USA
Owner Classification: Municipal

Permit Contacts

Division of Environmental Permits:
Name: JOHN W PAVACIC
Address: DIVISION OF ENVIRONMENTAL PERMITS
SUNY CAMPUS, LOOP ROAD, BUILDING 40
STONY BROOK, NY 11790-2356

Division of Air Resources:
Name: SYED H RAHMAN
Address: SUNY CAMPUS
LOOP ROAD, BUILDING 40
STONY BROOK, NY 11790-2356
Phone:6314440205

Air Permitting Contact:
Name: SOUTHWEST SEWER DISTRICT #3
Address: SUFFOLK COUNTY DEPT OF PUBLIC WORKS
335 YAPHANK AVE
YAPHANK, NY 11980
Phone:6318524000

Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

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SUFFOLK COUNTY SEWER DISTRICT NO. 3 SOUTHWEST OPERATES A 30.5 MILLION GALLON PER DAY (MGD) WASTEWATER TREATMENT PLANT LOCATED AT BERGEN POINT IN THE TOWN OF BABYLON, ON THE SOUTH SHORE OF LONG ISLAND. THE PLANT WAS CONSTRUCTED IN THE 1970S AND INCLUDES A PUMP AND SCREEN BUILDING, GRIT BUILDING, PRIMARY SETTLING TANKS, AERATION TANKS WITH BLOWER BUILDING, CLARIFIERS WITH PUMP BUILDING, AN EFFLUENT PUMP BUILDING, A SLUDGE PROCESSING BUILDING INCLUDING THICKENERS, BELT FILTER PRESSES AND TWO MULTIPLE HEARTH INCINERATORS. INCLUDED IN THE 30.5 MGD IS A 0.5 MGD SCAVENGER WASTE FACILITY CONSISTING OF A SEPTAGE DUMPING BUILDING, TREATMENT TANKS AND FILTERS. AUXILIARY FACILITIES CONSIST OF AN ADMINISTRATION AND MAINTENANCE BUILDING, TWO EMERGENCY GENERATORS, TWO STEAM GENERATING BOILERS, A FUEL STORAGE FACILITY AND A NUMBER OF ODOR CONTROL SYSTEMS.

Attainment Status

BERGEN POINT STP & BERGEN AVE DOCK is located in the town of BABYLON in the county of SUFFOLK.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

** NOx has a separate ambient air quality standard in addition to being an ozone precursor

Facility Description

Bergen Point Treatment Plant operates a 30.5 million gallon per day (mgd) waste water treatment plant at Bergen Point in the Town of Babylon. The plant was constructed in the 1970's and includes a pump and screen building, grit building, primary settling tanks, aeration tanks with blower building, clarifiers with



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pump building, an effluent pump building, a sludge processing building including thickeners, belt presses and two multiple hearth incinerators. Included in the 30.5 mgd is a 0.5 mgd scavenger waste facility consisting of septage dumping building, treatment tanks and filters. There are two multiple hearth incinerators and they use No. 2 fuel oil to burn the sewage sludge. Each incinerator is exhausted through an afterburner, spray tower, venturi scrubber, impingement scrubber and an I.D fan, prior to exhausting to their respective stacks. Both incinerators were not operating since May 2000 and the facility is planning to resume the incinerator operations by Fall 2001. The facility will notify the Department when they plan to resume the incinerator operation. Performance tests must be performed on both incinerators after they are back on-line. Currently, the facility is in the process of installing Continuous Emission Monitors and Oxygen monitors. There are two small boilers with 40 mmbtu/hr capacity which use No.2 fuel oil as the fuel. In addition, there are 5 packed bed scrubbers using liquid hypochlorite to remove trace organics from sludge conditioning off gas, prior to discharge through 5 stacks. The facility is subject to 6NYCRR Part 225, 227, 40 CFR Part 60 Subpart O and 40 CFR 61 Subpart E.

Permit Structure and Description of Operations

The Title V permit for BERGEN POINT STP & BERGEN AVE DOCK is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device.

[NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

BERGEN POINT STP & BERGEN AVE DOCK is defined by the following emission unit(s):
Emission unit U00001 - TWO ZIMPRO MULTI-HEARTH INCINERATORS WITH THERMAL AFTERBURNERS, SPRAY TOWERS, VENTURI SCRUBBERS, IMPINGEMENT PLATE SCRUBBERS AND I.D. FANS.

Emission unit U00001 is associated with the following emission points (EP):

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INCN1, INCN2

It is further defined by the following process(es):

Process: SSI is located at 2, Building 2 - Municipal sewage sludge burned in two vertical multi-hearth incinerators with no.2 fuel oil. Each incinerators is exhausted through an afterburner, spray tower, venturi scrubber, impingement plate scrubber and I.D fan, prior to exhausting to their respective stacks.

Emission unit U00004 - ASH SILO EXHAUST.

Emission unit U00004 is associated with the following emission points (EP):

OSILO

It is further defined by the following process(es):

Process: P26 is located at Building 2 - Ash from the incineration of sludge is pneumatically conveyed to a silo, where the ash is centrifrically seperated from the air, filtered and washed, before shipped offsite.

Emission unit U00002 - 2 CLEAVER BROOKS BOILERS BURNING UP TO 280 GALLONS PER HOUR OF #2 FUEL OIL OR 392 THERMS PER HOUR OF NATURAL GAS, EACH EXHAUSTING THROUGH A COMMON STACK. ONLY ONE OPERATES AT A TIME.

Emission unit U00002 is associated with the following emission points (EP):

BOILS

It is further defined by the following process(es):

Process: P01Firing natural gas in boilers. The firing rate is up to 392 therms per hour. Only one unit is used at a time to produce 30,000 lb/hr of steam to meet facility heating and cooling requirements.

Process: P02 is located at 2, Building 2 - Firing #2 fuel oil in boilers (in use one at a time). Maximum firing rate is 280 gal/hr. These units produce 30,000 lb/hr of steam to meet facility heating and cooling requirements.

Emission unit U00003 - LIQUID AND SOLID OPEN PROCESSES, PROCESSING UP TO 30.5 MGD OF WASTE WATER, EMITTING VOCS AND HAPS. THERE ARE 5 PACKED BED SCRUBBERS USING HYPOCHLORITE TO REMOVE TRACE ORGANICS FROM SLUDGE CONDITIONING OFF GASES PRIOR TO DISCHARGE.

Emission unit U00003 is associated with the following emission points (EP):

PBST0, PBST1, PBST2, PBST3, PBST4, PBST5, PBST6, PBST7, PBST8, PBST9

It is further defined by the following process(es):

Process: P11Two (2) Scavenger waste holding tanks.

Process: P12Two (2) Scavenger waste chemical tanks

Process: P13Two(2) equalization tanks and pump station for scavenger waste treatment.

Process: P14Three (3) cyclone de-gritters (scavenger waste)

Process: P15One (1) main effluent wet well.

Process: P16Two (2) aerated grit tanks

Process: P17Four (4) primary settling tanks

Process: P18Eight (8) aeration tanks

Process: P19Six (6) clarifiers

Process: P20Two (2) sludge blending tanks

Process: P21Two (2) gravity belt thickeners

Process: P22One (1) scum handling system

Process: P23Two (2) air floatation sludge thickeners

Process: P24Four (4) belt presses

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Process: P25One (1) effluent wet well

Title V/Major Source Status

BERGEN POINT STP & BERGEN AVE DOCK is subject to Title V requirements. This determination is based on the following information:

The facility is a major source for NOx. The potential to emit NOx is between 100 and 250 tons per year. Other contaminants emitted from the facility include Particulates, VOC, CO and Sulfur Dioxide. The emissions of these contaminants are below the major emission thresholds.

Program Applicability

The following chart summarizes the applicability of BERGEN POINT STP & BERGEN AVE DOCK with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	YES
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality

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Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's)

MACT Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

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Facility is in compliance with all requirements

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
4952	SEWERAGE SYSTEMS

SCC Codes

SCC or Source Classification Code is a code developed and used by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
1-02-005-01	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - DISTILLATE OIL Grades 1 and 2 Oil
1-02-006-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
5-02-005-15	SOLID WASTE DISPOSAL - COMMERCIAL/INSTITUTIONAL SOLID WASTE DISPOSAL: COMMERCIAL - INCINERATION: SPECIAL PURPOSE
5-01-820-01	SEWAGE SLUDGE INCINERATOR: MULTIPLE HEARTH SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - WASTEWATER, AGGREGATE WASTEWATER: PROCESS AREA DRAINS

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or

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material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. ONY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
000630-08-0	CARBON MONOXIDE		>= 2.5 tpy but < 10 tpy
ONY100-00-0	HAP		>= 2.5 tpy but < 10 tpy
007439-97-6	MERCURY (HAP)		> 0 but < 10 tpy
ONY210-00-0	OXIDES OF NITROGEN		>= 100 tpy but < 250 tpy
ONY075-00-0	PARTICULATES		>= 25 tpy but < 40 tpy
ONY075-00-5	PM-10		>= 25 tpy but < 40 tpy
007446-09-5	SULFUR DIOXIDE		>= 2.5 tpy but < 10 tpy
ONY998-00-0	VOC		>= 10 tpy but < 25 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Sealing - 6NYCRR Part 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 - 6NYCRR Part 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A,

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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 - 6NYCRR Part 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 - 6NYCRR Part 201-1.2

If an existing emission source was subject to the permitting requirements of 6NYCRR 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 - 6NYCRR Part 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

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

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

Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6NYCRR Part 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.

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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: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 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 K: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)

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

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

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

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

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

Item N: Permit Revocation, Modification, Reopening, Reissuance or

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Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

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

Item O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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

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

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

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

Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records

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must be kept under the conditions of the permit;

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

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

Item U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of

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Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

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

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

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

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

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

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- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

Item Y: Required Emission Tests - 6 NYCRR Part 202-1.1

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

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Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3
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.

Item AA: Open Fires - 6 NYCRR Part 215
No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Item BB: 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 CC: 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.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5
Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all

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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.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	1-20
U-00001	40CFR 60-O	Standards of Performance for Sewage Treatment Plants	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-15, 1-16, 50, 51, 52
FACILITY	40CFR 61-E.50	Standard for Mercury: Mercury Ore Processing, chlorine gas production, and sludge incineration	38, 39
FACILITY	40CFR 61-E.55 (a)	Standard for Mercury: monitoring of emissions and operations	1-5
FACILITY	40CFR 68	Chemical accident prevention provisions	1-6
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	1-21
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	24, 41, 42
FACILITY	6NYCRR 201-6.5 (c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	1-1
FACILITY	6NYCRR 201-6.5 (c) (2)	Permit conditions for Recordkeeping and Reporting of Compliance	1-2



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FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Monitoring Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	1-3
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	1-4
FACILITY	6NYCRR 201-6.5(g)	Permit shield	28
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	30
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	31
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	62
U-00001	6NYCRR 212.11(a)	Sampling and monitoring	1-7
U-00001	6NYCRR 212.11(b)(5)	Sampling and monitoring	44
U-00001	6NYCRR 219-1.2	Summary of applicability.	63
U-00001	6NYCRR 225-1	FUEL COMPOSITION AND USE - SULFUR LIMITATIONS	45
U-00002	6NYCRR 225-1	FUEL COMPOSITION AND USE - SULFUR LIMITATIONS	56
FACILITY	6NYCRR 225-1.8	Reports, sampling and analysis.	36
U-00002	6NYCRR 227.2(b)(1)	Particulate emissions.	1-19
U-00002	6NYCRR 227-1.2(a)	Particulate Emissions from Liquid Fuels.	1-17
U-00001	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	1-8
U-00002	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	1-18
U-00002	6NYCRR 227-2	Reasonably available control technology for NOx	58

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6NYCRR Part 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance,

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monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6NYCRR Part 201-6.5(c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6NYCRR Part 201-6.5(c)(2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6NYCRR Part 201-6.5(c)(3)(ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6NYCRR Part 201-6.5(e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6NYCRR Part 201-6.5(g)

Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the federally enforceable portion of the permit, unless they are specifically addressed by it.

6NYCRR Part 202-2.1

Requires that emission statements shall be submitted on or before April 15th each

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year for emissions of the previous calendar year.

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

40 CFR Part 68.

This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

Facility Specific Requirements

In addition to Title V, BERGEN POINT STP & BERGEN AVE DOCK has been determined to be subject to the following regulations:

40CFR 60-O

Facility is subject to 40 CFR 60-O. Subpart O is applicable to any sewage treatment plant constructed or modified after June 11, 1973. The facility must also incinerate wastes containing more than 10% sewage sludge(dry basis) produced by municipal sewage treatment plant or each incinerator charges more than 1000 Kg (2205 lbs) per day municipal sewage sludge. Hence the facility is subject to 40 CFR Subpart O.

40CFR 61-E.50

40 CFR 61-E.50 is applicable to sewage sludge incinerators for mercury emissions. The mercury emissions from the incinerator must not exceed 3200 grams per 24-hour period. The facility may demonstrate the mercury emissions either using a stack test or by sludge sampling on an approved frequency.

40CFR 61-E.55 (a)

This regulation requires an annual emissions test for mercury if the emissions exceed 1,600 grams per 24 hour period.

6NYCRR 201-6.5 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

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6NYCRR 212 .11 (a)

This regulation requires the facility to demonstrate compliance using stack emission testing using acceptable procedures approved by the Department.

6NYCRR 212 .11 (b) (5)

This section sets the requirements for sampling, monitoring, recordkeeping, and reporting from process sources using continuous monitors.

6NYCRR 219-1.2

As a sewage sludge incinerator, Bergen Point STP may not accept any municipal solid waste for incineration.

6NYCRR 225-1

When the facility uses No. 2 fuel oil for the incinerator and boilers, 6NYCRR Part 225 is applicable to regulate the sulfur concentration in the fuel oil. In Suffolk County, the sulfur content must not exceed 0.37% in the fuel oil used for combustion.

6NYCRR 225-1.8

This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to 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.

6NYCRR 227 .2 (b) (1)

This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. The rule establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for any oil fired stationary combustion installation.

6NYCRR 227-1.2 (a)

This regulation establishes a particulate emission limit in terms of lbs per mmBTU of heat input for stationary combustion units depending on the heat input capacity and fuel used to fire the units.

6NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6NYCRR 227-2

6NYCRR Part 227-2 is used for the small boilers at the facility. the boilers are subject to annual tune up according to this Part of the regulation. the facility has two 40 MMBtu/hr boilers that are subject to this requirement.

Compliance Certification

Summary of monitoring activities at BERGEN POINT STP & BERGEN AVE DOCK:

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Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
U-00001	intermittent emission testing	1-9
U-00001	monitoring of process or control device parameters as surrogate	1-10
U-00001	record keeping/maintenance procedures	1-11
U-00001	record keeping/maintenance procedures	1-12
U-00001	record keeping/maintenance procedures	1-13
U-00001	monitoring of process or control device parameters as surrogate	1-14
U-00001	monitoring of process or control device parameters as surrogate	1-15
U-00001	record keeping/maintenance procedures	1-16
U-00001	record keeping/maintenance procedures	50
U-00001	record keeping/maintenance procedures	51
U-00001	monitoring of process or control device parameters as surrogate	52
FACILITY	record keeping/maintenance procedures	1-5
FACILITY	record keeping/maintenance procedures	1-3
FACILITY	record keeping/maintenance procedures	1-4
FACILITY	record keeping/maintenance procedures	30
U-00001	record keeping/maintenance procedures	1-7
U-00001	record keeping/maintenance procedures	44
U-00001	record keeping/maintenance procedures	63
U-00001	monitoring of process or control device parameters as surrogate	45
U-00002	monitoring of process or control device parameters as surrogate	56
FACILITY	record keeping/maintenance procedures	36
U-00002	intermittent emission testing	1-19
U-00002	monitoring of process or control device parameters as surrogate	1-17
U-00001	monitoring of process or control device parameters as surrogate	1-8
U-00002	monitoring of process or control device parameters as surrogate	1-18
U-00002	record keeping/maintenance procedures	58

Basis for Monitoring

6NYCRR part 225-1 requires the facility to monitor for sulfur in the No. 2 fuel that they use for the incinerator and boilers. The sulfur content must not exceed 0.37% by weight in the fuel oil. This is the maximum concentration of sulfur allowed in the fuel oil for this facility.

40 CFR 60 subpart O:

The maximum wet sludge feed rate in to the incinerator is 4.5 tons/ hour. Bergen Point uses a weigh scale to monitor the sludge feed rate. The belt weigh scale is a Texas Nuclear WSD Mark II model with an operating range of 0-20 tons/hr. The scale will be calibrated semi-annually. The monitoring of sludge feed rate must be included in the semi annual report that the facility submit to the Department.

Temperatures of every hearth in the incinerator must be monitored and averaged over each 1-hour incinerator operating period. Thermo couple is used to measure the temperature and recorded hourly for the monitoring. The minimum temperature should be 100 - 150 degree F higher than the minimum temperature recorded during the performance test. The device is a Fischer & Porter 50ET 3000TC to Current Converter with an operating range of 0-2400 degree F. This will be calibrated semi-annually. The opacity from the incinerator must not exceed 20% in any six consecutive minutes. The Opacity is measured by the Continuous Opacity Monitors. The device is a Fireye System FE-4 with a range of 0-100%. This will be calibrated quarterly.

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The scrubber pressure of the scrubber and oxygen content in the exhaust gas must be monitored continuously. The device is a Cosa Zircomat ZFK Oxygen Analyser with an operating range of 0-25%. This will be calibrated daily when the incinerator is operating.

The fuel flow in to the incinerator must be monitored and averaged over 8-hour incinerator operating period. The device is a Total Control Systems 682-15-L Piston Meter with an operating range of 0.2-40 gpm. This instrument will be calibrated bi-annually.

6NYCRR Part 225-1 requires the sulfur content in the fuel oil that will be used for boilers must be less than 0.37% by weight.

6NYCRR Part 227-2 requires the small boilers at Bergen Point must be tuned-up annually.

The Original TV permit had two different particulate standards stipulated under 6NYCRR Part 227-1.

One is limiting the particulate matter emission to 1.3 lb/ton of dry sludge input. The second limit is limiting the particulate emission to 0.56 pounds per hour. However, review of 6NYCRR 227-1 suggests that the limit of 0.56 pounds per hour of particulate matter is established for stationary combustion sources burning coal, oil or any other liquid fuel derived from coal. Therefore, the limit of 0.56 lb/hr of particulate matter is not applicable to the sludge incinerators. The particulate emission limit of 1.3 lb/ton of dry sludge input for the incinerators is addressed under 40CFR Part 60-O.

6NYCRR 227-2 (effective August 12, 1972) requires boilers burning fuel oil is restricted to emit 0.1 pound per mmbtu heat input of particulates. Therefore, Bergen Point is subject to this limit and has to demonstrate using a stack test.