New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 1-4728-00141/00014
Renewal Number: 1
06/27/2013

Facility Identification Data
Name: PE - BAYSHORE LLC
Address: 55 PARADISE LN
BAY SHORE, NY 11706

Owner/Firm
Name: PE - BAYSHORE LLC
Address: 1732 WEST GENESEE ST
SYRACUSE, NY 13204, USA
Owner Classification: Corporation/Partnership

Permit Contacts
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SYRACUSE, NY 13204

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
This project is the renewal of the Title V permit for the PE Bay Shore cogeneration facility. PE Bay Shore provides electricity, hot process water, and steam to the nearby Entenmann's Bakery.

The facility consists of three 1,370 kilowatt (kW) internal combustion engines (ICEs) capable of firing diesel fuel or a combination of diesel fuel and natural gas. The facility also contains one 1,375 kW standby ICE firing only diesel fuel. Heat from the three main engines is recovered as hot water by the engine cooling systems and as steam by the heat recovery steam generator (HRSG) associated with each engine. Heat generated by the standby engine is recovered only by the engine cooling system. There is not a HRSG associated with the standby engine.

All four engines were installed prior to the applicability date of the New Source Performance Standards (NSPS) for compression ignition engines, and therefore the facility is not subject to them.

All four engines are required to meet the NOx RACT standard for lean burn compression ignition ICEs found in 6 NYCRR Part 227-2. In order to comply with this standard, the facility has installed a selective catalytic reduction (SCR) system and an oxidation catalyst for each engine to minimize NOx and CO emissions, respectively. As a result, the facility's potential to emit for both contaminants will fall significantly below the PSD applicability threshold of 250 tpy, eliminating the need for a PSD cap. For this reason, the previous PSD cap is no longer necessary and has been removed.

Several additional changes have also been made with this renewal. The designations of the existing emission sources and processes have changed to reflect the addition of new processes. The three main engines in emission unit U-ENG13, previously designated as MAIN2, MAIN3 and MAIN4, are now designated as U-ENG01, U-ENG02, and U-ENG03. The standby engine in emission unit U-ENG04, currently designated as MAIN5, is now designated as U-ENG04. In order to clarify that the engines are not required to operate simultaneously, processes 010 (fuel oil combustion) and 011 (dual fuel combustion) in emission unit U-ENG13 have been ended and replaced with six new processes describing each individual engine firing either #2 fuel oil or a fuel oil/natural gas mixture.

Each new process has also been associated with a SCR system and catalytic oxidation unit. The SCR systems were not previously identified in the initial Title V permit. Since all the SCRs and catalytic oxidizers are identical, the control IDs were chosen to match the engine IDs. All emission source IDs ending in 5 (i.e. SCR05 and CAT05) have been ended. The remaining emission source/control identifiers were retained with the exception of CAT04. This was ended and replaced by CATX4. The reason for the change was that CAT04 was included in U-ENG13 in the initial Title V permit and could not be moved to emission unit U-ENG04 as desired.

The emission point identifiers were also changed. Emission point 00001 was associated with a now discontinued incinerator in an older permit; it could not be used without affecting the integrity of historical data. Since emission point 00005 was used but not associated with any process in the initial Title V permit, it was associated with ENG01, SCR01 and CAT01 in emission units U-ENG01, U-ENG02, and U-ENG03. All other emission points have also been associated with a process.

Finally, stack testing and recordkeeping conditions have been added to monitor the performance of the SCR systems and compliance with NOx RACT regulatory requirements.

Attainment Status

PE - BAYSHORE LLC is located in the town of ISLIP 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:
PE Bay Shore is a cogeneration facility providing electricity, hot process water, and steam to the nearby Entenmann's Bakery. The facility also provides a small amount electrical capacity to the local power grid. The facility is comprised of three 18v 20/27 DG internal combustion engines (ICEs) and associated heat recovery steam generators (HRSGs). One 16v 20/27 DG standby ICE is also located at the facility. This standby ICE is operated when one or more of the other ICEs are offline. All four of the ICEs are equipped with an oxidation catalyst for reduction of carbon monoxide (CO) and volatile organic compounds (VOC). Each engine is also equipped with a selective catalytic reduction (SCR) system to minimize NOx emissions. Each ICE exhausts through a separate stack on the roof of the building. The three main engines fire either diesel fuel or a combination of diesel fuel and natural gas (dual fuel). The standby engine fires diesel fuel only. Three permit exempt sources are also located at the facility. These exempt sources are two 20,000 gallon no. 2 fuel oil storage tanks and one 1,000 gallon lube oil storage tank.

Permit Structure and Description of Operations
The Title V permit for PE - BAYSHORE LLC
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.

PE - BAYSHORE LLC is defined by the following emission unit(s):

Emission unit UENG04 - This emission unit consists of one MAN B&W 16v 20/27 internal combustion engine (ICE) rated at 1375 kW. The engine fires no. 2 fuel oil exclusively. Two 20,000 gallon no. 2 fuel oil storage tanks provide fuel for the standby engine. This engine is primarily utilized as a standby engine for the engines in the emission unit designated UENG13. Thie engine does not have an associated heat recovery steam generator. Heat is recovered using only the engine cooling system and is provided to Entenmann's Bakery as hot water. The engine exhausts through an oxidation catalyst for reducing emissions of Carbon Monoxide (CO) and Volatile Organic Compounds (VOC) and a selective catalytic reduction system to control nitrogen oxide (NOX) emissions. The standby engine is located in the main generation building and exhausts via a stack on top of that building. This engine is coupled to a generator for producing electricity for Entenmanns's Bakery, the facility (in house), and the local electric utility. In addition, this engine can operate simultaneously with unit UENG13 to provide additional power when necessary.

Emission unit UENG04 is associated with the following emission points (EP):
00005
Process: 012 is located at MAIN, Building GENBLDG - Process consists of diesel fuel oil combustion in the standby internal combustion engine rated at 1375 kW. The sulfur content in the fuel does not exceed 1.0% by weight.

Emission unit UENG01 - This emission unit consists of one MAN B&W 18v 20/27 internal combustion engine (ICE) rated at 1370 kW and its associated heat recovery steam generator (HRSG). This engine fires either diesel fuel or a dual fuel mixture comprised of natural gas and diesel. No duct firing of the HRSG is performed. The engine exhausts through an oxidation catalyst which reduces emissions of carbon monoxide (CO) and volatile organic compounds (VOC) and a selective catalytic reduction system to control emissions of nitrogen oxides (NOX). The engine is located in the main generation building and exhausts via a stack on top of that building. Two 20,000 gallon no. 2 fuel oil tanks and a natural gas pipeline provide fuel for the engine. The engine and associated HRSG produces hot water and steam by indirectly contacting process water. In addition, the engine is coupled to a generator for producing electricity for Entenmann's Bakery, the facility (in-house), and for providing additional generating capacity for the local utility.

Emission unit UENG01 is associated with the following emission points (EP):
00002
Process: 1DF is located at MAIN - Internal combustion engine rated at 1370 kW fires a dual fuel mixture consisting of approximately 90% natural gas and 10% diesel fuel as part of a cogeneration plant.

Process: 1FO is located at MAIN - Internal combustion engine, rated at 1370 kW, fires diesel fuel, exclusively, as part of a cogeneration plant.

Emission unit UENG02 - This emission unit consists of one MAN B&W 18v 20/27 internal combustion engine (ICE) rated at 1370 kW and its associated heat recovery steam generator (HRSG). This engine fires either diesel fuel or a dual fuel mixture comprised of natural gas and diesel. No duct firing of the HRSG is performed. The engine exhausts through an oxidation catalyst which reduces emissions of carbon monoxide (CO) and volatile organic compounds (VOC) and a selective catalytic reduction system to control emissions of nitrogen oxides (NOX). The engine is located in the main generation building and exhausts via a stack on top of that building. Two 20,000 gallon no. 2 fuel oil tanks and a natural gas pipeline provide fuel for the engine. The engine and associated HRSG produces hot water and steam by indirectly contacting process water. In addition, the engine is coupled to a generator for producing electricity for Entenmann's Bakery, the facility (in-house), and for providing additional generating capacity for the local utility.

Emission unit UENG02 is associated with the following emission points (EP):
00003
Process: 2DF is located at MAIN, Building GENBLDG - Internal combustion engine rated at 1370 kW fires a dual fuel mixture consisting of approximately 90% natural gas and 10% diesel fuel as part of a cogeneration plant.

Process: 2FO is located at MAIN, Building GENBLDG - Internal combustion engine, rated at 1370 kW fires diesel fuel, exclusively, as part of a cogeneration plant.

Emission unit UENG03 - This emission unit consists of one MAN B&W 18v 20/27 internal combustion engine (ICE) rated at 1370 kW and its associated heat recovery steam generator (HRSG). This engine fires either diesel fuel or a dual fuel mixture comprised of natural gas and diesel. No duct firing of the HRSG is performed. The engine exhausts through an oxidation catalyst which reduces emissions of carbon monoxide (CO) and volatile organic compounds (VOC) and a selective catalytic reduction system to control emissions of nitrogen oxides (NOX). The engine is located in the main generation building and exhausts via a stack on top of that building. Two 20,000 gallon no. 2 fuel oil tanks and a natural gas pipeline provide fuel for the engine. The engine and associated HRSG produces hot water and steam by indirectly contacting process water. In addition, the engine is coupled to a generator for producing electricity for Entenmann's Bakery, the facility (in-house), and for providing additional generating capacity for the local utility.

Emission unit UENG03 is associated with the following emission points (EP):
00004
Process: 3DF is located at MAIN, Building GENBLDG - Internal combustion engine rated at 1370 kW fires a dual fuel mixture consisting of approximately 90% natural gas and 10% diesel fuel as part of a cogeneration plant.

Process: 3FO is located at MAIN, Building GENBLDG - Internal combustion engine, rated at 1370 kW fires diesel fuel, exclusively, as part of a cogeneration plant.

Title V/Major Source Status
PE - BAYSHORE LLC is subject to Title V requirements. This determination is based on the following information:
Potential emissions of NOx are projected to be greater than 100tpy. As a result, this facility is a major source of NOx emissions and is subject to Title V permitting requirements.

Program Applicability
The following chart summarizes the applicability of PE - BAYSHORE LLC with regards to the principal air pollution
regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	YES
NSPS	NO
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 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
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
4939	COMBINATION UTILITY SERVICES

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
2-02-001-04	INTERNAL COMBUSTION ENGINES - INDUSTRIAL

	INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL(DIESEL) Reciprocating: Cogeneration
2-02-004-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Diesel
2-02-004-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Cogeneration: Dual Fuel

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service 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 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. 0NY100-00-0. 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	PTE Range
000630-08-0	CARBON MONOXIDE		>= 50 tpy but < 100 tpy
0NY100-00-0	HAP		> 0 but < 2.5 tpy
007439-92-1	LEAD		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN		>= 100 tpy but < 250 tpy
0NY075-00-0	PARTICULATES		>= 10 tpy but < 25 tpy
0NY075-00-5	PM-10		>= 10 tpy but < 25 tpy
007446-09-5	SULFUR DIOXIDE		>= 100 tpy but < 250 tpy
0NY998-00-0	VOC		>= 40 tpy but < 50 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative

defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

Item B: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)

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

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official.This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)
The permittee must comply with all conditions of the Title V facility permit. Any permit

non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)
It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item H: Property Rights - 6 NYCRR 201-6.4(a)(6)
This permit does not convey any property rights of any sort or any exclusive privilege.

Item I: Severability - 6 NYCRR Part 201-6.4(a)(9)
If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item J: Permit Shield - 6 NYCRR Part 201-6.4(g)
All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;

ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR Part 201-6.4(i)

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

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 2 01-6.7 and Part 621.

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

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

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

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

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

Item L: Permit Exclusion - ECL 19-0305

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

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

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically

designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

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 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	Condition	Short Description
FACILITY	ECL 19-0301	35	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 63-ZZZZ	31	Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	11	Chemical accident prevention provisions
FACILITY	40CFR 82-F	12	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	5	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	36	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	6	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	7	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	8	Exempt Activities - Proof of eligibility

FACILITY	6NYCRR 201-3.3(a)	9	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	13, 32, 33	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(4)	14	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(7)	15	General Conditions - Fees
FACILITY	6NYCRR 201-6.4(a)(8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)	17	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4(c)(2)	18	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4(c)(3)(ii	19	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(d)(4)	20	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(e)	21	Compliance Certification
FACILITY	6NYCRR 201-6.4(f)(6)	22	Off Permit Changes
FACILITY	6NYCRR 201-6.4(g)	23	Permit Shield
FACILITY	6NYCRR 202-1.1	10	Required emissions tests.
FACILITY	6NYCRR 202-2.1	2	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	3	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	24	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	37	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	4	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2(d)	25	Sulfur-in-fuel limitations - Table 2
FACILITY	6NYCRR 227.2(b)(1)	30	Particulate emissions.
U-ENG01	6NYCRR 227-1.3	34	Smoke Emission Limitations.
FACILITY	6NYCRR 227-2.4(f)(3)	38, 39	Emission limit for distillate oil fired engines.
FACILITY	6NYCRR 227-2.6(c)	26, 27, 28, 29	Stack Test Requirements.

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

ECL 19-0301
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.

6 NYCRR 200.6
Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7
Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 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.

6 NYCRR 201-1.7
Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8
Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)
An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6 NYCRR 201-3.3 (a)
The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 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, 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.

6 NYCRR 201-6.4 (a) (4)
This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine

whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)
This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)
This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (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.

6 NYCRR 201-6.4 (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.

6 NYCRR 201-6.4 (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.

6 NYCRR 201-6.4 (d) (5)
This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (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.

6 NYCRR 201-6.4 (f) (6)
This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 201-6.4 (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.

6 NYCRR 202-1.1
This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1
Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calENDar year.

6 NYCRR 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.

6 NYCRR 211.2
This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

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.

40 CFR Part 68
This Part lists the regulated substances and there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F
Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act AmENDments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements
In addition to Title V, PE - BAYSHORE LLC has been determined to be subject to the following regulations:
40 CFR Part 63, Subpart ZZZZ
This regulation provides emission standards and operating practices for stationary internal combustion engines that may emit hazardous air pollutants.

6 NYCRR 201-6.4 (a) (4)
This mandatory requirement applies to all Title V facilities. It requires the permittee to provide any information that the Department may request in writing, within a reasonable time, in order to determine

whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)
This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)
This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (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.

6 NYCRR 201-6.4 (c) (2)
This requirement applies to all facilities subject to Title V requirements and 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.

6 NYCRR 201-6.4 (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.

6 NYCRR 201-6.4 (d) (4)
This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted

semiannually.

6 NYCRR 201-6.4 (f) (6)
This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 211.1
This regulation states that 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.

6 NYCRR 225-1.2 (d)
This section sets the limit for the maximum sulfur content for distillate oil combusted in sources operating in Suffolk County. PE Bay Shore LLC is located in Suffolk County, and is therefore subject to this requirement.

6 NYCRR 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.

6 NYCRR 227-1.3
This regulation requires a limitation on, and compliance monitoring for, the opacity of emissions from a stationary combustion installation. PE Bay Shore LLC operates several stationary combustion installations, and is therefore subject to this requirement.

6 NYCRR 227-2.4 (f) (3)
This section sets the presumptive NOx RACT emission limit for stationary internal combustion engines with a maximum mechanical horsepower rating greater than 200 brake horsepower operating in a severe ozone nonattainment area. PE Bay Shore LLC operates four stationary internal combustion engines with mechanical horsepower ratings greater than 200 brake horsepower, and is therefore subject to this requirement.

6 NYCRR 227-2.6 (c)
This section outlines the stack testing requirements for emission sources subject to Part 227-2. Since PE Bay Shore LLC is subject to regulation under Part 227-2, the facility is required to comply with this section.

Non Applicability Analysis
List of non-applicable rules and regulations:

Location Facility/EU/EP/Process/ES	Regulation	Short Description
FACILITY	40 CFR 52.21	Prevention of Significant Deterioration

Reason: This facility is required to meet the NOx RACT limit specified for compression ignition stationary internal combustion engines (ICEs) under 6 NYCRR Part 227-2.4(f)(2)(ii)(b). As a result, the total facility NOx potential to emit assuming continuous operation will be about 163 tpy which is significantly less than the PSD threshold of 250 tpy. Compliance with this requirement alone will preclude PSD applicability and a voluntary cap will be unnecessary. Evaluation of potential emissions of carbon monoxide (CO) indicate emissions are about 80 tpy, which again is significantly less than the 250 tpy PSD threshold. With the addition of an oxidation catalyst, emissions of CO will be reduced even further, obviating any PSD applicability for this contaminant as well.

FACILITY	6 NYCRR Subpart 231-1	Requirements for emission sources subject to the regulations prior to 11/15/92

Reason: Permits to construct were issued on 12/14/90 for 4 internal combustion engines (ICEs) initially identified as IDs 00001, 00002, 00003, and 00004. The IDs for these 4 engines were subsequently changed to 00010, 00011, 00012, and 00013 on 4/11/95 when the certificates to operate were issued. The IDs were changed again MAIN2, MAIN3, MAIN4 and MAIN5 when the initial Title V permit was issued. With this permit renewal, the ID numbers will be changed once again to align processes and emission sources. The engines will now be changed to the current designated ID numbers ENG01, ENG02, ENG03 and ENG04. Although the ID numbers were altered over the years, the engines for which the original permits to construct were issued back in 1990 have remained the same. Because construction of these emission sources began prior to 11/15/1992, specific applicability to 6 NYCRR Part 231-1 only was evaluated. Although this facility is a major source of NOx, the contaminant was not considered as a precursor to ozone under this rule (this wasn't established until the Clean Air Act Amendments of 1990 became law and the redesignation of NOx as a nonattainment contaminant was subsequently incorporated into 6 NYCRR Part 231-2 which became effective 11/15/1992). Consequently, only compliance with the NOx ambient air quality standard is required and not ozone. Since the New York Metropolitan Area (NYMA) is in attainment with the NOx ambient air

quality standard, and the facility is not a major source of VOC (the other precursor to ozone), Part 231-1 is not considered applicable to this facility.

NOTE: Non-applicability determinations are cited as a permit condition under 6 NYCRR Part 201-6.4(g). This information is optional and provided only if the applicant is seeking to obtain formal confirmation, within an issued Title V permit, that specified activities are not subject to the listed federal applicable or state only requirement. The applicant is seeking to obtain verification that a requirement does not apply for the stated reason(s) and the Department has agreed to include the non-applicability determination in the issued Title V permit which in turn provides a shield against any potential enforcement action.

Compliance Certification
Summary of monitoring activities at PE - BAYSHORE LLC:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
FACILITY	19	record keeping/maintenance procedures
FACILITY	21	record keeping/maintenance procedures
FACILITY	2	record keeping/maintenance procedures
FACILITY	25	work practice involving specific operations
FACILITY	30	intermittent emission testing
U-ENG01	34	record keeping/maintenance procedures
FACILITY	38	monitoring of process or control device parameters as surrogate
FACILITY	39	record keeping/maintenance procedures
FACILITY	26	intermittent emission testing
FACILITY	27	intermittent emission testing
FACILITY	28	intermittent emission testing
FACILITY	29	intermittent emission testing

Basis for Monitoring
Part 225-1.2(d) – Compliance is demonstrated with the fuel-in-sulfur limit in this regulation by either direct sampling of the fuel sulfur content or by documentation provided by the fuel supplier for each load of fuel. Third party certification by suppliers have proven to be effective and reliable.

Part 227-1.3(a) – Compliance with the opacity standard will be demonstrated by recording direct observations of visible emissions on a daily basis. A full Method 9 evaluation is required if visible emissions are determined to be significant.

Part 227-2.4(f)(3) – Compliance with this emission standard for NOx will be determined on multiple levels. First, the facility is required to operate a Selective Catalytic Reduction (SCR) system consistent with the procedures and interlocks provided by the manufacturer of that system. The facility is also required to continuously monitor the mass flow rate of ammonia being supplied to each engine in order to ensure that it does not exceed the maximum design value. By doing so, the facility operator will demonstrate that the SCR system is operating as designed and controlling NOx emissions to the

appropriate level.

Part 227-2.6(c) - Compliance with the emission standard for NOx will also be demonstrated via stack testing. The facility is required to conduct an initial stack test on one of the engines in emission units U-ENG01, U-ENG02, U-ENG03 and on the standby engine in U-ENG04. These tests will demonstrate initial compliance with the NOx emission standard. The facility is also required to conduct a stack test on one of the engines in emission unit U-ENG01, U-ENG02, U-ENG03 and on the standby engine in U-ENG04 once during the term of the permit. These tests will demonstrate continuous compliance with the NOx emission standard.

Part 227.2(b)(1) - Compliance with the particulate matter emission limit for stationary combustion installations firing oil is determined via stack testing once per permit term. Accordingly, the facility owner or operator must test at least one engine in emission unit U-ENG01, U-ENG02, U-ENG03 and the standby engine in emission unit U-ENG04 for particulate emissions at least once during the term of this permit.