



**New York State Department of Environmental Conservation
Permit Review Report**

**Permit ID: 4-0122-00044/00014
05/01/2013**

Facility Identification Data

Name: BETHLEHEM ENERGY CENTER
Address: 380 RIVER RD
GLENMONT, NY 12077

Owner/Firm

Name: PSEG POWER NEW YORK LLC
Address: RTE 144
GLENMONT, NY 12077, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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**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 IS THE INITIAL TITLE V APPLICATION FOR AN EXISTING UTILITY POWER PLANT CONSISTING OF FOUR 100 MW OIL/GAS FIRED BOILERS. UNDER CURRENT PERMIT CONDITIONS, PSEG IS ALLOWED TO COMBUST 20,000 GALLONS OF WASTE FUEL A (WASTE FUEL) PER YEAR.

Attainment Status

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BETHLEHEM ENERGY CENTER is located in the town of BETHLEHEM in the county of ALBANY. 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*	MARGINAL 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:

ALBANY STEAM STATION IS A FOSSIL FUEL-FIRED STEAM GENERATING STATION CONSISTING OF FOUR OIL/GAS STEAM GENERATORS AND FOUR STEAM TURBINES. PSEG ALSO USES THREE 9,396,000 GALLON RESIDUAL OIL STORAGE TANKS AT ITS ALBANY FACILITY WHICH ARE EXEMPT SOURCES ACCORDING TO 6 NYCRR 201-3.2(C)(21). THESE ARE NOT INCLUDED IN THE PERMIT APPLICATION AS PERMITTED SOURCES. NO APPLICABLE REQUIREMENTS ARE ASSIGNED TO THESE TANKS DUE TO THE NATURE OF THE MATERIAL BEING STORED IN THEM (I.E., TANKS CONTAINING RESIDUAL OIL ARE NOT INCLUDED IN 6 NYCRR 229).

Permit Structure and Description of Operations

The Title V permit for BETHLEHEM ENERGY CENTER 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.

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BETHLEHEM ENERGY CENTER is defined by the following emission unit(s):

Emission unit U00002 - EMISSION UNIT U00002 IS A 100 MW STEAM GENERATOR CAPABLE OF FIRING OIL OR GAS. EMISSION UNIT 2 CONSISTS OF EMISSION POINT 00002 (THE STACK), EMISSION SOURCE S0002 (THE BOILER), AND EMISSION SOURCE S002C (THE MULTIPLE CYCLONE DEVICE).

Emission unit U00002 is associated with the following emission points (EP):
00002

Process: P21 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P21 DESIGNATES RESIDUAL OIL FIRING IN BOILER 2. DEC REGULATIONS LIMIT THE SULFUR CONTENT OF THE FUEL TO 1.5% BY WEIGHT. THIS PROCESS ALLOWS CO-FIRING NATURAL GAS. PSEG IS ALSO CURRENTLY ALLOWED TO EVAPORATE SPENT BOILER CLEANING SOLUTION IN THIS BOILER. BOILER 2 MAY BURN OTHER TYPES OF FUEL IF THE FUELS DO NOT CHANGE OR VIOLATE APPLICABLE REQUIREMENTS OF THIS PROCESS. THE FUELS MUST ALSO NOT IMPOSE NEW REQUIREMENTS TO THIS PROCESS. FUEL CONSUMPTION ESTIMATES ARE PROVIDED, AS NEEDED, IN THE CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P22 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P22 DESIGNATES NATURAL GAS FIRING IN BOILER 2. HOURLY AND ANNUAL FUEL CONSUMPTION DATA ARE PROVIDED, AS NEEDED, IN THE EMISSION CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P23 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P23 DESIGNATES THE CO-FIRING OF WASTE FUEL A WITH RESIDUAL OIL, NATURAL GAS AND OTHER FUELS IN BOILER 2. THE RESIDUAL OIL MUST MEET THE REQUIREMENTS DEFINED IN P21.

Emission unit U00003 - EMISSION UNIT U00003 IS A 100 MW STEAM GENERATOR CAPABLE OF FIRING OIL OR GAS. EMISSION UNIT 3 CONSISTS OF EMISSION POINT 00003 (THE STACK), EMISSION SOURCE S0003 (THE BOILER), AND EMISSION SOURCE S003C (THE MULTIPLE CYCLONE DEVICE).

Emission unit U00003 is associated with the following emission points (EP):
00003

Process: P31 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P31 DESIGNATES RESIDUAL OIL FIRING IN BOILER 3. DEC REGULATIONS LIMIT THE SULFUR CONTENT OF THE FUEL TO 1.5% BY WEIGHT. THIS PROCESS ALLOWS CO-FIRING NATURAL GAS. PSEG IS ALSO CURRENTLY ALLOWED TO EVAPORATE SPENT BOILER CLEANING SOLUTION IN THIS BOILER. BOILER 3 MAY BURN OTHER TYPES OF FUEL IF THE FUELS DO NOT CHANGE OR VIOLATE APPLICABLE REQUIREMENTS OF THIS PROCESS. THE FUELS MUST ALSO NOT IMPOSE NEW REQUIREMENTS TO THIS PROCESS. FUEL CONSUMPTION ESTIMATES ARE PROVIDED, AS NEEDED, IN THE CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P32 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P32 DESIGNATES NATURAL GAS FIRING IN BOILER 3. HOURLY AND ANNUAL FUEL CONSUMPTION DATA ARE PROVIDED, AS NEEDED, IN THE EMISSION CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P33 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P33 DESIGNATES THE CO-FIRING OF WASTE FUEL A WITH RESIDUAL OIL, NATURAL GAS, AND OTHER FUELS IN BOILER 3. THE RESIDUAL OIL MUST MEET THE REQUIREMENTS DEFINED IN P31.

Emission unit U00004 - EMISSION UNIT U00004 IS A 100 MW STEAM GENERATOR CAPABLE



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OF FIRING OIL OR GAS. EMISSION UNIT 4 CONSISTS OF EMISSION POINT 00004 (THE STACK), EMISSION SOURCE S0004 (THE BOILER), AND EMISSION SOURCE S004C (THE MULTIPLE CYCLONE DEVICE).

Emission unit U00004 is associated with the following emission points (EP):
00004

Process: P41 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P41 DESIGNATES RESIDUAL OIL FIRING IN BOILER 4. DEC REGULATIONS LIMIT THE SULFUR CONTENT OF THE FUEL TO 1.5% BY WEIGHT. THIS PROCESS ALLOWS CO-FIRING NATURAL GAS. PSEG IS ALSO CURRENTLY ALLOWED TO EVAPORATE SPENT BOILER CLEANING SOLUTION IN THIS BOILER. BOILER 4 MAY BURN OTHER TYPES OF FUEL IF THE FUELS DO NOT CHANGE OR VIOLATE APPLICABLE REQUIREMENTS OF THIS PROCESS. THE FUELS MUST ALSO NOT IMPOSE NEW REQUIREMENTS TO THIS PROCESS. FUEL CONSUMPTION ESTIMATES ARE PROVIDED, AS NEEDED, IN THE CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P42 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P42 DESIGNATES NATURAL GAS FIRING IN BOILER 4. HOURLY AND ANNUAL FUEL CONSUMPTION DATA ARE PROVIDED, AS NEEDED, IN THE EMISSION CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P43 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P43 DESIGNATES THE CO-FIRING OF WASTE FUEL A WITH RESIDUAL OIL, NATURAL GAS AND OTHER FUELS IN BOILER 4. THE RESIDUAL OIL MUST MEET THE REQUIREMENTS DEFINED IN P41.

Emission unit U00005 - Unit 00005 is a package boiler with a maximum natural gas fuel flow of 63,000 SCFM and a maximum heat input of 64,888 MMBTU/hr.

Emission unit U00005 is associated with the following emission points (EP):
00005

Process: P51 is located at Building 1 - P51 DESIGNATES BURNING NATURAL GAS IN THE PACKAGE BOILER. THE MAXIMUM FUEL FLOW RATE INTO THE BOILER WILL BE 32,353 STANDARD CUBIC FEET PER HOUR. THERE WILL BE ONE BURNER IN THE BOILER.

Emission unit U00001 - EMISSION UNIT U00001 IS A 100 MW STEAM GENERATOR CAPABLE OF FIRING OIL OR GAS. EMISSION UNIT 1 CONSISTS OF EMISSION POINT 00001 (THE STACK), EMISSION SOURCE S0001 (THE BOILER), AND EMISSION SOURCE S001C (THE MULTIPLE CYCLONE DEVICE).

Emission unit U00001 is associated with the following emission points (EP):
00001

Process: P11 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P11 DESIGNATES RESIDUAL OIL FIRING IN BOILER 1. DEC REGULATIONS LIMIT THE SULFUR CONTENT OF THE FUEL TO 1.5% BY WEIGHT. THIS PROCESS ALLOWS CO-FIRING NATURAL GAS. PSEG IS ALSO CURRENTLY ALLOWED TO EVAPORATE SPENT BOILER CLEANING SOLUTION IN THIS BOILER. BOILER 1 MAY BURN OTHER TYPES OF FUEL IF THE FUELS DO NOT CHANGE OR VIOLATE APPLICABLE REQUIREMENTS OF THIS PROCESS. THE FUELS MUST ALSO NOT IMPOSE NEW REQUIREMENTS TO THIS PROCESS. FUEL CONSUMPTION ESTIMATES ARE PROVIDED, AS NEEDED, IN THE CALCULATION SECTION OF SUPPORTING DOCUMENTATION.

Process: P12 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P12 DESIGNATES NATURAL GAS FIRING IN BOILER 1. HOURLY AND ANNUAL FUEL CONSUMPTION DATA ARE PROVIDED, AS NEEDED, IN THE EMISSION CALCULATION SECTION OF SUPPORTING DOCUMENTATION.



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Process: P13 is located at 1, Building 1 - PROCESS IDENTIFICATION NUMBER P13 DESIGNATES THE CO-FIRING OF WASTE FUEL A WITH RESIDUAL OIL, NATURAL GAS AND OTHER FUELS IN BOILER 1. THE RESIDUAL OIL MUST MEET THE REQUIREMENTS DEFINED IN

Title V/Major Source Status

BETHLEHEM ENERGY CENTER is subject to Title V requirements. This determination is based on the following information:

Major Stationary Sources are defined as any group of stationary sources that are located on one or more contiguous or adjacent properties and are under common control, belonging to a single major industrial source. Also, a stationary sources in non-attainment areas and in the ozone transport region shall be "major" if it emits or has the potential to emit 100 tons per year of Nox. Albany Steam Station shall be considered a major stationary source; the facility meets or exceeds each of the aforementioned major source criteria.

Program Applicability

The following chart summarizes the applicability of BETHLEHEM ENERGY CENTER 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)	NO
NSPS	YES
TITLE IV	YES
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).



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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

4911
4930

ELECTRIC SERVICES
COMBINATION ELECTRIC, GAS, AND OTHER
UTILITY SERVICES

SCC Codes

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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
1-01-004-04	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Tangential Firing
1-01-006-04	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Tangentially Fired Units
1-02-006-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS 10-100 MMBtu/Hr

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	Range
		lbs/yr	
007440-38-2	ARSENIC	> 0	but < 10 tpy
007440-43-9	CADMIUM	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 250 tpy	but < 75,000 tpy
007440-47-3	CHROMIUM	> 0	but < 10 tpy
018540-29-9	CHROMIUM (VI)	> 0	but < 10 tpy
0NY100-00-0	HAP	>= 50 tpy	but < 100 tpy
007647-01-0	HYDROGEN CHLORIDE	>= 10	tpy
007664-39-3	HYDROGEN FLUORIDE	> 0	but < 10 tpy
007439-92-1	LEAD	> 0	but < 10 tpy
007439-97-6	MERCURY	> 0	but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	> 0	but < 10 tpy

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0NY210-00-0	OXIDES OF NITROGEN	>= 250 tpy but < 75,000 tpy
0NY075-00-0	PARTICULATES	>= 250 tpy but < 75,000 tpy
0NY075-00-5	PM-10	>= 250 tpy but < 75,000 tpy
001336-36-3	POLYCHLORINATED BIPHENYL	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 250 tpy but < 75,000 tpy
0NY998-00-0	VOC	>= 50 tpy but < 100 tpy

gen_permit_notification
state_notification

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description

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U-00005	40CFR 60-A	125	General provisions
U-00005	40CFR 60-A.11	136	General provisions - compliance with standards and maintenance requirements
U-00005	40CFR 60-A.12	137	General provisions - Circumvention
U-00005/-/P51	40CFR 60-A.13	143	General provisions - Monitoring requirements
U-00005	40CFR 60-A.14	138	General provisions - Modification
U-00005	40CFR 60-A.15	139	General provisions - Reconstruction
FACILITY	40CFR 60-A.4	49	General provisions - Address
FACILITY	40CFR 60-A.7(a)	50	Notification and Recordkeeping
U-00005	40CFR 60-A.7(b)	126	Notification and Recordkeeping
U-00005	40CFR 60-A.7(c)	127	Notification and Recordkeeping
U-00005	40CFR 60-A.7(f)	128	Notification and Recordkeeping
U-00005	40CFR 60-A.8(a)	129	Performance Tests
U-00005	40CFR 60-A.8(b)	130	Performance Tests
U-00005	40CFR 60-A.8(c)	131	Performance Tests
U-00005	40CFR 60-A.8(d)	132	Performance Tests
U-00005	40CFR 60-A.8(e)	133	Performance Tests
U-00005	40CFR 60-A.8(f)	134	Performance Tests
U-00005	40CFR 60-A.9	135	General provisions - Availability of information
U-00005	40CFR 60-Dc.40c	140	Steam generators 10-100 million Btu per hour
U-00005	40CFR 60-Dc.48c(g)	141	Reporting and Recordkeeping Requirements.
U-00005	40CFR 60-Dc.48c(i)	142	Reporting and Recordkeeping

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U-00001	40CFR 72-A.6(a)(2)	65	Requirements. The Facilities which are in Phase 2 of Title IV and are listed in Table 2 or 3 of 40 CFR Part 73.10.
U-00002	40CFR 72-A.6(a)(2)	81	The Facilities which are in Phase 2 of Title IV and are listed in Table 2 or 3 of 40 CFR Part 73.10.
U-00003	40CFR 72-A.6(a)(2)	97	The Facilities which are in Phase 2 of Title IV and are listed in Table 2 or 3 of 40 CFR Part 73.10.
U-00004	40CFR 72-A.6(a)(2)	113	The Facilities which are in Phase 2 of Title IV and are listed in Table 2 or 3 of 40 CFR Part 73.10.
FACILITY	40CFR 75-B.10(a)	51	Continuous emission monitoring - general operating requirements
FACILITY	40CFR 75-B.10(b)	52	Continuous emission monitoring - general operating requirements
FACILITY	40CFR 75-B.10(c)	53	Continuous emission monitoring - general operating requirements
FACILITY	40CFR 75-B.10(d)	54	Continuous emission monitoring - general operating requirements
FACILITY	40CFR 75-B.10(f)	55	Continuous emission monitoring - general operating requirements
FACILITY	40CFR 82-F	56	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.5	1	Sealing.
FACILITY	6NYCRR 200.6	2	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	3	Maintenance of equipment.
FACILITY	6NYCRR 201-1.10(b)	8	Public Access to Recordkeeping
FACILITY	6NYCRR 201-1.2	4	Permitting - unpermitted emission sources
FACILITY	6NYCRR 201-1.4	145	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.5	5	Emergency defense
FACILITY	6NYCRR 201-1.7	6	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	7	Prohibition of



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				reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	9		Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	10		Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-5	146, 147		State Facility Permit General Provisions
FACILITY	6NYCRR 201-5.3 (b)	148		Permit Content and Terms of Issuance - permit conditions
FACILITY	6NYCRR 201-6	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 57, 58		Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5(c) (3) (ii)	25		Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (e)	24		Compliance Certification
FACILITY	6NYCRR 201-6.5 (g)	26		Permit shield
FACILITY	6NYCRR 202-1.1	27		Required emissions tests.
FACILITY	6NYCRR 202-2.1	28		Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	29		Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	149		General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 211.3	30, 31		General Prohibitions - visible emissions limited
FACILITY	6NYCRR 215	32		Open Fires
U-00001/-/P11	6NYCRR 225-1.2 (d)	66		Sulfur-in-fuel limitations - Table 2
U-00001/-/P13	6NYCRR 225-1.2 (d)	70		Sulfur-in-fuel limitations - Table 2
U-00002/-/P21	6NYCRR 225-1.2 (d)	82		Sulfur-in-fuel limitations - Table 2
U-00002/-/P23	6NYCRR 225-1.2 (d)	86		Sulfur-in-fuel limitations - Table 2
U-00003/-/P31	6NYCRR 225-1.2 (d)	98		Sulfur-in-fuel limitations - Table 2
U-00003/-/P33	6NYCRR 225-1.2 (d)	102		Sulfur-in-fuel limitations - Table 2
U-00004/-/P41	6NYCRR 225-1.2 (d)	114		Sulfur-in-fuel limitations - Table 2
U-00004/-/P43	6NYCRR 225-1.2 (d)	118		Sulfur-in-fuel limitations - Table 2
FACILITY	6NYCRR 225-1.5 (a)	33		General Variances Fuel Mixtures.
FACILITY	6NYCRR 225-1.5 (c)	34		General Variances Experiments
FACILITY	6NYCRR 225-1.6 (b)	35		Compliance.
U-00001/-/P11	6NYCRR 225-1.6 (b)	67		Compliance.
U-00002/-/P21	6NYCRR 225-1.6 (b)	83		Compliance.
U-00003/-/P31	6NYCRR 225-1.6 (b)	99		Compliance.
U-00004/-/P41	6NYCRR 225-1.6 (b)	115		Compliance.
U-00001/-/P11	6NYCRR 225-1.7 (b)	68		Emission and fuel monitoring.
U-00001/-/P13	6NYCRR 225-1.7 (b)	71		Emission and fuel

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U-00002/-/P21	6NYCRR 225-1.7 (b)	84	monitoring. Emission and fuel monitoring.
U-00002/-/P23	6NYCRR 225-1.7 (b)	87	Emission and fuel monitoring.
U-00003/-/P31	6NYCRR 225-1.7 (b)	100	Emission and fuel monitoring.
U-00003/-/P33	6NYCRR 225-1.7 (b)	103	Emission and fuel monitoring.
U-00004/-/P41	6NYCRR 225-1.7 (b)	116	Emission and fuel monitoring.
U-00004/-/P43	6NYCRR 225-1.7 (b)	119	Emission and fuel monitoring.
FACILITY	6NYCRR 225-1.7 (c)	36	Emission and fuel monitoring.
FACILITY	6NYCRR 225-1.8 (a)	37	Reports, sampling and analysis.
FACILITY	6NYCRR 225-1.8 (d)	38	Reports, sampling, and analysis
FACILITY	6NYCRR 225-2.3 (b)	39	Eligibility to burn waste fuel A.
U-00001/-/P13	6NYCRR 225-2.3 (b) (1)	72	Eligibility to burn waste fuel A.
U-00002/-/P23	6NYCRR 225-2.3 (b) (1)	88	Eligibility to burn waste fuel A.
U-00003/-/P33	6NYCRR 225-2.3 (b) (1)	104	Eligibility to burn waste fuel A.
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FACILITY	6NYCRR 225-2.4 (b)	40	Eligibility to burn waste fuels A and B.
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U-00001/-/P11	6NYCRR 227-1.2 (a) (1)	69	Particulate Emissions from Liquid Fuels.
U-00001/-/P13	6NYCRR 227-1.2 (a) (1)	73	Particulate Emissions from Liquid Fuels.
U-00002/-/P21	6NYCRR 227-1.2 (a) (1)	85	Particulate Emissions from Liquid Fuels.
U-00002/-/P23	6NYCRR 227-1.2 (a) (1)	89	Particulate Emissions from Liquid Fuels.
U-00003/-/P31	6NYCRR 227-1.2 (a) (1)	101	Particulate Emissions from Liquid Fuels.
U-00003/-/P33	6NYCRR 227-1.2 (a) (1)	105	Particulate Emissions from Liquid Fuels.
U-00004/-/P41	6NYCRR 227-1.2 (a) (1)	117	Particulate Emissions from Liquid Fuels.
U-00004/-/P43	6NYCRR 227-1.2 (a) (1)	121	Particulate Emissions from Liquid Fuels.
U-00001	6NYCRR 227-1.3	59	Smoke Emission Limitations.
U-00002	6NYCRR 227-1.3	75	Smoke Emission Limitations.
U-00003	6NYCRR 227-1.3	91	Smoke Emission Limitations.
U-00004	6NYCRR 227-1.3	107	Smoke Emission Limitations.
U-00005/00005	6NYCRR 227-1.3 (a)	144	Smoke Emission Limitations.
U-00001	6NYCRR 227-1.4 (a)	150	Stack Monitoring. (see narrative)
U-00002	6NYCRR 227-1.4 (a)	151	Stack Monitoring. (see narrative)
U-00003	6NYCRR 227-1.4 (a)	152	Stack Monitoring.

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U-00004	6NYCRR 227-1.4 (a)	153	(see narrative) Stack Monitoring.
U-00001/00001	6NYCRR 227-1.4 (b)	74	(see narrative) Stack Monitoring
U-00002/00002	6NYCRR 227-1.4 (b)	90	Stack Monitoring
U-00003/00003	6NYCRR 227-1.4 (b)	106	Stack Monitoring
U-00004/00004	6NYCRR 227-1.4 (b)	122	Stack Monitoring
U-00001	6NYCRR 227-2.4 (a) (1)	60	Control requirements for very large boilers.
U-00002	6NYCRR 227-2.4 (a) (1)	76	Control requirements for very large boilers.
U-00003	6NYCRR 227-2.4 (a) (1)	92	Control requirements for very large boilers.
U-00004	6NYCRR 227-2.4 (a) (1)	108	Control requirements for very large boilers.
U-00005	6NYCRR 227-2.4 (c) (2)	123, 124	Emission limitations for mid-sized boilers firing gas, distillate or residual fuels.
U-00001	6NYCRR 227-2.6 (a) (1)	61	Testing, monitoring, and reporting requirements for very large boilers.
U-00002	6NYCRR 227-2.6 (a) (1)	77	Testing, monitoring, and reporting requirements for very large boilers.
U-00003	6NYCRR 227-2.6 (a) (1)	93	Testing, monitoring, and reporting requirements for very large boilers.
U-00004	6NYCRR 227-2.6 (a) (1)	109	Testing, monitoring, and reporting requirements for very large boilers.
FACILITY	6NYCRR 227-3.12	46	AARs - Authorized Account Representatives.
U-00001	6NYCRR 227-3.13	62	Emissions Monitoring
U-00002	6NYCRR 227-3.13	78	Emissions Monitoring
U-00003	6NYCRR 227-3.13	94	Emissions Monitoring
U-00004	6NYCRR 227-3.13	110	Emissions Monitoring
FACILITY	6NYCRR 227-3.16	47	Annual Reconciliation of Allowances and NOx Emissions
FACILITY	6NYCRR 227-3.17	48	Compliance Certification
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U-00002	6NYCRR 231-2.6	79, 80	Emission reduction credits
U-00003	6NYCRR 231-2.6	95, 96	Emission reduction credits
U-00004	6NYCRR 231-2.6	111, 112	Emission reduction credits



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Applicability Discussion:

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

6 NYCRR 200.5

Allows for the sealing of non-compliant air contamination sources

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 201-1.2

Any existing emission source that is required to be permitted or registered but has not done so, must apply for the necessary permit or registration. The source is subject to all regulations that were applicable at the time the original permit or registration was required as well as any subsequent applicable requirements that came into effect since.

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 201-1.5

An enforcement action may be avoided if the facility can demonstrate that an emergency situation occurred which resulted in an emission limitation or permit violation. The following information would constitute evidence of an emergency situation: a properly signed operating log recorded during the actual event which; identifies the cause(s) of the emergency, indicates that all equipment was operating properly at the time, the person responsible took all reasonable steps to minimize the exceedance or violation, and that the department was notified of the emergency within 2 working days of the event.

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 201-1.10 (b)

Any permit application, compliance plan, permit, and monitoring and compliance certification report that is submitted as part of the Title V permit process must be made available to the public as per requirements set forth under 6 NYCRR Part 616 - Public Access to Records and section 114(c) of the Clean Air Act Amendments of 1990.

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



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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 201-5

This regulation applies to those permit terms and conditions which are not federally enforceable. It specifies the applicability criteria for state facility permits, the information to be included in all state facility permit applications as well as the permit content, terms of permit issuance, and sets guidelines for modifying state facility permits and allowing for operational flexibility. For permitting purposes, this rule specifies the need to list all emission units except those that are exempt or trivial pursuant to Subpart 201-3 in the permit application and provide a description of the emission unit's processes and products. Finally, this rule also provides the Department the authority to include this and any other information that it deems necessary to identify applicable Federal standards, recordkeeping and reporting requirements, and establish terms and conditions that will ensure compliance with the national ambient air quality standards.

6 NYCRR 201-5.3 (b)

Lists those contaminants subject to contaminant specific requirements

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 201-6.5 (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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 202-1.1



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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 Part 215

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 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, BETHLEHEM ENERGY CENTER has been determined to be subject to the following regulations:

40 CFR 60.11

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.12

This regulation prohibits an owner or operator from concealing emissions in violation of applicable standards by any means.

40 CFR 60.13

This regulation specifies how monitoring shall be performed and which methods and appendices are used to determine if the monitoring is adequate and in compliance with the regulated standards.

40 CFR 60.14

This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.



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40 CFR 60.15

This regulation defines the term reconstruction and what is and is not considered to be a reconstruction project, for the purpose of rule applicability.

40 CFR 60.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Enforcement and Compliance Assurance.

40 CFR 60.40c

This regulation requires the source owner or operator to comply with the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

40 CFR 60.48c (g)

The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each day.

40 CFR 60.48c (i)

This regulation requires the source owner or operator to retain all records for a minimum of two years.

40 CFR 60.7 (a)

This regulation requires any owner or operator subject to a New Source Performance Standard (NSPS) to furnish the Administrator with notification of the dates of: construction or reconstruction, initial startup, any physical or operational changes, commencement of performance testing for continuous monitors and anticipated date for opacity observations as required.

40 CFR 60.7 (b)

This regulation requires the owner or operator to maintain records of the occurrence and duration of any startup, shutdown, or malfunction of the source or control equipment or continuous monitoring system.

40 CFR 60.7 (c)

This requirement details the information to be submitted in excess emissions and monitoring systems performance reports which must be submitted at least semi-annually for sources with compliance monitoring systems.

40 CFR 60.7 (f)

This condition specifies requirements for maintenance of files of all measurements, including continuous monitoring system (CMS), monitoring device, and performance testing measurements; all CMS performance evaluations; all CMS or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices for at least two years.

40 CFR 60.8 (a)

This regulation contains the requirements for the completion date and reporting of Performance Testing (stack testing), at the facility. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the owner or operator of the facility must conduct performance test(s) and furnish a written report of the test results.

40 CFR 60.8 (b)



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This regulation contains the requirements for Performance test methods and procedures, to be used by the owner or operator , of the affected facility.

40 CFR 60.8 (c)

This condition contains the requirements for operating conditions, of the emission source, during performance testing.

40 CFR 60.8 (d)

This regulation contains the requirements for advance notification of Performance (stack) testing.

40 CFR 60.8 (e)

This regulation requires the facility to provide appropriate sampling ports, safe platforms and utilities as necessary for Performance (stack) testing.

40 CFR 60.8 (f)

This regulation requires that Performance (stack) tests consist of three runs unless otherwise specified. The rule also designates the allowable averaging methods for the analysis of the results.

40 CFR 60.9

This rule citation allows the public access to any information submitted to the EPA Administrator (or state contact), in conjunction with a project subject to this section of the regulation.

40 CFR 72.6 (a) (2)

This section references tables containing a list of utilities affected by Phase II of Title IV of the Clean Air Act. It also references the exceptions, or those that are exempt.

40 CFR 75.10 (a)

This section specifies the primary measurement requirements for opacity, and all SO₂, NO_x, and CO₂ emissions from the facility. It details how often measurements are to be made and the general type of systems to be used.

40 CFR 75.10 (b)

This section requires the facility to meet the equipment, installation, and performance specifications in appendix A ; and the quality assurance and quality control procedures of appendix B to this part.

40 CFR 75.10 (c)

This section requires heat input measurements, for every hour or part of an hour any fuel is combusted, following the procedures in appendix F to this part.

40 CFR 75.10 (d)

This section specifies the operating requirements of the monitoring systems. It requires the facility to ensure that all monitoring systems in operation and functioning as specified, at all times fuel is being burned ,except as provided in § 75.11(e) and during other specified periods.

40 CFR 75.10 (f)

This section specifies the minimum measurement capabilities of the monitoring systems. It requires that the monitoring system be capable of accurately measuring, recording, and reporting data; and that it will not incur an exceedance of the full scale range, except as provided in appendix A to this part.

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40 CFR Part 60, Subpart A

The facility owner is responsible for reviewing the general provisions of 40 CFR 60 in detail and complying with all applicable technical, administrative and reporting requirements therein.

6 NYCRR 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.

6 NYCRR 225-1.2 (d)

The sulfur-in-fuel limitations for residual and distillate oil and for solid fuel are listed in Tables 1,2 and 3 or 6 NYCRR Part 225-1.2(c), (d) and (e)

6 NYCRR 225-1.5 (a)

This regulation allows for the use of a fuel with a sulfur content greater than that allowed on Tables 1,2 or 3 of 6 NYCRR Part 225-1.2 if the source owner can show that the emissions of sulfur dioxide do not exceed the amount allowed using the equation cited in this regulation

6 NYCRR 225-1.5 (c)

This regulation allows the purchase, sale, or use of higher than standard sulfur fuel for use in experimental equipment for reducing sulfur dioxide emissions

6 NYCRR 225-1.6 (b)

This regulation requires that as of January 1, 1988 any person who buys, sells, offer for sale, or uses fuel must comply with the percent sulfur requirements specified in section 6 NYCRR 225-1.2 .

6 NYCRR 225-1.7 (b)

This regulation requires the use of continuous emissions monitors to monitor the emissions of sulfur dioxide. This applies to facilities with a total heat input greater than 250 million BTU per hour, are equipped with approved sulfur dioxide control equipment and are subject to the sulfur dioxide equivalent emission rate pursuant to 6 NYCRR Part 225-1.5(a)

6 NYCRR 225-1.7 (c)

This regulation requires requires that measurements be made daily of the rate of each fuel burned, the gross heat content and ash content of each fuel burned (determined at least once per week), and the average electrical output (daily) and hourly generation rate.

6 NYCRR 225-1.8 (a)

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

6 NYCRR 225-1.8 (d)

This requires that sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the commissioner.

6 NYCRR 225-2.3 (b)



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This regulation requires that each piece of equipment which fires Waste Fuel A demonstrate, at a minimum, 99% combustion efficiency in burning Waste fuel A.

6 NYCRR 225-2.3 (b) (1)

This regulation requires that each piece of equipment which fires Waste Fuel A demonstrate, at a minimum, 99% combustion efficiency in burning Waste fuel A

6 NYCRR 225-2.4 (b)

This regulation sets the limits for the compounds that may be in Waste Fuel A or B. These are: PCB less than 50 parts per million (ppm); Total Halogens less than 1,000 ppm; Sulfur less than the limits in Part 225-1; Lead less than 250 ppm; and a minimum gross heat content of 125,000 BTU/Gallon

6 NYCRR 225-2.7 (e)

This regulation requires the owner or operator to sample and analyze the waste fuel in a manner acceptable to the Department.

6 NYCRR 227-1.2 (a) (1)

This regulation establishes a particulate emission limit in terms of lbs per mmBtu of heat input for stationary combustion units of greater than 250 mmBtu/hr heat input capacity which fire coal, oil, or coal derived fuels.

6 NYCRR 227-1.3

This regulation requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

6 NYCRR 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.

6 NYCRR 227-1.4 (a)

Subdivisions (a) and (f) of this section (227-1.4) have not been approved by EPA and have not been included in the NYS SIP.

6 NYCRR 227-1.4 (b)

This regulation requires the specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

6 NYCRR 227-2.4 (a) (1)

This condition lists the emission limitations for very large boilers.

6 NYCRR 227-2.4 (c) (2)

This regulation requires mid-size boilers (fuel combustion units with a maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour that produce steam or heats water or any other heat transfer medium) to meet the following emission limits (listed in pounds NO_x per million Btu) by May 31, 1985:

0.10

for Distillate Oil - 0.12

for Residual Oil - 0.30

Compliance with these emission limits are determined with a 1-hour average in accordance with section 227-2.6(a)(4). If CEMs are used to determine compliance, the requirements of 227-2.6(b) apply, including the use of a 24-hour averaging period.



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6 NYCRR 227-2.6 (a) (1)

This regulation establishes the monitoring requirements for NOx RACT affected very large boilers (boilers with a heat input of greater than 250 mmBtu/hr).

6 NYCRR 227-3.12

This condition requires the facility to have an Authorized Account Representative for the Pre 2003 NOx Budget Trading Program.

6 NYCRR 227-3.13

This condition included the emissions monitoring requirements for the Pre 2003 NOx Budget Trading Program.

6 NYCRR 227-3.16

This condition spells out the requirements for surrender of allowances for the Pre 2003 NOx Budget Program.

6 NYCRR 227-3.17

This condition lists the requirements for compliance certification for the Pre 2003 NOx Budget Trading Program.

6 NYCRR 231-2.6

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The requirements and criteria for creating and certifying emission reduction credits (ERCs) are set forth in section 231-2.6.

Compliance Certification

Summary of monitoring activities at BETHLEHEM ENERGY CENTER:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
U-00005	141	record keeping/maintenance procedures
FACILITY	51	record keeping/maintenance procedures
FACILITY	52	record keeping/maintenance procedures
FACILITY	53	record keeping/maintenance procedures
FACILITY	54	record keeping/maintenance procedures
FACILITY	55	record keeping/maintenance procedures
FACILITY	25	record keeping/maintenance procedures
FACILITY	24	record keeping/maintenance procedures
FACILITY	28	record keeping/maintenance procedures
FACILITY	31	monitoring of process or control device parameters as surrogate
U-00001/-/P11	66	continuous emission monitoring (cem)
U-00001/-/P13	70	continuous emission monitoring (cem)
U-00002/-/P21	82	continuous emission monitoring (cem)

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U-00002/-/P23	86	continuous emission monitoring (cem)
U-00003/-/P31	98	continuous emission monitoring (cem)
U-00003/-/P33	102	continuous emission monitoring (cem)
U-00004/-/P41	114	continuous emission monitoring (cem)
U-00004/-/P43	118	continuous emission monitoring (cem)
U-00001/-/P11	67	record keeping/maintenance procedures
U-00002/-/P21	83	record keeping/maintenance procedures
U-00003/-/P31	99	record keeping/maintenance procedures
U-00004/-/P41	115	record keeping/maintenance procedures
U-00001/-/P11	68	record keeping/maintenance procedures
U-00001/-/P13	71	record keeping/maintenance procedures
U-00002/-/P21	84	record keeping/maintenance procedures
U-00002/-/P23	87	record keeping/maintenance procedures
U-00003/-/P31	100	record keeping/maintenance procedures
U-00003/-/P33	103	record keeping/maintenance procedures
U-00004/-/P41	116	record keeping/maintenance procedures
U-00004/-/P43	119	record keeping/maintenance procedures
FACILITY	36	record keeping/maintenance procedures
FACILITY	37	record keeping/maintenance procedures
FACILITY	39	work practice involving specific operations
U-00001/-/P13	72	intermittent emission testing
U-00002/-/P23	88	intermittent emission testing
U-00003/-/P33	104	intermittent emission testing
U-00004/-/P43	120	intermittent emission testing
FACILITY	40	record keeping/maintenance procedures
FACILITY	41	work practice involving specific operations
FACILITY	42	record keeping/maintenance procedures
FACILITY	43	work practice involving specific operations
FACILITY	44	work practice involving specific operations
FACILITY	45	work practice involving specific operations
U-00001/-/P11	69	intermittent emission testing
U-00001/-/P13	73	intermittent emission testing
U-00002/-/P21	85	intermittent emission testing
U-00002/-/P23	89	intermittent emission testing
U-00003/-/P31	101	intermittent emission testing
U-00003/-/P33	105	intermittent emission testing
U-00004/-/P41	117	intermittent emission testing
U-00004/-/P43	121	intermittent emission testing
U-00001	59	continuous emission monitoring (cem)
U-00002	75	continuous emission monitoring (cem)
U-00003	91	continuous emission monitoring (cem)
U-00004	107	continuous emission monitoring (cem)
U-00005/00005	144	monitoring of process or control device parameters as surrogate
U-00001	150	monitoring of process or control device parameters as surrogate
U-00002	151	monitoring of process or control device parameters as surrogate
U-00003	152	monitoring of process or control device parameters as surrogate
U-00004	153	monitoring of process or control device parameters as surrogate
U-00001/00001	74	record keeping/maintenance procedures
U-00002/00002	90	record keeping/maintenance procedures
U-00003/00003	106	record keeping/maintenance procedures
U-00004/00004	122	record keeping/maintenance procedures
U-00001	60	continuous emission monitoring (cem)
U-00002	76	continuous emission monitoring (cem)
U-00003	92	continuous emission monitoring (cem)
U-00004	108	continuous emission monitoring (cem)
U-00005	123	monitoring of process or control device parameters as surrogate
U-00005	124	intermittent emission testing
U-00001	62	record keeping/maintenance procedures
U-00002	78	record keeping/maintenance procedures



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U-00003	94	record keeping/maintenance procedures
U-00004	110	record keeping/maintenance procedures
FACILITY	47	record keeping/maintenance procedures
FACILITY	48	record keeping/maintenance procedures

Basis for Monitoring

WORK PRACTICE INVOLVING SPECIFIC OPERATIONS: This type of monitoring involves activities where time of operation, thruput of product, thruput of raw material, or a parameter of a process material thruput is being measured and represents an operating limit.

RECORD KEEPING/MAINTENANCE PROCEDURES: This type of monitoring refers to activities involving the upkeep of records to demonstrate compliance with a requirement of the application of maintenance procedures which may be necessary to maintain acceptable operations.

AMBIENT AIR MONITORING: This type of monitoring involves the direct measurement of contaminate concentrations (including surrogate contaminants if applicable) in the ambient air via instrumentation or devices that are operated on a continuous or periodic basis.

MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE: This type of monitoring involves the indirect measurement of emissions via monitoring of process or control device parameters and performance on a continuous basis (e.g. opacity, flow rates, temperature, pressure drops, ect.)

INTERMITTENT EMISSION TESTING: This type of monitoring involves the direct measurement of contaminate (or surrogate contaminate) emissions from an emission point on a periodic basis.

CONTINUOUS EMISSION MONITORING: This type of monitoring involves the direct measurement of contaminate (or surrogate contaminate) emissions from an emission point using instrumentation which operates on a continuous basis.