

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

Facility Identification Data

Name: WARBASSE HOUSES & POWER PLANT
Address: 2701 WEST 6TH ST
BROOKLYN, NY 11224

Owner/Firm

Name: WARBASSE HOUSES INC
Address: 2800 WEST 5TH ST
BROOKLYN, NY 11224-4626, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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BROOKLYN, NY 11224
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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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



This application involves the permitting of a replacement high-pressure steam boiler at the Amalgamated Warbasse Houses Facility in Brooklyn. The new boiler, a high-pressure boiler that will fire natural gas and No. 2 distillate oil, will replace one of two damaged high-pressure natural gas and no. 6 oil-fired boilers that have not run in several years.

The project also involves the immediate and permanent shutdown of 3 natural gas and distillate-fired combustion turbines, and the eventual shutdown of the two remaining natural gas and distillate-fired combustion turbines, once the new boiler is commissioned and deemed reliable for continuous use. The shutdown of these five turbines will result in the generation of Emission Reduction Credits. This application includes completion of sections to support the generation of ERCs from the 3 turbines (OCT01, OCT04 and OCT05) that have been permanently removed from service. Eventually, a supplemental ERC package will be presented after the time the other 2 turbines are permanently shutdown.

The facility is a major TitleV source since potential emissions of NOx from regulated and exempt sources exceed 25 tons per year. All other regulated pollutants have potential emissions below the major source thresholds. The facility originally consisted of the three high-pressure boilers and auxiliary equipment (i.e. emergency power internal combustion engines). When the 5 combustion turbines were installed, the permit was written such that emission increases were kept below PSD applicability thresholds. At the time, the facility went from supplying domestic hot water, chilled water and electricity to the 8,000 residents of the Warbasse houses to one where excess power was sold to Con Ed via connection to the power grid (power was also imported when the facility could not produce enough internally to residential demand). The facility is currently, and permanently, disconnected from the power grid and will remain so. The sole purpose of the facility is to provide domestic hot water, chilled water and electricity to the Warbasse Houses residents.

Attainment Status

WARBASSE HOUSES & POWER PLANT is located in the town of BROOKLYN in the county of KINGS.

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

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

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



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

Upon completion of this modification, the Warbasse Cogeneration facility will consist of two high-pressure steam boilers. The existing boiler fires natural gas or No. 6 (residual oil) and the new boiler will fire natural gas and No. 2 distillate oil. Two diesel-fired internal combustion engines will remain to provide emergency power. All other combustion equipment at the facility, including 5 natural gas and distillate-fired combustion turbines will be retired. Also, the connection to the Con Ed power grid, used to export and import electricity, has been permanently cut. The new boiler will be connected to an existing stack.

The facility supplies domestic hot water, chilled water and electricity to the 8,000 residents of the nearby Amalgamated Warbasse Housing complex.

Note: this description was created during the January 2006 time frame. There have been no modifications in facility equipment since this time.

Permit Structure and Description of Operations

The Title V permit for WARBASSE HOUSES & POWER PLANT 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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



process - any device or contrivance which may emit air contaminants that is not included in the above categories.

WARBASSE HOUSES & POWER PLANT is defined by the following emission unit(s):

Emission unit UFAC04 - Consists of the following emission source emitting to the same emission point (FAC-04): Emission source ID GEN-02: 16 mmbtu/hr heat input diesel generator, used solely as an emergency generating unit.

Emission unit UFAC04 is associated with the following emission points (EP):

FAC04

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

Process: P06 is located at 1ST, Building POWERHOUSE - Operating source: GEN-02, stationary reciprocating engine. For process P06, unit is fired on No. 2 fuel oil only. Emission unit is limited to 52 hours/year operation only during maintenance and testing.

Emission unit UFAC02 - Emission unit consists of Boiler 3,(BL03).

Emission unit UFAC02 is associated with the following emission points (EP):

FAC02

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

Process: P03 is located at Building POWERHOUSE - Boiler #3 burning gas.

Process: P07Boiler03 operating on No.6 Residual oil.

Emission unit UFAC01 - High pressure steam boiler (OBL04) will be connected to emission unit UFAC01. This emission unit also consists of combustion turbines 2(OCT02), and 3 (OCT03). Emission Unit UFAC01 vents to Emission point FAC01.

Emission unit UFAC01 is associated with the following emission points (EP):

FAC01

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

Process: P01 is located at 1ST, Building POWERHOUSE - All combustion turbines (CT-02, CT-03) operating on natural gas. All turbines connected to this emission point shall fire the same fuel at any given time. All facility turbines shall operate between 50% and 100% load when firing natural gas.

Process: P02 is located at 1ST, Building POWERHOUSE - All combustion turbines (CT-02, CT-03) operating on no. 2 fuel oil. All turbines connected to this emission point shall fire the same fuel at any given time All facility turbines shall operate between 80% and 100% load when firing distillate oil.

Process: P0A is located at 1ST, Building POWERHOUSE - Emission unit UFAC01, process P0A represents the new high-pressure boiler operating on natural gas. Maximum heat input while firing natural gas is 141.7 mmbtu/hr. Thruputs listed below are based on the boiler firing natural gas with a heating value of 1020 btu/cubic foot. The new high-pressure boiler will have an Emission Source ID of OBL04.

Process: P0B is located at 1st floor, Building POWERHOUSE - Emission unit UFAC01, process P0B represents the new high-pressure boiler operating on No. 2 distillate oil. Maximum heat input while firing no. 2 distillate oil is 134.4 mmbtu/hr. Thruputs listed below are based on the boiler firing no. 2 distillate oil with a heating value of 140,000 btu/gallon. The new high-pressure boiler will have an emission source id of OBL04.

Emission unit UFAC03 - Consists of the following emission source emitting to the same emission point (FAC-03): Emission source ID GEN-01: 16 mmbtu/hr heat input diesel generator, used solely as an

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

emergency generating unit

Emission unit UFAC03 is associated with the following emission points (EP):

FAC03

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

Process: P05 is located at 1ST, Building POWERHOUSE - Operating source: GEN-01, stationary reciprocating engine. For process P05, unit is fired on No. 2 fuel oil only. Emission unit is limited to 52 hours/year operation only during maintenance and testing .

Title V/Major Source Status

WARBASSE HOUSES & POWER PLANT is subject to Title V requirements. This determination is based on the following information:

Warbasse Houses & Power Plant is a major facility since the potential emissions of NOx is greater than the major source threshold of 25 tons per year.

Program Applicability

The following chart summarizes the applicability of WARBASSE HOUSES & POWER PLANT with regards to the principal air pollution regulatory programs:

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

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



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
4931	ELEC & OTHER SERVICES COMBINED

SCC Codes

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

SCC Code	Description
1-01-006-01	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Boilers > 100 MBtu/Hr except Tangential
1-02-005-05	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - DISTILLATE OIL Cogeneration
1-02-006-04	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS Cogeneration
1-02-004-05	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - RESIDUAL OIL Cogeneration
2-01-001-07	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) RECIPROCATING: EXHAUST
2-02-001-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
2-02-002-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of 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	Range
000106-99-0	1,3-BUTADIENE (HAP)	> 0	but < 10 tpy
000075-07-0	ACETALDEHYDE (HAP)	> 0	but < 10 tpy
000107-02-8	ACROLEIN (HAP)	> 0	but < 10 tpy
007440-36-0	ANTIMONY (HAP)	> 0	but < 10 tpy
007440-38-2	ARSENIC (HAP)	> 0	but < 10 tpy
000071-43-2	BENZENE (HAP)	> 0	but < 10 tpy
007440-41-7	BERYLLIUM (HAP)	> 0	but < 10 tpy
007440-43-9	CADMIUM (HAP)	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 25	tpy but < 40 tpy
007440-47-3	CHROMIUM (HAP)	> 0	but < 10 tpy
007440-48-4	COBALT (HAP)	> 0	but < 10 tpy
025321-22-6	DICHLOROBENZENE	> 0	but < 2.5 tpy
000100-41-4	ETHYLBENZENE (HAP)	> 0	but < 10 tpy
000050-00-0	FORMALDEHYDE (HAP)	> 0	but < 10 tpy
0NY100-00-0	HAP	> 0	but < 2.5 tpy
000110-54-3	HEXANE (HAP)	> 0	but < 10 tpy
007439-92-1	LEAD (HAP)	> 0	but < 10 tpy
007439-96-5	MANGANESE (HAP)	> 0	but < 10 tpy
007439-97-6	MERCURY (HAP)	> 0	but < 10 tpy
000091-20-3	NAPHTHALENE (HAP)	> 0	but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS (HAP)	> 0	but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	111720	
0NY075-00-0	PARTICULATES	>= 10	tpy but < 25 tpy
007723-14-0	PHOSPHORUS (YELLOW) (HAP)	> 0	but < 10 tpy
0NY075-00-5	PM-10	>= 10	tpy but < 25 tpy
007782-49-2	SELENIUM (HAP)	> 0	but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 50	tpy but < 100 tpy

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



Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006

000108-88-3	TOLUENE (HAP)	> 0 but < 10 tpy
0NY998-00-0	VOC	> 0 but < 2.5 tpy
001330-20-7	XYLENE, M, O & P MIXT. (HAP)	> 0 but < 10 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6NYCRR Part 201-1.5

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

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

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

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

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

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

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

Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)

Owners and/or operators of facilities having an issued Title V permit

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

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 201-6.3(d)(12)

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

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

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

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

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

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

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

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

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

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

If any provisions, parts or conditions of this permit are found to be

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

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 201-6.5(g)

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

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

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

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

- 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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

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

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

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

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

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

Item 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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

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	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	1-67
U-FAC01	40CFR 60-A.13	General provisions - Monitoring requirements	1-42
U-FAC02	40CFR 60-A.13 (c)	General provisions - Monitoring requirements	1-62
U-FAC01	40CFR 60-A.7 (a)	Notification and Recordkeeping	1-36

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



U-FAC01	40CFR 60-A.7(b)	Notification and Recordkeeping	1-37
FACILITY	40CFR 60-A.7(c)	Notification and Recordkeeping	1-32
U-FAC01	40CFR 60-A.7(d)	Notification and Recordkeeping	1-38
FACILITY	40CFR 60-A.7(f)	Notification and Recordkeeping	66
FACILITY	40CFR 60-A.8(a)	Performance Tests	1-33
U-FAC01	40CFR 60-A.8(b)	Performance Tests	1-39
U-FAC01	40CFR 60-A.8(c)	Performance Tests	1-40
U-FAC01	40CFR 60-A.8(d)	Performance Tests	1-41
U-FAC01/-/POB/OBL04	40CFR 60-Db.43b(f)	Standard for Particulate Matter Opacity.	1-58
U-FAC01/-/POA/OBL04	40CFR 60-Db.44b(1)(1)	Standards for Nitrogen Oxides (firing coal, oil, natural gas or a mixture of all).	1-56
U-FAC01/-/POB/OBL04	40CFR 60-Db.44b(1)(1)	Standards for Nitrogen Oxides (firing coal, oil, natural gas or a mixture of all).	1-59
U-FAC01	40CFR 60-Db.46b(d)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.	1-43
U-FAC01	40CFR 60-Db.48b(e)	Emission Monitoring for Particulate Matter and Nitrogen Oxides.	1-44
U-FAC01/FAC01	40CFR 60-Db.48b(f)	Emission Monitoring for Particulate Matter and Nitrogen Oxides.	1-60
U-FAC01	40CFR 60-Db.49b(a)	Reporting and Recordkeeping Requirements.	1-45
U-FAC01	40CFR 60-Db.49b(b)	Reporting and Recordkeeping Requirements.	1-46
U-FAC01	40CFR 60-Db.49b(d)	Reporting and Recordkeeping Requirements.	1-47
U-FAC01	40CFR 60-Db.49b(g)	Reporting and Recordkeeping Requirements.	1-48
U-FAC01	40CFR 60-Db.49b(h)	Reporting and Recordkeeping Requirements.	1-49
U-FAC01	40CFR 60-Db.49b(i)	Reporting and Recordkeeping Requirements.	1-50
U-FAC01	40CFR 60-Db.49b(r)	Reporting and Recordkeeping Requirements.	1-51
FACILITY	40CFR 60-GG.332(a)(2)	NOx Standard units ≥ 10 and ≤ 100 (mmBtu/hr) or with a base load ≤ 30 MW and 100 mmBtu/hr.	1-34
FACILITY	40CFR 60-GG.333(b)	Standard for Sulfur Dioxide	75
U-FAC02	40CFR 60-GG.334(a)	Monitoring of Operations for Turbines Employing Water Injection to	97



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006

FACILITY	40CFR 60-GG.335	Control NOx Test Methods and Procedures	76
FACILITY	40CFR 68	Chemical accident prevention provisions	1-19
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	1-20
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1-1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	1-8
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	113
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	1-9
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	1-10
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	1-11
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	1-12
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	1-21, 23, 78, 79
U-FAC03/FAC03/P05/GEN01	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	110
U-FAC04/FAC04/P06/GEN02	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	112
FACILITY	6NYCRR 201-6.5(a)(4)	General conditions	1-13
FACILITY	6NYCRR 201-6.5(a)(7)	General conditions	
Fees 1-2			
FACILITY	6NYCRR 201-6.5(a)(8)	General conditions	1-14
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	1-3
FACILITY	6NYCRR 201-6.5(c)(2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	1-4
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	1-5
FACILITY	6NYCRR 201-6.5(d)(5)	Compliance schedules	1-15
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	1-6
FACILITY	6NYCRR 201-6.5(f)(6)	Off Permit Changes	1-16
FACILITY	6NYCRR 201-6.5(g)	Permit shield	28
FACILITY	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-22, 1-23
U-FAC01	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-35
U-FAC02	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-61
FACILITY	6NYCRR 202-1.1	Required emissions tests.	1-17
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	30
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping	31

New York State Department of Environmental Conservation



Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006

FACILITY	6NYCRR 211.2	requirements. General Prohibitions - air pollution	116
FACILITY	6NYCRR 211.3	prohibited. General Prohibitions - visible emissions	1-18
FACILITY	6NYCRR 215	limited Open Fires	1-7
FACILITY	6NYCRR 225.1 (a) (3)	Sulfur in Fuel Limitations (SIP)	1-24, 1-25, 1-26
FACILITY	6NYCRR 225.7 (a)	Reports, Sampling and Analysis	1-27
U-FAC01/-/P02/OCT02	6NYCRR 227.2 (b) (1)	Particulate emissions.	1-54
U-FAC01/-/P02/OCT03	6NYCRR 227.2 (b) (1)	Particulate emissions.	1-55
U-FAC01/-/P0B/OBL04	6NYCRR 227.2 (b) (1)	Particulate emissions.	1-57
U-FAC02/-/P07/OBL03	6NYCRR 227.2 (b) (1)	Particulate emissions.	1-66
FACILITY	6NYCRR 227-1.3 (a)	Smoke Emission Limitations.	40
U-FAC01/FAC01	6NYCRR 227-1.3 (a)	Smoke Emission Limitations.	89
U-FAC02/FAC02	6NYCRR 227-1.3 (a)	Smoke Emission Limitations.	104
U-FAC01/FAC01	6NYCRR 227-1.4 (b)	Stack Monitoring	90
U-FAC02/FAC02	6NYCRR 227-1.4 (b)	Stack Monitoring	105
FACILITY	6NYCRR 227-2.4 (b) (1)	Control Requirements for large boilers which are not case by case.	1-28
U-FAC01/-/P01	6NYCRR 227-2.4 (e) (2) (i)	RACT requirements for gas fired combined cycle combustion turbines.	1-52
U-FAC01/-/P02	6NYCRR 227-2.4 (e) (2) (ii)	RACT requirements for combined cycle combustion turbines when firing oil.	1-53
U-FAC02/-/P03/OBL03	6NYCRR 227-2.5 (b)	System-wide averaging option.	1-63
U-FAC02/-/P07	6NYCRR 227-2.5 (b)	System-wide averaging option.	1-64
U-FAC02/-/P07/OBL03	6NYCRR 227-2.5 (b)	System-wide averaging option.	1-65
FACILITY	6NYCRR 227-2.6 (b) (1)	CEMS requirements	1-29
FACILITY	6NYCRR 227-2.6 (b) (2)	CEMS requirements	1-30
FACILITY	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	1-23, 1-31
U-FAC01	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	1-35
U-FAC02	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	1-61

Applicability Discussion:

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

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties

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

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 200-.6

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

6NYCRR Part 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

6NYCRR Part 201-1.4

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

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 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.

6NYCRR Part 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

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

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

pollution control requirements, regulations, or law.

6NYCRR Part 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6NYCRR 201-6.5(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.

6NYCRR 201-6.5(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.

6NYCRR 201-6.5(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.

6NYCRR Part 201-6.5(c)

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

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

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of

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

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

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

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

6NYCRR 201-6.5(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.

6NYCRR Part 201-6.5(e)

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

6NYCRR 201-6.5(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.

6NYCRR Part 201-6.5(g)

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

6NYCRR Part 202-1.1

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.

6NYCRR Part 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

6NYCRR Part 202-2.5

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

must make the information available to department representatives.

6NYCRR Part 211-.2

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

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

40 CFR Part 68.

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

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, WARBASSE HOUSES & POWER PLANT has been determined to be subject to the following regulations:

40CFR 60-A.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.

40CFR 60-A.13 (c)

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



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.

40CFR 60-A.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.

40CFR 60-A.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.

40CFR 60-A.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.

40CFR 60-A.7 (d)

This condition specifies the required information and format for a summary report form and details when either a summary form and/or excess emissions reports are required.

40CFR 60-A.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.

40CFR 60-A.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.

40CFR 60-A.8 (b)

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

40CFR 60-A.8 (c)

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

40CFR 60-A.8 (d)

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



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

40CFR 60-Db.43b (f)

This regulation specifies maximum allowable opacity for affected sources. The opacity of the emission may not exceed 20%, except for one six minute period when the maximum opacity may not exceed 27%.

40CFR 60-Db.44b (1) (1)

This regulation specifies the NSPS nitrogen oxide standard.

40CFR 60-Db.46b (d)

This regulation sets forth the analytical methods to be used to determine the emissions of particulates and opacity of emissions from the facility.

40CFR 60-Db.48b (e)

This condition specifies that the procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

40CFR 60-Db.48b (f)

This regulation requires that standby methods of obtaining minimum emissions data for oxides of nitrogen be specified by the source owner or operator.

40CFR 60-Db.49b (a)

This subdivision requires reporting and recordkeeping for affected steam generating units - initial notification.

40CFR 60-Db.49b (b)

This subdivision requires reporting and recordkeeping for affected steam generating units - initial performance and CEM testing.

40CFR 60-Db.49b (d)

This subdivision requires reporting and recordkeeping for affected steam generating units - annual fuel capacity factors.

40CFR 60-Db.49b (g)

This subdivision requires reporting and recordkeeping for affected steam generating units - specific oxides of nitrogen requirements.

40CFR 60-Db.49b (h)

This condition requires facility to submit excess emission reports.

40CFR 60-Db.49b (i)

This condition requires to submit reports containing the information recorded under paragraph (g) of this section.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



40CFR 60-Db.49b (r)

This regulation specifies that owner or operators that combust very low sulfur oil are required to obtain fuel receipts. The oil need not meet the fuel nitrogen content specification in the definition of distillate oil.

Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition was combusted

40CFR 60-GG.332 (a) (2)

This regulation provides the equation to be used to determine the allowable emissions of oxides of nitrogen (NO_x) from a gas turbine with a heat input greater than 10 million BTU per hour and less than 100 million BTU per hour.

40CFR 60-GG.333 (b)

This regulation limits the amount of sulfur in the fuel burned in a gas turbine.

40CFR 60-GG.334 (a)

This regulation requires the owner or operator of any stationary gas turbine subject to the provisions of 40CFR60 Subpart GG that is using water injection to control NO_x emissions to install and operate a continuous monitoring system to monitor and record fuel consumption and the ratio of water to fuel fired in the turbine

40CFR 60-GG.335

This regulation sets forth the test methods and procedures to be used to measure the emissions of air pollutants from the gas turbine.

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

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

6NYCRR 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is 55.86 tpy of NO_x.

6NYCRR 225 .1 (a) (3)

This regulation limits the amount of sulfur that can be in fuel burned at a stationary source. It references Table 1 of the 1979 version of the sulfur in fuel limitations expressed in terms of percent by weight for fuel oil and pounds per million Btu gross heat content for solid fuel. **NOTE: This citation has been replaced by requirements cited under 225-1.2(a)(2) and is no longer part of current State regulations, however, it remains part of New York State's approved State Implementation Plan (SIP).**

6NYCRR 225 .7 (a)

The commissioner may require an owner of an air contamination source to retain for up to three years, and to submit to him, fuel analyses, information on the quantity of fuel received, burned or sold, and results of stack sampling, stack monitoring and other procedures to ensure compliance with the provisions of the Part. **NOTE: This citation has been replaced by requirements cited under 225-1.8(a) and is**

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



no longer a part of current State regulations, however, it remains as part of New York State's approved State Implementation Plan (SIP).

6NYCRR 227.2 (b) (1)

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

6NYCRR 227-1.3 (a)

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

6NYCRR 227-1.4 (b)

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

6NYCRR 227-2.4 (b) (1)

This paragraph provides a table for gas only, gas and/or oil firing capable, pulverized coal, and overfeed stoker emission limits. Compliance is determined by a stack test.

6NYCRR 227-2.4 (e) (2) (i)

Condition sets the emission sets the emission limits for the turbines.

6NYCRR 227-2.4 (e) (2) (ii)

Condition sets the emission sets the emission limits for the turbines.

6NYCRR 227-2.5 (b)

The system-wide average shall consist of a weighted average allowable emission rate based upon the weighted average of actual emissions from units that are operating. Excess reductions utilized in the system-wide average may only be counted from the lowest allowable emission rate. Simply put, if there is a more stringent emission limit than RACT already in place on the unit, then excess reductions may only be counted from below that emission rate.

6NYCRR 227-2.6 (b) (1)

This condition requires facility to submit preliminary CEMS plan for department approval.

6NYCRR 227-2.6 (b) (2)

The condition requires owner or operator of a source subject to paragraph (a)(1), (2) or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit a CEMS certification protocol at least 60 days prior to compliance testing.

6NYCRR 231-2

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 addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1



06/12/2006

County.

Compliance Certification

Summary of monitoring activities at WARBASSE HOUSES & POWER PLANT:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
U-FAC02	record keeping/maintenance procedures	1-62
FACILITY	record keeping/maintenance procedures	1-32
FACILITY	record keeping/maintenance procedures	66
U-FAC01/-/POB/OBL04	monitoring of process or control device parameters as surrogate	1-58
U-FAC01/-/POA/OBL04	continuous emission monitoring (cem)	1-56
U-FAC01/-/POB/OBL04	continuous emission monitoring (cem)	1-59
U-FAC01	record keeping/maintenance procedures	1-45
U-FAC01	record keeping/maintenance procedures	1-46
U-FAC01	record keeping/maintenance procedures	1-47
U-FAC01	record keeping/maintenance procedures	1-48
U-FAC01	record keeping/maintenance procedures	1-49
U-FAC01	record keeping/maintenance procedures	1-50
U-FAC01	record keeping/maintenance procedures	1-51
FACILITY	record keeping/maintenance procedures	1-34
FACILITY	record keeping/maintenance procedures	75
FACILITY	record keeping/maintenance procedures	76
FACILITY	record keeping/maintenance procedures	1-21
U-FAC03/FAC03/P05/GEN01	record keeping/maintenance procedures	110
U-FAC04/FAC04/P06/GEN02	record keeping/maintenance procedures	112
FACILITY	record keeping/maintenance procedures	1-5
FACILITY	record keeping/maintenance procedures	1-6
FACILITY	monitoring of process or control device parameters as surrogate	1-23
U-FAC01	monitoring of process or control device parameters as surrogate	1-35
U-FAC02	monitoring of process or control device parameters as surrogate	1-61
FACILITY	record keeping/maintenance procedures	30
FACILITY	work practice involving specific operations	1-24
FACILITY	work practice involving specific operations	1-25
FACILITY	work practice involving specific operations	1-26
FACILITY	record keeping/maintenance procedures	1-27
U-FAC01/-/P02/OCT02	intermittent emission testing	1-54
U-FAC01/-/P02/OCT03	intermittent emission testing	1-55
U-FAC01/-/POB/OBL04	intermittent emission testing	1-57
U-FAC02/-/P07/OBL03	intermittent emission testing	1-66
FACILITY	monitoring of process or control device parameters as surrogate	40
U-FAC01/FAC01	monitoring of process or control device parameters as surrogate	89
U-FAC02/FAC02	monitoring of process or control device parameters as surrogate	104
U-FAC01/FAC01	record keeping/maintenance procedures	90
U-FAC02/FAC02	record keeping/maintenance procedures	105
FACILITY	record keeping/maintenance procedures	1-28
U-FAC01/-/P01	continuous emission monitoring (cem)	1-52
U-FAC01/-/P02	continuous emission monitoring (cem)	1-53



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006

U-FAC02/-/P03/OBL03	intermittent emission testing	1-63
U-FAC02/-/P07	monitoring of process or control device parameters as surrogate	1-64
U-FAC02/-/P07/OBL03	intermittent emission testing	1-65
FACILITY	record keeping/maintenance procedures	1-29
FACILITY	record keeping/maintenance procedures	1-30
FACILITY	work practice involving specific operations	1-31

Basis for Monitoring

6 NYCRR 201-7- Capping regulation Part 231-2. This modification is to install and operate a new boiler OBL04 of 141.7mmbtu/hr which is capable of firing natural gas and #2 oil to replace two old permanently damaged boilers. Facility also had five turbines and currently three turbines also had been removed from service. With this modification facility wide NOx emissions will be reduced. In the previous Title V permit facility wide NOx emission was capped at 95 tpy to cap out of 231-2 and PSD applicability. In this application Warbasse has accepted a facility wide NOx cap of 55.86 tpy, and the corresponding PTE for contaminants SO2, PM, VOC and CO in tons per year are 54.32, 11.98, 1.76 and 28.59 respectively.

With this permit modification for emission unit UFAC01, which consists of the one new Boiler OBL04 of 141.7 mmbtu/hr and two existing turbines, the NOx emission is limited to 24 tons per year and for emission Unit UFAC02 NOx which consists of one existing boiler of 130 mmbtu/hr the NOx emission is limited to 29.6 tpy. Emission Unit UFAC01 originally had one boiler of 130 mmbtu/hr and two turbines of 59 mmbtu/hr and emission unit UFAC02 had 2 boilers of 130 mmbtu/hr and two turbines of 59 mmbtu/hr. Facility also has two emergency engines under Emission unit U0FAC03 and FAC04 which are restricted to operate 52 hours each per year per old permit. Facility is required to monitor compliance with the NOx emission caps on a monthly basis and required to report compliance at least on a semiannual basis. Facility is required to monitor NOx emissions using continuous emission monitoring systems for emission units UFAC01 and UFAC02 and calculate yearly total NOx emissions on a 12 month rolling basis for each emission unit and facility wide.

The New Boiler, OBL04 is subject to NSPS requirements. Conditions under 40 CFR 60 Subpart A specify the initial notice requirements that the facility needs to follow before that startup boiler, and performance testing requirements for the new boiler using approved methods. The permit also requires facility to maintain records at the facility for the CEM system and the reporting requirements for excess emissions for opacity and NOx.

40 CFR 60.7(c) - This condition details information to be submitted in excess emissions and monitoring systems performance reports which must be submitted semiannually for sources with compliance monitoring systems.

40CFR 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.

40 CFR60Db43b(f) - This condition specifies the opacity limits and requests facility to monitor opacity with a continuous opacity monitor while burning oil.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006

40 CFR60Db44b(1)(1) - NOx emissions from OBL04 is limited to 0.20 lbs/mmbtu as per NSPS when firing natural gas and distillate oil which is stringent than the NYCRR Part 227-2 RACT limit for large boiler 0.3 lbs/mmbtu/hr for boiler firing oil or gas. Facility is required to install a continuous emission monitoring system to monitor NOx on a continuous basis.

40 CFR 60.49b(r) Facility chose demonstrate the compliance with sulfur limits by firing very low sulfur oil and required to demonstrate compliance by obtaining and maintaining at the facility fuel receipts from the fuel supplier which certify that the oil meets the definition of distillate oil as defined 40CFR60.41b.

Facility currently has two combined cycle turbines at the site which are subject to 227-2.4(e)2 and 40 CFR GG. Warbasse plans to retire these two turbines when the new boiler 4 is installed and fully operational. Compliance with the NOx emission limits will be verified thru continuous emission monitoring systems as long as these turbines are operational.

6 NYCRR Part 225.1(a)(3) Condition limits the percent by weight of sulfur in distillate oil to 0.2% by weight for the OBL04.

6 NYCRR Part 225.7(a) Condition requires the permittee to maintain fuel oil supplier certifications for each oil shipment received at the facility. The monitoring method being employed is appropriate for the sulfur-in-fuel applicable requirement for the facility.

Part 227.2(b)(1): Conditions establish a particulate limit of 0.10 lbs/mm Btu for all combustion units when burning oil. Compliance is demonstrated via a periodic stack test as required under the regulation. The regulation is from the 1972 version of Part 227 which still remains as part of New York's SIP.

NYCRR 227-1.3(a): At emission point FAC01 and FAC02 Warbasses monitors opacity by using continuous opacity monitors to ensure compliance with the opacity limits.

NYCRR Part 227-2.5 b Boiler 3 BL-03:

Boiler 3 is subject to 6 NYCRR Part 227-2.4b(1) and under NOX RACT large boiler firing natural gas/oil is limited to a NOx emission rated of 0.3 lb/mmbtu. Boiler 3 does meet the NOx RACT emission limit of 0.3 lbs/mmbtu while burning natural gas but not during oil firing. Therefore, Warbasse opted to comply with NOx RACT utilizing the system wide averaging option under 227-2.5(b) (attachment 3A dated 3/23/06).The averaging plan will be implemented by imposing the following restrictions:

NOx Emission Limit for BL03

during natural gas firing: 0.15 lb/mmBtu
during #6 residual oil firing: 0.5 lb/ NOx/mmBtu

The compliance with 227-2.4 will be verified by the following formula:

$$0.60\text{mmBTU/yr} \times 0.15 \text{ lb/mmBtu} + 0.40\text{mmBTU/yr} \times 0.5 \text{ lb/mmBtu} = 0.296 \text{ pounds of NOx/mmBtu.}$$

Boiler 3 is limited to burn #6 oil during the non ozone season, ie May 1 through September 30 of each calendar year Boiler 3 can only fire natural gas, and twelve month consumption (rolled monthly) of

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6107-00141/00001 Modification Number: 1

06/12/2006



#6 residual oil by boiler shall not exceed 40% of the total fuel consumption by boiler on a Btu basis.

Warbasse is required to report average NOx emissions to the Department fuel consumption by the boiler expressed in either gallons or cubic feet, and % of total Btus for each fuel used, and the emission rates shall be verified by performing stack test every two years.