



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

Permit ID: 2-6007-00259/00033

Renewal Number: 1

Modification Number: 2 12/30/2011

Facility Identification Data

Name: NYC-DOC - RIKERS ISLAND

Address: 17-25 HAZEN ST

EAST ELMHURST, NY 11370

Owner/Firm

Name: NYC DEPT OF CORRECTION

Address: 60 HUDSON ST RM 719

NEW YORK, NY 10013-3001, USA

Owner Classification: Municipal

Permit Contacts

Division of Environmental Permits:

Name: ELIZABETH A CLARKE

Address: NYSDEC

47-40 21ST ST

LONG ISLAND CITY, NY 11101-5407

Phone:7184824997

Division of Air Resources:

Name: CICYLY T NIRAPPEL

Address: HUNTERS POINT PLAZA

LONG ISLAND CITY, NY 11101

Phone:7184824944

Air Permitting Contact:

Name: CURTIS PIERRE

Address: NYC-DOC SUPPORT SERVICES DIVISION

17-25 HAZEN ST

EAST ELMHURST, NY 11370

Phone:7185461488

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

THE NEW YORK CITY DEPARTMENT OF CORRECTION (NYCDC) IS SEEKING TO CONSTRUCT TWO NEW 7.5 MW NATURAL GAS-FIRED SIMPLE CYCLE GAS COMBUSTION TURBINES (CTGS) EQUIPPED WITH DUCT FIRING HEAT RECOVERY STEAM GENERATORS (HRSGS) AS AN ADDITIONAL AND RELIABLE ON-SITE SOURCE OF POWER GENERATION TO



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REDUCE THE NEED FOR OFF-SITE POWER TO A MINIMUM. THE TURBINES WOULD BE HOUSED IN A NEW BUILDING APPROXIMATELY 39.5 FEET IN HEIGHT. EACH TURBINE WOULD HAVE INDIVIDUAL EXHAUST STACK, A MAIN STACK FOR THE EXHAUST FROM THE DUCT FIRING HRSGS. THE MAIN STACKS WOULD BE APPROXIMATELY 150 FEET ABOVE GROUND. NATURAL GAS WILL BE THE SOLE FUEL BURNED. AN ENVIRONMENTAL ASSESSMENT STATEMENT (EAS) FOR THE PROPOSED PROJECT HAS ALSO BEEN SUBMITTED.

THIS PERMIT MODIFICATION IS FOR THE INSTALLATION OF A NEW COGENERATION PLANT, CONSISTING OF TWO 7.5 MW NATURAL GAS-FIRED SIMPLE CYCLE GAS TURBINES EQUIPPED WITH DUCT FIRING HEAT RECOVERY STEAM GENERATORS (HRSGS), AND ONE 2 MW EMERGENCY BLACKSTART ENGINE GENERATOR. THE COGENERATION PLANT IS BEING PERMITTED UNDER NEW EMISSION UNIT U00011. NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 42.00 TPY AND 15.77 TPY, RESPECTIVELY IN ORDER TO AVOID NANSR AND PSD APPLICABILITY. UNDER 231-6.2. THE FACILITY IS ACCEPTING A PERMIT CONDITION PROHIBITING THE PROPOSED COGENERATION PLANT FROM COMMENCING CONSTRUCTION OF UNTIL AFTER THE CLOSE OF THE CONTEMPORANEOUS PERIOD FOR THE PLM UNITS, WHICH IS 7/17/2012.

IN ADDITION, THE FACILITY IS CURTAILING OPERATIONS OF THE EIGHT EXISTING BOILERS (EMISSION SOURCES 0001, 0002, 0003, 0004, 0005, 0006, 0007, AND 0008). FOR U00001, NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 8.00 TPY AND 1.10 TPY, RESPECTIVELY. FOR U0002, NOX AND PM10 EMISSIONS ARE PROPOSED TO B E CAPPED AT 2.00 TPY AND 0.28 TPY, RESPECTIVELY. FOR U00003, NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 1.00 TPY AND 0.14 TPY, RESPECTIVELY. EMISSION REDUCTION CREDITS ARE BEING APPLIED FOR AND USED IN THE 231-6.2 AND 231-8.2 NETTING ANALYSES FOR THE PROPOSED COGENERATION PLANT. THE NETTING ANALYSES SHOW THAT THE NET EMISSIONS INCREASE FOR NOX AND PM10 ARE BELOW THE SIGNIFICANT NET EMISSION INCREASE THRESHOLDS OF 25 TPY AND 15 TPY FOR NOX AND PM10 RESPECTIVELY.

IN SUMMARY, THE FACILITY WILL OPERATE IN FULL COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL AIR QUALITY REGULATIONS AND STANDARDS, INCLUDING PSD, NANSR, NEW SOURCE PERFORMANCE STANDARDS (NSPS), AND NOX REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT). THE FACILITY PROPOSES TO TRACK ANNUAL NOX AND PM10 EMISSIONS FROM THE COGENERATION FACILITY.

Attainment Status

NYC-DOC - RIKERS ISLAND is located in the town of BRONX in the county of BRONX. 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



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

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

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

Facility Description:

THE NEW YORK CITY DEPARTMENT OF CORRECTION (NYC DOC) MAINTAINS A PRISON FACILITY ON RIKERS ISLAND IN THE EAST RIVER, NEAR BOTH THE BOROUGH OF QUEENS AND THE BRONX. A POWERHOUSE OPERATES IN A SEPARATE STRUCTURE ON THE ISLAND, PRODUCING STEAM TO PROVIDE HEAT FOR THE ENTIRE ISLAND, AS WELL AS PROCESS STEAM FOR THE LAUNDRY.

THE POWERHOUSE HAS EIGHT BOILERS WITH A CAPACITY OF 96 MMBTU/HR EACH, FIRING NATURAL GAS OR DISTILLATE OIL AS BACK UP. THE EIGHT BOILERS WERE RETROFITTED WITH LOW NOX BURNERS, UTILIZING NATURAL GAS AS THE PRIMARY FUEL AND #2 FUEL OIL AS BACK UP. THE EIGHT BOILERS EXHAUST THROUGH EMISSION POINTS U00001, U00002, AND U00003. UNDER 2-6007-00259/00033 MODIFICATION 2, THE FACILITY PROPOSED AND WAS ISSUED A PERMIT TO REMOVE THE CONTINUOUS OPACITY MONITORING REQUIREMENTS AT EMISSION POINTS U0002 AND U0003, SINCE THE COMBINED HEAT INPUT TO THESE EMISSION POINTS ARE LESS THAN 250 MMBTU/HR. THE FACILITY MONITORS THE OPACITY FOR THESE EMISSION POINTS USING A VISIBLE EMISSION METHOD. THE FACILITY ALSO OPERATES A SPRAY PAINT BOOTH (U00009), WHICH IS LOCATED IN THE GARAGE WHERE THE VEHICLES ARE SERVED. THE SPRAY BOOTH IS USED FOR PAINTING REPAIRED PARTS OF BUSES AND VEHICLES FOR THE DOC. THE MAXIMUM ANNUAL EMISSIONS OF VOC FROM THE PAINTING PROCESS ARE LIMITED TO 2.5 TONS PER YEAR. THE FACILITY ALSO OPERATES NINETEEN (19) INTERNAL COMBUSTION ENGINES IN A PEAK LOAD MANAGEMENT (PLM) PROGRAM WITH CON EDISON, THE LOCAL UTILITY (U00010). THESE ENGINES, PERMITTED ON 7/17/2007, ARE SUBJECT TO A NOX EMISSION CAP OF 22.5 TONS PER YEAR. FIFTEEN OF THE NINETEEN ENGINES ARE PERMITTED TO OPERATE UNDER NOX RACT VARIANCE EMISSION LIMITS.

THIS PERMIT MODIFICATION IS FOR THE INSTALLATION OF A NEW COGENERATION PLANT, CONSISTING OF TWO 7.5 MW NATURAL GAS-FIRED SIMPLE CYCLE GAS TURBINES EQUIPPED WITH DUCT FIRING HEAT RECOVERY STEAM GENERATORS (HRSGS) AND ONE 2 MW EMERGENCY BLACKSTART ENGINE GENERATOR. THE COGENERATION PLANT IS BEING PERMITTED UNDER NEW EMISSION UNIT U00011. NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 42.00 TPY AND 15.77 TPY, RESPECTIVELY IN ORDER TO AVOID NANSR AND PSD APPLICABILITY. RELATIVE TO VOC AND PM2.5 TOTAL EMISSIONS ARE LESS THAN 25 TPY AND 100 TPY, RESPECTIVELY; THEREFORE, NANSR IS NOT APPLICABLE TO THESE POLLUTANTS. UNDER 231-6.2. THE FACILITY IS ACCEPTING A PERMIT CONDITION PROHIBITING THE PROPOSED COGENERATION PLANT FROM COMMENCING CONSTRUCTION OF UNTIL AFTER THE CLOSE OF THE CONTEMPORANEOUS



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PERIOD FOR THE PLM UNITS, WHICH IS 7/17/2012.

IN ADDITION, THE FACILITY IS CURTAILING OPERATIONS OF THE EIGHT EXISTING BOILERS (EMISSION SOURCES 0001, 0002, 0003, 0004, 0005, 0006, 0007, AND 0008). FOR U00001, NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 8.00 TPY AND 1.10 TPY, RESPECTIVELY. FOR U0002, NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 2.00 TPY AND 0.28 TPY, RESPECTIVELY. FOR U00003, NOX AND PM10 EMISSIONS ARE PROPOSED TO BE CAPPED AT 1.00 TPY AND 0.14 TPY, RESPECTIVELY. EMISSION REDUCTION CREDITS ARE BEING APPLIED FOR AND USED IN THE 231-6.2 AND 231-8.2 NETTING ANALYSES FOR THE PROPOSED COGENERATION PLANT. THE NETTING ANALYSES SHOW THAT THE NET EMISSIONS INCREASE FOR NOX AND PM10 ARE BELOW THE SIGNIFICANT NET EMISSION INCREASE THRESHOLDS OF 25 TPY AND 15 TPY FOR NOX AND PM10 RESPECTIVELY.

Permit Structure and Description of Operations

The Title V permit for NYC-DOC - RIKERS ISLAND

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.

NYC-DOC - RIKERS ISLAND is defined by the following emission unit(s):

Emission unit U00002 - THIS EMISSION UNIT IS COMPRISED OF 2 KEELER 96 MMBTU/HR BOILERS, EACH CAPABLE OF PRODUCING 70,000 LB/HR OF 150 PSI STEAM. EACH BOILER IS RETROFITTED WITH TWO LOW NOX BURNERS. THE TWO BOILERS DISCHARGE THROUGH A COMMON STACK. EMISSION SOURCES LISTED UNDER THIS EMISSION NIT 00005 AND 00006 ARE THE BOILERS NUMBERED AS 2 & 3 IN THE NOX RACT AVERAGING COMPLIANCE PLAN SUBMITTED ON 10/5/01. OPERATION OF THESE TWO BOILERS IS BEING CURTAILED AND ERCS ARE BEING APPLIED FOR AND USED AS INTERNAL OFFSETS.

Emission unit U00002 is associated with the following emission points (EP):
U0002

Process: 003 is located at Building 14 - Firing natural gas in each of the two boilers (005-006, each rated



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at 96 mmbtu/hr. Backup fuel (only during gas interruption) is #2 fuel oil.

Process: 004 is located at Building 14 - Firing #2 fuel oil as backup fuel in the new two boilers during gas interruption.

Emission unit U00003 - THIS EMISSION UNIT IS COMPRISED OF ONE KEELER 96 MMBTU/HR BOILER, AND ONE UNION IRON WORKS BOILER, EACH CAPABLE OF PRODUCING 70,000 LB/HR OF 150 PSI STEAM. EACH BOILER IS RETROFITTED WITH TWO LOW NOX BURNERS. THE TWO BOILERS DISCHARGE THROUGH A COMMON STACK. EMISSION SOURCES LISTED UNDER THIS EMISSION UNIT, 00007, 00008 ARE THE BOILERS NUMBERED AS 4 & 5 IN THE NOX RACT AVERAGING COMPLIANCE PLAN SUBMITTED ON 10/5/01. OPERATION OF THESE TWO BOILERS IS BEING CURTAILED AND ERCS ARE BEING APPLIED FOR AND USED AS INTERNAL OFFSETS.

Emission unit U00003 is associated with the following emission points (EP):
U0003

Process: 005 is located at Building 14 - Firing natural gas.

Process: 006 is located at Building 14 - Firing #2 fuel oil as backup fuel during gas interruption.

Emission unit U00011 - THIS EMISSION UNIT IS COMPRISED OF THE COGENERATION PLANT EQUIPMENT, WHICH INCLUDES TWO NEW 7.5 MW SIMPLE CYCLE NATURAL GAS-FIRED TURBINES EQUIPPED WITH DUCT FIRING HEAT RECOVERY STEAM GENERATORS, AND ONE 2000 KW EMERGENCY BLACKSTART GENERATOR. EACH TURBINE WILL HAVE INDIVIDUAL EXHAUST STACK, A MAIN STACK FOR THE EXHAUST FROM THE DUCT FIRING HRSGS. THE MAIN STACK WOULD BE APPROXIMATELY 150 FEET HIGH. THE EMERGENCY BLACKSTART GENERATOR IS A 2000 KW GENERATOR THAT WOULD BE USED TO KICK-START THE TURBINES IN AN EMERGENCY SITUATION ONLY.

Emission unit U00011 is associated with the following emission points (EP):
U0029, U0031, U0033

Process: 007 is located at Building 15 - Firing natural gas in the cogeneration plant

Process: 008 is located at Building 15 - Firing diesel in the emergency blackstart engine.

Emission unit U00001 - THIS EMISSION UNIT IS COMPRISED OF 4 KEELER 96 MMBTU/HR BOILERS, EACH CAPABLE OF PRODUCING 70,000 LB/HR OF 150 PSI STEAM. EACH BOILER IS RETROFITTED WITH TWO LOW NOX B BURNERS. THE FOUR BOILERS DISCHARGE THROUGH A COMMON STACK. THE FOUR BOILERS FIRE WITH A TOTAL FIRING RATE NOT TO EXCEED 250 MMBTU/HR. EMISSION SOURCES LISTED UNDER THIS EMISSION UNIT 00001, 00002, 00003 AND 00004 ARE THE BOILERS NUMBERED AS 6,7,8 & 9 IN THE NOX RACT AVERAGING COMPLIANCE PLAN SUBMITTED ON 10/5/01. OPERATION OF THESE FOUR BOILERS IS BEING CURTAILED AND ERCS ARE BEING APPLIED FOR AND USED AS INTERNAL OFFSETS.



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Emission unit U00001 is associated with the following emission points (EP):
U0001

at 96 mmbtu/hr. Backup fuel (only during gas interruption) is #2 fuel oil.

Process: 002 is located at Building 14 - Firing #2 fuel oil as a backup fuel in the boilers during natural gas interruption.

Emission unit U00010 - This unit consists of nineteen (19) generators (four 1100 KW, two 800 KW, three 900KW, one 625 KW, and nine 1150 KW), which are permitted to participate in NYPA sponsored CDRP/PLM programs during the power peak seasons at NOx emission rate of 2.2 gm/bhp-hr. Fifteen(15) of these generators were tested in May 2008 which performed at above 2.3 gm/bhp-hr and below 9.0gm/bhp-hr. PM emissions were below 0.1 lbs/mmbtu. The emission factors used in calculating below emissions are tested values (NOx only). For the four(4) generators are not tested, the factor used is 9.0 gm/bhp-hr. Testing of these four generators will be performed at a later date based on DEC's approval and will not participate in PLM/CDRP until a variance/approval is sought. Also note that each generator has individual exhaust.

Emission unit U00010 is associated with the following emission points (EP):

00010, 00011, 00012, 00013, 00014, 00015, 00016, 00017, 00018, 00019, 00020, 00021, 00022, 00023, 00024, 00025, 00026, 00027, 00028

Process: GEN is located at Ground - Firing oil number 2 diesel oil. This unit consists of nineteen (19) generators permitted to participate in NYPA sponsored CDRP/PLM program. However, only fifteen generators will participate in CDRP/PLM programs up on grant variance. In addition to regular testing and emergency, these generators will be operated during peak loading conditions, for an average of 65 hours a year per generator.

Emission unit U00009 - A spray paint booth will be installed in garage for motor vehicle refinishing. The spray paint booth will be used 4 hrs/day, 235 days/yr. Emission exhaust stack will be located above the roof of the garage.

Emission unit U00009 is associated with the following emission points (EP):
00009

Process: 00P is located at first, Building GARAGE - Paint spary booth operation.

Title V/Major Source Status

NYC-DOC - RIKERS ISLAND is subject to Title V requirements. This determination is based on the following information:

This facility is a major facility since its NOx emissions are greater than 25 tons per year.

Program Applicability

The following chart summarizes the applicability of NYC-DOC - RIKERS ISLAND with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO



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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	YES
SIP	YES

NOTES:

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

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

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

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

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

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

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

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229,



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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

7532
9223

TOP AND BODY REPAIR AND PAINT SHOPS
CORRECTIONAL INSTITUTIONS

SCC Codes

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents

a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code

Description

1-02-005-02

1-03-005-02

1-03-006-02

2-02-004-01

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL
INDUSTRIAL BOILER - DISTILLATE OIL
10-100MMBTU/HR **
EXTERNAL COMBUSTION BOILERS -
COMMERCIAL/INDUSTRIAL
COMMERCIAL/INSTITUTIONAL BOILER -
DISTILLATE OIL
10-100MMBTU/HR **
EXTERNAL COMBUSTION BOILERS -
COMMERCIAL/INDUSTRIAL
COMMERCIAL/INSTITUTIONAL BOILER - NATURAL
GAS
10-100 MMBtu/Hr
INTERNAL COMBUSTION ENGINES - INDUSTRIAL
INDUSTRIAL INTERNAL COMBUSTION LARGE BORE
ENGINE
Diesel



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2-03-002-03

INTERNAL COMBUSTION ENGINES -
COMMERCIAL/INSTITUTIONAL
COMMERCIAL/INSTITUTIONAL IC ENGINE -
NATURAL GAS
TURBINE:COGENERATION
SURFACE COATING OPERATIONS
SURFACE COATING APPLICATION - GENERAL
Paint: Solvent-Base

4-02-001-10

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
000630-08-0	CARBON MONOXIDE	>= 50	tpy but < 100 tpy
0NY100-00-0	HAP	>= 10	tpy but < 25 tpy
007439-92-1	LEAD	> 0	but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 50	tpy but < 100 tpy
0NY075-00-0	PARTICULATES	>= 10	tpy but < 25 tpy
0NY075-00-5	PM-10	>= 10	tpy but < 25 tpy
007446-09-5	SULFUR DIOXIDE	>= 10	tpy but < 25 tpy
0NY998-00-0	VOC	>= 2.5	tpy but < 10 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

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



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- (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 - 6 NYCRR 201-1.10(b)

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

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

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

Item 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.



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Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 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 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 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 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



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Department pursuant to the provisions of Part 2 01-6.7 and Part 621.

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

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

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

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

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

Item L: Permit Exclusion - ECL 19-0305

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

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

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable

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Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
-- FACILITY	ECL 19-0301	79	Powers and Duties of the Department with respect to air
U-00001/U0001	40CFR 60-A.13	51	pollution control General provisions - Monitoring
U-00001/U0001	40CFR 60-A.13 (c)	52	requirements General provisions - Monitoring
FACILITY	40CFR 60-A.7 (a)	29, 30	requirements
FACILITY	40CFR 60-A.7 (c)	31	Notification and Recordkeeping
FACILITY	40CFR 60-A.8 (a)	32	Notification and Recordkeeping
FACILITY	40CFR 60-A.8 (b)	33	Performance Tests
FACILITY	40CFR 60-A.8 (d)	34	Performance Tests
U-00001/-/001/00001	40CFR 60-Dc.40c	42	Performance Tests Steam generators 10- 100 million Btu per hour
U-00001/-/001/00002	40CFR 60-Dc.40c	43	Steam generators 10- 100 million Btu per hour
U-00001/-/001/00003	40CFR 60-Dc.40c	44	Steam generators 10- 100 million Btu per hour
U-00001/-/001/00004	40CFR 60-Dc.40c	45	Steam generators 10- 100 million Btu per hour
U-00001/-/002/00001	40CFR 60-Dc.40c	46	Steam generators 10- 100 million Btu per hour
U-00001/-/002/00002	40CFR 60-Dc.40c	47	Steam generators 10- 100 million Btu per hour
U-00001/-/002/00003	40CFR 60-Dc.40c	48	Steam generators 10- 100 million Btu per hour
U-00001/-/002/00004	40CFR 60-Dc.40c	49	Steam generators 10- 100 million Btu per hour

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U-00002/-/003/00005	40CFR 60-Dc.40c	57	Steam generators 10-100 million Btu per hour
U-00002/-/003/00006	40CFR 60-Dc.40c	58	Steam generators 10-100 million Btu per hour
U-00002/-/004/00005	40CFR 60-Dc.40c	59	Steam generators 10-100 million Btu per hour
U-00002/-/004/00006	40CFR 60-Dc.40c	60	Steam generators 10-100 million Btu per hour
U-00003/-/005/00007	40CFR 60-Dc.40c	65	Steam generators 10-100 million Btu per hour
U-00003/-/005/00008	40CFR 60-Dc.40c	66	Steam generators 10-100 million Btu per hour
U-00003/-/006/00007	40CFR 60-Dc.40c	67	Steam generators 10-100 million Btu per hour
U-00003/-/006/00008	40CFR 60-Dc.40c	68	Steam generators 10-100 million Btu per hour
FACILITY	40CFR 60-Dc.43c (c)	35	Standard for Opacity.
U-00001/U0001	40CFR 60-Dc.45c	53	Compliance and Performance Test Methods and Procedures for Particulate Matter.
U-00002/U0002	40CFR 60-Dc.45c	61	Compliance and Performance Test Methods and Procedures for Particulate Matter.
U-00003/U0003	40CFR 60-Dc.45c	69	Compliance and Performance Test Methods and Procedures for Particulate Matter.
U-00001	40CFR 60-Dc.46c (d) (2)	40	Alternative sulfur dioxide emissions monitoring.
U-00002	40CFR 60-Dc.46c (d) (2)	55	Alternative sulfur dioxide emissions monitoring.
U-00003	40CFR 60-Dc.46c (d) (2)	63	Alternative sulfur dioxide emissions monitoring.
U-00001	40CFR 60-Dc.48c	41	Reporting and Recordkeeping Requirements.
U-00002	40CFR 60-Dc.48c	56	Reporting and Recordkeeping Requirements.
U-00003	40CFR 60-Dc.48c	64	Reporting and Recordkeeping Requirements.
U-00011/-/008/00033	40CFR 60-IIII.4205 (b)	2 -28	Emission Standards - 2007 or later Emergency Non Fire Pump Stationary CI-IC Engines Displacing < 30 liters/cylinder



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U-00011/-/008/00033	40CFR 60-IIII.4207(b)	2	-29, 2	-30, 2	-	Stationary Compression Ignition IC Engines - Fuel Requirements beginning October 1, 2010
U-00011/-/008/00033	40CFR 60-IIII.4209(a)	2	-32			Monitoring requirement - Emergency stationary CI-IC engine
FACILITY	40CFR 60-IIII.4211(a)	2	-6			Stationary Compression Ignition Engines - Compliance Requirements
U-00011/-/008/00033	40CFR 60-IIII.4211(e)	2	-33			Stationary IC Engine: Maintenance for emergency engines
U-00011/-/007/00029	40CFR 60-KKKK.4320(a)	2	-26			Stationary Combustion Turbine NSPS - Table 1 NOx emission limits
U-00011/-/007/00030	40CFR 60-KKKK.4320(a)	2	-27			Stationary Combustion Turbine NSPS - Table 1 NOx emission limits
U-00011	40CFR 60-KKKK.4340(a)	2	-20			Stationary Combustion Turbine NSPS - Continuous compliance with NOx limit
U-00011	40CFR 60-KKKK.4365(a)	2	-21			Stationary Combustion Turbine NSPS - Exemption from monitoring total sulfur content of fuel
U-00011/-/007	40CFR 60-KKKK.4375(b)	2	-23			Stationary Combustion Turbine NSPS - Reporting
U-00011/-/007	40CFR 60-KKKK.4400(a)	2	-24			Stationary Combustion Turbine NSPS - Performance test methods
U-00011	40CFR 60-KKKK.4400(b)	2	-22			Stationary Combustion Turbine NSPS - Performance testing for NOx
U-00011/-/007	40CFR 60-KKKK.4415	2	-25			Stationary Combustion Turbine NSPS - conducting performance tests for sulfur
FACILITY	40CFR 68	21				Chemical accident prevention provisions
FACILITY	40CFR 82-F	22				Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1				Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10				Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	80, 2	-34			Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11				Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12				Prohibition of



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				reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13		Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14		Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	23, 36, 37		Title V Permits and the Associated Permit Conditions
U-00011	6NYCRR 201-6	2 -13, 2 -14, 2 -15		Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5(a)(4)	15		General conditions
FACILITY	6NYCRR 201-6.5(a)(7)	2, 2 -1		General conditions Fees
FACILITY	6NYCRR 201-6.5(a)(8)	16		General conditions
FACILITY	6NYCRR 201-6.5(c)	3		Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5(c)(2)	4		Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	5		Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5(d)(5)	17		Compliance schedules
FACILITY	6NYCRR 201-6.5(e)	6		Compliance Certification
FACILITY	6NYCRR 201-6.5(f)(6)	18		Off Permit Changes
FACILITY	6NYCRR 201-7	38, 39		Federally Enforceable Emissions Caps
U-00010/-/GEN	6NYCRR 201-7	1 -3		Federally Enforceable Emissions Caps
U-00011	6NYCRR 201-7	2 -16, 2 -17		Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1	24		Emission Testing, Sampling and Analytical Determinations
FACILITY	6NYCRR 202-1.1	2 -3		Required emissions tests.
FACILITY	6NYCRR 202-1.2	2 -4		Notification.
FACILITY	6NYCRR 202-2.1	7		Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8		Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	2 -5		General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	81, 2 -35		General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 211.3	20		General Prohibitions - visible emissions limited
FACILITY	6NYCRR 215	9		Open Fires
FACILITY	6NYCRR 215.2	2 -2		Open Fires - Prohibitions

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FACILITY	6NYCRR 225.1(a)(3)	26	Sulfur in Fuel Limitations (SIP)
FACILITY	6NYCRR 225.7(a)	27	Reports, Sampling and Analysis
FACILITY	6NYCRR 225-1.7(e)	25	Emission and fuel monitoring.
U-00001/U0001/002	6NYCRR 227.2(b)(1)	54	Particulate emissions.
U-00002/U0002/004	6NYCRR 227.2(b)(1)	62	Particulate emissions.
U-00003/U0003/006	6NYCRR 227.2(b)(1)	70	Particulate emissions.
U-00010/00010/GEN	6NYCRR 227.2(b)(1)	78	Particulate emissions.
U-00010	6NYCRR 227-1.3(a)	1 -19	Smoke Emission Limitations.
U-00011	6NYCRR 227-1.3(a)	2 -18	Smoke Emission Limitations.
U-00001/U0001 FACILITY	6NYCRR 227-1.4(b) 6NYCRR 227-2.4(f)	50 1 -1	Stack Monitoring Stationary internal combustion engines.
U-00011/-/008/00033	6NYCRR 227-2.4(f)(6)	2 -36	Exemption for emergency power ICE's and engine test cells at engine manufacturing facilities
FACILITY	6NYCRR 227-2.5(b)	28	System-wide averaging option.
U-00010/-/GEN/00010	6NYCRR 227-2.5(c)	1 -4	Alterative emission limits
U-00010/-/GEN/00011	6NYCRR 227-2.5(c)	1 -5	Alterative emission limits
U-00010/-/GEN/00012	6NYCRR 227-2.5(c)	1 -6	Alterative emission limits
U-00010/-/GEN/00013	6NYCRR 227-2.5(c)	1 -7	Alterative emission limits
U-00010/-/GEN/00014	6NYCRR 227-2.5(c)	1 -8	Alterative emission limits
U-00010/-/GEN/00015	6NYCRR 227-2.5(c)	1 -9	Alterative emission limits
U-00010/-/GEN/00016	6NYCRR 227-2.5(c)	1 -10	Alterative emission limits
U-00010/-/GEN/00017	6NYCRR 227-2.5(c)	1 -11	Alterative emission limits
U-00010/-/GEN/00018	6NYCRR 227-2.5(c)	1 -12	Alterative emission limits
U-00010/-/GEN/00019	6NYCRR 227-2.5(c)	1 -13	Alterative emission limits
U-00010/-/GEN/00020	6NYCRR 227-2.5(c)	1 -14	Alterative emission limits
U-00010/-/GEN/00022	6NYCRR 227-2.5(c)	1 -15	Alterative emission limits
U-00010/-/GEN/00024	6NYCRR 227-2.5(c)	1 -16	Alterative emission limits
U-00010/-/GEN/00025	6NYCRR 227-2.5(c)	1 -17	Alterative emission limits
U-00010/-/GEN/00027	6NYCRR 227-2.5(c)	1 -18	Alterative emission limits
U-00010	6NYCRR 227-2.6(c)(3)	1 -2	Emission test requirements.
U-00009/-/00P/0000P	6NYCRR 228-1.5	72	Reports, recordkeeping, sampling and analysis



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U-00009/00009/00P/0000P	6NYCRR 228-1.8	73, 74	Table 2
U-00001	6NYCRR 231-10.5	2 -7, 2 -8	Permit requirements
U-00002	6NYCRR 231-10.5	2 -9, 2 -10	Permit requirements
U-00003	6NYCRR 231-10.5	2 -11, 2 -12	Permit requirements
U-00009	6NYCRR 231-2	71	New Source Review in Nonattainment Areas and Ozone Transport Region
U-00010/-/GEN	6NYCRR 231-2	1 -3	New Source Review in Nonattainment Areas and Ozone Transport Region
U-00011	6NYCRR 231-6.2	2 -19	Netting
U-00011	6NYCRR 231-6.4	2 -16, 2 -17	Permit content and terms of issuance

Applicability Discussion:

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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



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6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.5 (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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 201-6.5 (c) (2)

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

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



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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 (d) (5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.5 (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 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR 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.

6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68

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

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable



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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, NYC-DOC - RIKERS ISLAND has been determined to be subject to the following regulations:

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 60.13 (c)

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 60.40c

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 60.4205 (b)

This requirement applies to owners and operators of 2007 model year and later emergency stationary CI IC engines with a displacement less than 30 liters/cylinder that are not fire pump engines. An applicable source must comply with the emission standards for new nonroad CI engines for all pollutants (HC, PM, NO_x, NMHC + NO_x and CO) for the same model year and maximum engine power as per 40 CFR 60.4202.

40 CFR 60.4207 (b)

40 CFR 60.4209 (a)

The owner and/or operator of an emergency stationary compression ignition internal combustion engine subject to this subpart is required to install a non-resettable hour meter.

40 CFR 60.4211 (a)

This regulation states that the owner or operator and must comply with the emission standards specified in 40 CFR 60 Subpart IIII and must operate and maintain the stationary compression ignition internal combustion engine and control device according to the manufacturer's written instructions.

40 CFR 60.4211 (e)



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This regulation states that an emergency stationary internal combustion engine can be run, for maintenance checks, no more than 100 hours per year.

40 CFR 60.4320 (a)

This Condition establishes NOx Limit for turbines.

40 CFR 60.4340 (a)

This condition specifies NOx annual testing requirement for turbines.

40 CFR 60.4365 (a)

This section provides an exemption from monitoring total sulfur content of the fuel used by a facility.

40 CFR 60.4375 (b)

This condition states that submission of stack test report should be within the 60th day following the completion of the performance test.

40 CFR 60.43c (c)

This regulation requires that on or after the date on which the initial performance test is completed or is required to be completed, an affected facility that combusts coal, wood, or oil and has a heat input of 30 million Btu per hour (8.7 MW) or greater, shall not cause any gases to be discharged to the atmosphere, that exhibit an opacity greater than 20% (based on a 6-minute average) or exceeds 27% for one 6-minute period per hour.

40 CFR 60.4400 (a)

This condition specifies initial and subsequent NOx testing requirements.

40 CFR 60.4400 (b)

This condition specifies NOx performance testing requirements.

40 CFR 60.4415

This condition specifies initial and subsequent performance testing requirements for sulfur.



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40 CFR 60.45c

This regulation requires the facility to conduct compliance testing for particulate matter by the methods listed in this section 40 CFR 60-Dc.45c.

40 CFR 60.46c (d) (2)

This regulation allows the owner or operator of an affected facility to determine the average sulfur dioxide emission rate by sampling the fuel prior to its combustion and calculating the emissions.

40 CFR 60.48c

This regulation requires that the facility maintain reports and records in accordance with the provisions of this section 40 CFR 60-Dc.48c.

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 (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 60.8 (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)

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 (d)

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

6 NYCRR 202-1.2

This regulation specifies that the department is to be notified at least 30 days in advance of any required stack test. The notification is to include a list of the procedures to be used that are acceptable to the department. Finally, free access to observe the stack test is to be provided to the department's representative.

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.



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6 NYCRR 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).**

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

6 NYCRR 225-1.7 (e)

This regulation requires source owners subject to 6 NYCRR Part 225-1 to submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, or of measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such excesses if known, for the calendar quarter.

6 NYCRR 227.2 (b) (1)

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

6 NYCRR 227-1.3 (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 (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 (f)

This sections sets NOx RACT limitations for stationary internal combustion engines.

6 NYCRR 227-2.4 (f) (6)

This provision exempts emergency power generating stationary internal combustion engines, and engine test cells at engine manufacturing facilities that are used for either research and development purposes, reliability testing, or quality assurance performance testing from the NOx RACT control requirements.



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6 NYCRR 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.

6 NYCRR 227-2.5 (c)

For sources for which the owner or operator demonstrates that the applicable presumptive RACT emission limit in section 227-2.4 of this Subpart is not economically or technically feasible, the owner or operator can request the department to set a higher source specific emission limit. Economic or technical feasibility must include, but is not limited to, the evaluation of fuel switching, selective catalytic reduction or system averaging as compliance options. This alternative RACT emission limit must be approved by the department and by the administrator as a revision to the State Implementation Plan.

6 NYCRR 227-2.6 (c) (3)

This paragraph requires that the applicant submit stack test results within 60 days of test completion to the Department.

6 NYCRR 228-1.5

The owner or operator of any emission source subject to this Part must maintain and, upon request, provide the department with a certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of each as applied coating, (VOC)_a, used at the facility and to maintain purchase, usage and/or production records of the coating material, including solvents, must be maintained in a format acceptable to the department and, upon request, these records must be submitted to the department.

6 NYCRR 228-1.8

Table 2 lists the processes and a description of products that are regulated by Part 228 and the maximum permitted pounds of volatile organic compounds per gallon of coating at application.

6 NYCRR 231-10.5

This section states what an applicant's permit must and will contain for conditions.

6 NYCRR 231-6.2

This section establishes the requirements for performing a netting analyses.

6 NYCRR 231-6.4

This section states what an applicant's permit must and will contain for conditions.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap



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is 22.5 tons per year NOx for emission unit 00010 which includes the nineteen (19) emergency generators.

6 NYCRR Subpart 202-1

This subpart of Part 202 establishes the general criteria for verifying emissions by means of emissions sampling, testing and associated analytical determinations.

6 NYCRR Subpart 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..

Compliance Certification

Summary of monitoring activities at NYC-DOC - RIKERS ISLAND:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
U-00001/U0001	52	record keeping/maintenance procedures
FACILITY	31	record keeping/maintenance procedures
FACILITY	35	record keeping/maintenance procedures
U-00001	40	monitoring of process or control device parameters as surrogate
U-00002	55	monitoring of process or control device parameters as surrogate
U-00003	63	monitoring of process or control device parameters as surrogate
U-00011/-/008/00033	2-28	record keeping/maintenance procedures
U-00011/-/008/00033	2-29	work practice involving specific operations
U-00011/-/008/00033	2-30	work practice involving specific operations
U-00011/-/008/00033	2-31	work practice involving specific operations
U-00011/-/008/00033	2-32	record keeping/maintenance procedures
FACILITY	2-6	record keeping/maintenance procedures
U-00011/-/008/00033	2-33	record keeping/maintenance procedures
U-00011/-/007/00029	2-26	intermittent emission testing
U-00011/-/007/00030	2-27	intermittent emission testing
U-00011	2-20	record keeping/maintenance procedures
U-00011	2-21	record keeping/maintenance procedures
U-00011/-/007	2-23	record keeping/maintenance procedures
U-00011/-/007	2-25	record keeping/maintenance procedures
U-00011	2-13	record keeping/maintenance procedures
U-00011	2-14	record keeping/maintenance procedures
U-00011	2-15	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
U-00010/-/GEN	1-3	monitoring of process or control device parameters as surrogate
U-00011	2-16	monitoring of process or control device parameters as surrogate
U-00011	2-17	monitoring of process or control device parameters as surrogate
FACILITY	24	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	26	work practice involving specific operations
FACILITY	27	record keeping/maintenance procedures
FACILITY	25	work practice involving specific operations



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U-00001/U0001/002	54	intermittent emission testing
U-00002/U0002/004	62	intermittent emission testing
U-00003/U0003/006	70	intermittent emission testing
U-00010/00010/GEN	78	intermittent emission testing
U-00010	1-19	monitoring of process or control device parameters as surrogate
U-00011	2-18	monitoring of process or control device parameters as surrogate
U-00001/U0001	50	monitoring of process or control device parameters as surrogate
FACILITY	1-1	intermittent emission testing
U-00011/-/008/00033	2-36	record keeping/maintenance procedures
FACILITY	28	record keeping/maintenance procedures
U-00010/-/GEN/00010	1-4	intermittent emission testing
U-00010/-/GEN/00011	1-5	intermittent emission testing
U-00010/-/GEN/00012	1-6	intermittent emission testing
U-00010/-/GEN/00013	1-7	intermittent emission testing
U-00010/-/GEN/00014	1-8	intermittent emission testing
U-00010/-/GEN/00015	1-9	intermittent emission testing
U-00010/-/GEN/00016	1-10	intermittent emission testing
U-00010/-/GEN/00017	1-11	intermittent emission testing
U-00010/-/GEN/00018	1-12	intermittent emission testing
U-00010/-/GEN/00019	1-13	intermittent emission testing
U-00010/-/GEN/00020	1-14	intermittent emission testing
U-00010/-/GEN/00022	1-15	intermittent emission testing
U-00010/-/GEN/00024	1-16	intermittent emission testing
U-00010/-/GEN/00025	1-17	intermittent emission testing
U-00010/-/GEN/00027	1-18	intermittent emission testing
U-00010	1-2	record keeping/maintenance procedures
U-00009/-/00P/0000P	72	record keeping/maintenance procedures
U-00009/00009/00P/0000P	73	record keeping/maintenance procedures
U-00009/00009/00P/0000P	74	record keeping/maintenance procedures
U-00001	2-7	monitoring of process or control device parameters as surrogate
U-00001	2-8	monitoring of process or control device parameters as surrogate
U-00002	2-9	monitoring of process or control device parameters as surrogate
U-00002	2-10	monitoring of process or control device parameters as surrogate
U-00003	2-11	monitoring of process or control device parameters as surrogate
U-00003	2-12	monitoring of process or control device parameters as surrogate
U-00009	71	work practice involving specific operations
U-00011	2-19	record keeping/maintenance procedures

Basis for Monitoring

201- 7 Capping conditions for Cogeneration Plant Emissions for Emission Unit: U00011

NOx: Facility is proposing to limit the NOx emissions to avoid New Source Review major modification, by keeping the new Cogen plant NOx emission to 42.00 tpy, thus keeping the net NOx emission increases below the significant net emission increase threshold 25 tpy.



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Rikers Island proposed to create 17.57 tpy of future NO_x Emission Reduction Credits by operation curtailment of eight existing boilers (emission sources 00001 to 00008) listed under Emission Units U0001, U0002 and U0003. Facility proposed to create future NO_x ERCs of 6.81 tpy, 6.83 tpy and 3.93 tpy from these emission units respectively. These future ERCs will be used in a net emission increase analysis to avoid applicability to the requirements of the new source review regulation Part 231.

Project NO_x emission potential = 42 tpy

Contemporaneous creditable increase/ERCs = 17.57 tpy

NO_x net increase = 42 tpy - 17.77 tpy = 24.43 tpy < 25 tpy. Therefore modification does not result in NSR major modification.

PM-10: Cogeneration plant PM-10 emissions are limited to 15.77 tpy. Facility is proposing to limit the PM-10 emissions to 15.77 tpy to avoid New source review major modification, by keeping the PM-10 net emission increases below the significant net emission increase threshold of 15 tpy.

Rikers Island will create 2.79 tpy of future NO_x emission Reduction Credits by operation curtailment of eight existing boilers (Emission sources 00001 to 00008) listed under Emission Units U0001, U0002 and U0003. Facility will create future PM-10 ERCs of 1.15 tpy, 1.04 tpy and 0.60 tpy from these Emission units respectively. . These future ERCs will be used in a net emission increase analysis to avoid applicability to the requirements of the new source review regulation Part 231.

Project PM-10 emission potential = 15.77 tpy

Contemporaneous creditable increase/ERCs = 2.79 tpy

PM-10 net increase = 15.77 tpy - 2.79 tpy = 12.98 tpy < 15 tpy, therefore modification will not result in NSR major modification.

201-6: Once during the term of the permit, facility is required to perform PM-10 stack emission test for cogeneration units. NO_x emission factors are determined at least once in every 24 months. Emission factors determined from the stack tests are used in the calculations (201-7 conditions) to demonstrate compliance with the annual PM-10 and NO_x emission caps.

Facility is also required to perform PM 2.5 emission test for cogeneration units as per EPA approved test methods (PM 2.5 test methods have been approved recently) to confirm that the net PM 2.5 emission are less than the applicable threshold for a 6 NYCRR Part 231 major modification.



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The Cogen units(tubins and HRSG's) are subjecto 40 CFR 60 Subpart KKKK and the emergency black start generator is subject to 40 CFR 60 Subpart IIII. The permit list requiurements.