



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

**Permit ID: 2-6007-00259/00033**

**Renewal Number: 2**

**01/08/2013**

**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: 75-20 ASTORIA BLVD

EAST ELMHURST, NY 11370-3001, USA

Owner Classification: Municipal

**Permit Contacts**

Division of Environmental Permits:

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47-40 21ST ST

LONG ISLAND CITY, NY 11101-5407

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Division of Air Resources:

Name: CICYLY T NIRAPPEL

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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**

Application for renewal of Air Title V Facility.

**Attainment Status**

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



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

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

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

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

**Facility Description:**

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

1. 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.
2. 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.
3. 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.
4. 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



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

**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 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. 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.

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

U0001

Process: 001 is located at Building 14 - Firing natural gas in each of the four boilers (001-004), each rated at 96 mmbtu/hr. Backup fuel (only during gas interruption) is #2 fuel oil.



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

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 UNIT 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 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 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 U00009 - A spray paint booth has been installed in the garage for motor vehicle refinishing. The spray paint booth is 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 spay booth operation.

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



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CDRP/PLM programs during the power peak seasons at NOx emission rate of 2.3 gm/bhp-hr. Fifteen(15) 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 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.

**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 equal or greater that 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
NESHAP (40 CFR Part 61)	NO



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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, 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



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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**

5541	GASOLINE SERVICE STATIONS
7532	TOP AND BODY REPAIR AND PAINT SHOPS
9223	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	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - DISTILLATE OIL 10-100MMBTU/HR **
1-03-005-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL 10-100MMBTU/HR **
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
2-02-004-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Diesel
2-03-002-03	INTERNAL COMBUSTION ENGINES - COMMERCIAL/INSTITUTIONAL

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4-02-001-10

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

**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.

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

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- (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.

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



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**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 Department pursuant to the provisions of Part 201-6.7 and Part 621.



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

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

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

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

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

**Item L: Permit Exclusion - ECL 19-0305**

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

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

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such

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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**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
-- FACILITY	ECL 19-0301	94	Powers and Duties of the Department with respect to air pollution control
U-00001/U0001	40CFR 60-A.13	46	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.7 (a)	28, 29	Notification and Recordkeeping
FACILITY	40CFR 60-A.7 (c)	30	Notification and Recordkeeping
FACILITY	40CFR 60-A.8 (a)	31	Performance Tests
FACILITY	40CFR 60-A.8 (d)	32	Performance Tests
U-00001	40CFR 60-Dc.40c	41	Steam generators 10-100 million Btu per hour
U-00002	40CFR 60-Dc.40c	51	Steam generators 10-100 million Btu per hour
U-00003	40CFR 60-Dc.40c	59	Steam generators 10-100 million Btu per hour
U-00001/U0001	40CFR 60-Dc.45c	47	Compliance and Performance Test Methods and Procedures for Particulate Matter.
U-00002/U0002	40CFR 60-Dc.45c	55	Compliance and Performance Test Methods and Procedures for Particulate Matter.
U-00003/U0003	40CFR 60-Dc.45c	63	Compliance and Performance Test Methods and Procedures for Particulate Matter.
U-00001	40CFR 60-Dc.46c (d) (2)	42	Alternative sulfur dioxide emissions monitoring.
U-00002	40CFR 60-Dc.46c (d) (2)	52	Alternative sulfur dioxide emissions monitoring.
U-00003	40CFR 60-Dc.46c (d) (2)	60	Alternative sulfur



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U-00001	40CFR 60-Dc.48c	43	dioxide emissions monitoring.
U-00002	40CFR 60-Dc.48c	53	Reporting and Recordkeeping Requirements.
U-00003	40CFR 60-Dc.48c	61	Reporting and Recordkeeping Requirements.
U-00011/-/008/00033	40CFR 60-IIII.4205 (b)	88	Reporting and Recordkeeping Requirements.
U-00011/-/008/00033	40CFR 60-IIII.4207 (b)	89, 90, 91	Emission Standards - 2007 or later Emergency Non Fire Pump Stationary CI-IC Engines Displacing < 30 liters/cylinder Stationary Compression Ignition IC Engines - Fuel Requirements beginning October 1, 2010
U-00011/-/008/00033	40CFR 60-IIII.4209 (a)	92	Monitoring requirement - Emergency stationary CI-IC engine
FACILITY	40CFR 60-IIII.4211 (a)	33	Stationary Compression Ignition Engines - Compliance Requirements
U-00011/-/008/00033	40CFR 60-IIII.4211 (e)	93	Stationary Compression Ignition IC Engines - compliance demonstration
U-00011/-/007/00029	40CFR 60-KKKK.4320 (a)	86	Stationary Combustion Turbine NSPS - Table 1 NOx emission limits
U-00011/-/007/00030	40CFR 60-KKKK.4320 (a)	87	Stationary Combustion Turbine NSPS - Table 1 NOx emission limits
U-00011	40CFR 60-KKKK.4340 (a)	80	Stationary Combustion Turbine NSPS - Continuous compliance with NOx limit
U-00011	40CFR 60-KKKK.4365 (a)	81	Stationary Combustion Turbine NSPS - Exemption from monitoring total sulfur content of fuel
U-00011/-/007	40CFR 60-KKKK.4375 (b)	83	Stationary Combustion Turbine NSPS - Reporting
U-00011/-/007	40CFR 60-KKKK.4400 (a)	84	Stationary Combustion Turbine NSPS - Performance test methods
U-00011	40CFR 60-KKKK.4400 (b)	82	Stationary Combustion Turbine NSPS - Performance testing for NOx
U-00011/-/007	40CFR 60-KKKK.4415	85	Stationary Combustion

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FACILITY	40CFR 68	20	Turbine NSPS - conducting performance tests for sulfur
FACILITY	40CFR 82-F	21	Chemical accident prevention provisions 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	95, 96	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of 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	22, 34, 35	Title V Permits and the Associated Permit Conditions
U-00011	6NYCRR 201-6	73, 74, 75	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	General conditions
FACILITY	6NYCRR 201-6.5 (a) (8)	16	Fees
FACILITY	6NYCRR 201-6.5 (c)	3	General conditions
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	36, 37	Federally Enforceable Emissions Caps
U-00010/-/GEN	6NYCRR 201-7	71	Federally Enforceable Emissions Caps
U-00011	6NYCRR 201-7	76, 77	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	19	Required emissions tests.
FACILITY	6NYCRR 202-1.2	23	Notification.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability

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FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	24	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	97	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
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)	48	Particulate emissions.
U-00002/U0002/004	6NYCRR 227.2(b) (1)	56	Particulate emissions.
U-00003/U0003/006	6NYCRR 227.2(b) (1)	64	Particulate emissions.
U-00010/00010/GEN	6NYCRR 227.2(b) (1)	72	Particulate emissions.
U-00001/U0001	6NYCRR 227-1.3(a)	44	Smoke Emission Limitations.
U-00002/U0002	6NYCRR 227-1.3(a)	54	Smoke Emission Limitations.
U-00003/U0003	6NYCRR 227-1.3(a)	62	Smoke Emission Limitations.
U-00010	6NYCRR 227-1.3(a)	70	Smoke Emission Limitations.
U-00011	6NYCRR 227-1.3(a)	78	Smoke Emission Limitations.
U-00001/U0001	6NYCRR 227-1.4(b)	45	Stack Monitoring
U-00001	6NYCRR 227-2.4(c) (1) (i)	38	1994 NOx RACT presumptive limit.
FACILITY	6NYCRR 227-2.4(f) (3)	98	Emission limit for distillate oil fired engines.
U-00011/-/008/00033	6NYCRR 227-2.4(f) (6)	117	Exemption for emergency power ICE's and engine test cells at engine manufacturing facilities
FACILITY	6NYCRR 227-2.5(b)	99	System averaging plan.
FACILITY	6NYCRR 227-2.5(c)	100, 101	Alternative RACT option.
U-00010/00010/GEN/00010	6NYCRR 227-2.5(c)	102	Alternative RACT option.
U-00010/00011/GEN/00011	6NYCRR 227-2.5(c)	103	Alternative RACT option.
U-00010/00012/GEN/00012	6NYCRR 227-2.5(c)	104	Alternative RACT option.
U-00010/00013/GEN/00013	6NYCRR 227-2.5(c)	105	Alternative RACT option.
U-00010/00014/GEN/00014	6NYCRR 227-2.5(c)	106	Alternative RACT option.
U-00010/00015/GEN/00015	6NYCRR 227-2.5(c)	107	Alternative RACT option.
U-	6NYCRR 227-2.5(c)	108	Alternative RACT

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00010/00016/GEN/00016				option.
U-	6NYCRR 227-2.5 (c)	109		Alternative RACT
00010/00017/GEN/00017				option.
U-	6NYCRR 227-2.5 (c)	110		Alternative RACT
00010/00018/GEN/00018				option.
U-	6NYCRR 227-2.5 (c)	111		Alternative RACT
00010/00019/GEN/00019				option.
U-	6NYCRR 227-2.5 (c)	112		Alternative RACT
00010/00020/GEN/00020				option.
U-	6NYCRR 227-2.5 (c)	113		Alternative RACT
00010/00022/GEN/00022				option.
U-	6NYCRR 227-2.5 (c)	114		Alternative RACT
00010/00024/GEN/00024				option.
U-	6NYCRR 227-2.5 (c)	115		Alternative RACT
00010/00025/GEN/00025				option.
U-	6NYCRR 227-2.5 (c)	116		Alternative RACT
00010/00027/GEN/00027				option.
U-00009/00009	6NYCRR 228-1.4	67		Opacity
U-00009/-/00P/0000P	6NYCRR 228-1.5	66		Reports,
				recordkeeping,
				sampling and analysis
U-	6NYCRR 228-1.8	68, 69		Table 2
00009/00009/00P/0000P				
U-00001	6NYCRR 231-10.5	39, 40		Permit requirements
U-00002	6NYCRR 231-10.5	49, 50		Permit requirements
U-00003	6NYCRR 231-10.5	57, 58		Permit requirements
U-00009	6NYCRR 231-2	65		New Source Review in
				Nonattainment Areas
				and Ozone Transport
				Region
U-00010/-/GEN	6NYCRR 231-2	71		New Source Review in
				Nonattainment Areas
				and Ozone Transport
				Region
U-00011	6NYCRR 231-6.2	79		Netting
U-00011	6NYCRR 231-6.4	76, 77		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



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maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.5 (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)



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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)

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



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for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

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

40 CFR Part 68

This Part lists the regulated substances and 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, 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 60.40c

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, NOx, NMHC + NOx and CO) for the same model year and maximum engine power as per 40 CFR 60.4202.

40 CFR 60.4207 (b)

These conditions specify the fuel oil requirements that the turbines need to meet.

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.



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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)

This citation lists the compliance options for modified and reconstructed compression ignition engines that must comply with emission standards.

40 CFR 60.4320 (a)

This condition sets the 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 60.4400 (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 instead of installing and operating a continuous emissions monitor at the inlet of the control device

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 (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.



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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.

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 (c) (1) (i)

Existing NO<sub>x</sub> RACT presumptive limit that expires on 6/30/14.



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6 NYCRR 227-2.4 (f) (3)

Presumptive NO<sub>x</sub> RACT emission limit for distillate oil fired 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 NO<sub>x</sub> RACT control requirements.

6 NYCRR 227-2.5 (b)

System averaging plan NO<sub>x</sub> RACT compliance option.

6 NYCRR 227-2.5 (c)

Combustion units are required to comply with the alternate NO<sub>x</sub> RACT limit as demonstrated in the NO<sub>x</sub> RACT analysis.

6 NYCRR 228-1.4

This citation prohibits any person from emitting (or to allow emissions) to the outdoor atmosphere having an average opacity of 20 percent or greater for any consecutive six-minute period from any emission source subject to this Part.

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)<sub>a</sub>, 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



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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.

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

**Compliance Certification**

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

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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FACILITY	30	record keeping/maintenance procedures
U-00001	42	monitoring of process or control device parameters as surrogate
U-00002	52	monitoring of process or control device parameters as surrogate
U-00003	60	monitoring of process or control device parameters as surrogate
U-00011/-/008/00033	88	record keeping/maintenance procedures
U-00011/-/008/00033	89	work practice involving specific operations
U-00011/-/008/00033	90	work practice involving specific operations
U-00011/-/008/00033	91	work practice involving specific operations
U-00011/-/008/00033	92	record keeping/maintenance procedures

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FACILITY	33	record keeping/maintenance procedures
U-00011/-/008/00033	93	record keeping/maintenance procedures
U-00011/-/007/00029	86	intermittent emission testing
U-00011/-/007/00030	87	intermittent emission testing
U-00011	80	record keeping/maintenance procedures
U-00011	81	record keeping/maintenance procedures
U-00011/-/007	83	record keeping/maintenance procedures
U-00011/-/007	85	record keeping/maintenance procedures
U-00011	73	record keeping/maintenance procedures
U-00011	74	record keeping/maintenance procedures
U-00011	75	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
U-00010/-/GEN	71	monitoring of process or control device parameters as surrogate
U-00011	76	monitoring of process or control device parameters as surrogate
U-00011	77	monitoring of process or control device parameters as surrogate
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
U-00001/U0001/002	48	intermittent emission testing
U-00002/U0002/004	56	intermittent emission testing
U-00003/U0003/006	64	intermittent emission testing
U-00010/00010/GEN	72	intermittent emission testing
U-00001/U0001	44	monitoring of process or control device parameters as surrogate
U-00002/U0002	54	monitoring of process or control device parameters as surrogate
U-00003/U0003	62	monitoring of process or control device parameters as surrogate
U-00010	70	monitoring of process or control device parameters as surrogate
U-00011	78	monitoring of process or control device parameters as surrogate
U-00001/U0001	45	monitoring of process or control device parameters as surrogate
U-00001	38	intermittent emission testing
FACILITY	98	intermittent emission testing
U-00011/-/008/00033	117	record keeping/maintenance procedures
FACILITY	99	record keeping/maintenance procedures
FACILITY	100	record keeping/maintenance procedures
FACILITY	101	intermittent emission testing
U-00010/00010/GEN/00010	102	intermittent emission testing
U-00010/00011/GEN/00011	103	intermittent emission testing
U-00010/00012/GEN/00012	104	intermittent emission testing
U-00010/00013/GEN/00013	105	intermittent emission testing
U-00010/00014/GEN/00014	106	intermittent emission testing
U-00010/00015/GEN/00015	107	intermittent emission testing
U-00010/00016/GEN/00016	108	intermittent emission testing
U-00010/00017/GEN/00017	109	intermittent emission testing
U-00010/00018/GEN/00018	110	intermittent emission testing
U-00010/00019/GEN/00019	111	intermittent emission testing
U-00010/00020/GEN/00020	112	intermittent emission testing
U-00010/00022/GEN/00022	113	intermittent emission testing
U-00010/00024/GEN/00024	114	intermittent emission testing
U-00010/00025/GEN/00025	115	intermittent emission testing
U-00010/00027/GEN/00027	116	intermittent emission testing
U-00009/00009	67	monitoring of process or control device parameters as surrogate
U-00009/-/00P/0000P	66	record keeping/maintenance procedures
U-00009/00009/00P/0000P	68	record keeping/maintenance procedures

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U-00009/00009/00P/0000P	69	record keeping/maintenance procedures
U-00001	39	monitoring of process or control device parameters as surrogate
U-00001	40	monitoring of process or control device parameters as surrogate
U-00002	49	monitoring of process or control device parameters as surrogate
U-00002	50	monitoring of process or control device parameters as surrogate
U-00003	57	monitoring of process or control device parameters as surrogate
U-00003	58	monitoring of process or control device parameters as surrogate
U-00009	65	work practice involving specific operations
U-00011	79	record keeping/maintenance procedures

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**Basis for Monitoring**

6NYCRR 201-6.5 (c)(3)(ii) - This condition has been added to all Title V permits issued in New York State and specifies that all required monitoring reports are to be submitted at least every 6 months on a calendar year basis in order to comply with Title V requirements regardless of the reporting requirement that may be listed for an individual permit monitoring condition. Any monitoring conditions that may have more frequent reporting requirements will remain in effect as displayed in the permit.

6NYCRR 201-6.5 (e) - This is a record keeping requirement that applies to all Title V facilities. These facilities must submit an annual compliance certification to the NYSDEC and the USEPA.

6 NYCRR 202-2.1 - This is a requirement for all Title V facilities. These facilities must submit an annual emission statement by April 15th of each year.

6 NYCRR Part 211.3 - These conditions specify the limits and monitoring method for opacity of visible emissions from any air contamination source, where continuous opacity monitors are not installed.

6NYCRR Part 225-1.2(a)(2) - This a facility level condition limits sulfur content of distillate oil used at the facility at 0.2 percent by weight. The sulfur content must be determined by the seller. The facility must maintain a log of the sulfur content of oil on a per delivery basis.

6NYCRR Part 225-1.7(e) -This regulation requires source owners submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, and the nature and cause of such excesses if known, for the calendar quarter.

6NYCRR Part 225-1.8 - This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to submit reports to the commissioner



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containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance .

6 NYCRR Part 227.2(b)(1): This condition establishes a particulate emission limit 0.10 lbs/mmbtu for the boilers and the engines burning oil. Stack testing of these sources is required once during the term of the permit.

6NYCRR Part 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 Part 227-1.4(b): Emission Unit U-0001: The combined heat input capacity of four boilers in this emission unit is greater than 250 mmbtu/hr, emitting to one stack and requires continuous opacity monitoring. This regulation requires specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

40CFR 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.

40CFR 60-Dc - Emission Units U-0001 U-0002, U-0003: The boilers in these emission units are subject to this regulation.

40CFR 60-Dc.46c(d)(2) – Emission Units **U-0001 U-0002, U-0003** This condition allows the owner or operator of an affected facility to determine the sulfur content of the fuel oil by sampling the fuel prior to its combustion and calculating the emissions instead of installing and operating a continuous emissions monitors as per the regulation.

**Emission Unit 00001, 00002 & 00003**

This condition is effective till July 1, 2014.

6NYCRR Part 227-2.5(b) The NO<sub>x</sub> RACT limit for mid size boilers are 0.12 lbs/mmbtu for gas and distillate oil mid-size boilers. This condition specifies how facility will demonstrate compliance with NO<sub>x</sub> RACT for eight mid size boilers by using the system wide averaging option according to the October 5, 2001 department approved averaging plan. During the ozone season the emission limits will be enforced on an average daily basis, and during non ozone season the emission limits will be enforced on an average monthly basis, using the data obtained from the most recent stack test.

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6 NYCRR Part 227-2.5(c): This condition becomes effective on or after July 1, 2014 Rikers Island submitted a NOX RACT analysis dated December 2011 and demonstrated that the applicable presumptive RACT emission limit 0.08 lb/mmbtu for eight mid size boiler burning distillate oil or gas is not economically feasible. Facility performed economic analysis as per Air Guide 20 for NOx control technologies and determined that the cost for per ton of NOx reduced will be more than the Department established cost limit of NOx RACT. Facility proposed an alternate NOx emission limit for 0.12 lb/mmbtu for each boiler at its tested emission rate. The most recent stack test was performed on October 2011. This alternative RACT emission limit has been approved by the department and also to be approved by EPA as a revision to the State Implementation Plan. The NOX RACT compliance plan is available for review at the regional office, upon request. Facility needs to verify compliance by performing stack test once during the permit term and to ensure ongoing compliance with the alternate limits, facility is required to perform annual tune-ups for each boiler.

**Emission Unit 00010**

6 NYCRR Part 227-2.5(c)- Rikers Island submitted a NOX RACT analysis dated June 11, 2008, and demonstrated that the applicable presumptive RACT emission limit, 2.3 grams/bhp-hr for fifteen engines(out of 18) (permitted to participate in CDRP/PLM program) per section 227-2.4(f)(2) is not economically feasible. Facility performed economic analysis as per Air Guide 20 for NOx control technologies and determined that the cost for per ton of NOx reduced will be more than the Department established cost limit of NOx RACT. Facility proposed an alternate NOx emission limit for each(fifteen) engine at its tested emission rate. This alternative RACT emission limit has been approved by the department and also to be approved by EPA as a revision to the State Implementation Plan. The NOX RACT Compliance plan is available for review at the regional office, upon request. Facility needs to verify compliance by performing stack test once during the permit term.

6NYCRR Part 227-2.4(f) The NOx RACT limit for four(out of 19) internal combustion engines is 2.3 gr/bhp- These engines may participate in CDRP/PLM program only after demonstrating compliance with NOx RACT emission limit of 2.3 grams per brake horsepower- hour

6NYCRR 201-7 - The NOx emissions from emission unit 00010 which consist of the nineteen (19) engines are monitored and capped to less than 22.5 tons per year on a rolling 12 month period basis.

**Emission Unit U-0009**



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6 NYCRR Part 228.3 (f): With this condition the facility is limited to the use the listed techniques for mobile equipment repair and re finishing or color-matched coating starting January 1, 2005. Condition also provides the equation to calculate VOC content as applied when two or more coatings are used.

6 NYCRR Part 228.5 This condition specifies how a facility should maintain records of VOC compounds at the facility, and how a facility should demonstrate the compliance with this regulation by performing coating analysis using approved methods, upon request by the Department.

6 NYCRR part 228.8: These conditions limit the volatile organic compounds in the coatings used in motor vehicle (mobile equipment). The equation to calculate the VOC content and applied coating is given in the condition cited under 228. 2(b)(35).

6 NYCRR part 228.10 This condition specifies how the facility should handle VOC containing materials and equipments. Condition also requires facility perform daily inspection, and record the details in a log book.

NYCRR Part 231-2 NYC department of correction is proposing to install a spray booth, which will increase the potential VOC emissions from the facility. In order to avoid the requirement of the 231-2, VOC emissions from the spray booth is limited to 2.5 tons per year, which is less than the applicability threshold.

**Emission Unit: U00011**

**201- 7 Capping conditions for Cogeneration Plant Emissions**

NOx: Facility limited the emission unit 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.

Rikers Island proposed to create 17.57 tpy of future NOx 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 NOx 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 NOx emission potential = 42 tpy

Contemporaneous creditable increase/ERCs = 17.57 tpy



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NOx net increase =  $42 \text{ tpy} - 17.77 \text{ tpy} = 24.43 \text{ tpy} < 25 \text{ tpy}$ . 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 NOx 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 =  $15.77 \text{ tpy} - 2.79 \text{ tpy} = 12.98 \text{ tpy} < 15 \text{ tpy}$ , therefore modification will not result in NSR major modification.

The Co generation units(turbines and HRSG's ) are subject to 40 CFR 60 Subpart KKKK and the emergency black start generator is subject to 40 CFR 60 Subpart IIII. The permit lists requirements.