

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6007-00726/00003**

**Renewal Number: 3**

**12/19/2022**

**Facility Identification Data**

Name: HARLEM RIVER YARDS PLANT

Address: E 132ND ST & ROBERT F KENNEDY BRIDGE APPR|APPR 688 EAST 132ND STREET  
BRONX, NY 10454

**Owner/Firm**

Name: NEW YORK POWER AUTHORITY

Address: 123 MAIN ST  
WHITE PLAINS, NY 10601, USA

Owner Classification: State

**Permit Contacts**

Division of Environmental Permits:

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LONG ISLAND CITY, NY 11101

Phone:

Division of Air Resources:

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Air Permitting Contact:

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123 MAIN ST

WHITE PLAINS, NY 10601

Phone:9142873407

**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 a renewal of Air Title V Facility issued to Harlem River Yards Plant. No changes are proposed.

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**Attainment Status**

HARLEM RIVER YARDS PLANT 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
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 facility consists of two natural gas fired simple cycle combustion turbines (GE LM6000) each rated 420mmbtu/hr with its own stack. The turbines will employ spray intercooling systems to optimize power output. The units are each equipped with selective catalytic reduction to control emissions of oxides of nitrogen and catalytic oxidation to control emissions of carbon monoxide. Other equipment on-site includes gas and air compressors, cooling tower lube oil cooling system, water treatment and storage system, ammonia storage and injection system, raw water storage, and auxiliary electrical systems. The stack is approximately 107 feet in height and 144 inches in diameter. The facility is limited to generate a maximum 79.9 megawatts of power. The facility wide nitrogen oxides emissions are limited to 22.5tpy.

Facility also has two Heatec boilers (gas burning), one 60 bhp diesel fire pump, one 746 bhp diesel back-up generator and one 1474 HP Caterpillar(1000KWe) emergency diesel generator which will supply power to start the Harlem River Yards Plant turbine generator in the event of blackout.

**Permit Structure and Description of Operations**

The Title V permit for HARLEM RIVER YARDS PLANT is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a

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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.

HARLEM RIVER YARDS PLANT is defined by the following emission unit(s):

Emission unit 100001 - This emission unit consists of the following:

- 1) Two natural gas fired simple cycle combustion turbines rated 420mmBtu/hr each (with SCR and catalytic oxidation as controls) which shall be operated in the simple cycle,
- 2) Two Heatec boilers (gas burning) used to heat gas turbine combustion inlet air when ambient temperature and humidity could cause icing at the turbine inlet,
- 3) One 60 bhp diesel fire pump, and
- 4) One 746 bhp diesel back-up generator.
- 5) One 1474 HP Caterpillar(1000KWe) emergency diesel generator(EDG) Model Year 2015, which will supply power to start the Harlem River Yards Plant turbine generator in the event of blackout.

Emission unit 100001 is associated with the following emission points (EP):

00001, 00002, 00003, 00004, 00005, 00006, 00007

Process: 001 Two combustion turbines (GE LM6000) firing natural gas.

Process: 002 Natural gas firing in two 7.4 mmBtu/hr boilers.

Process: 003 One 60 bhp diesel fire pump.

Process: 004 One 746 bhp diesel back-up generator.

Process: 005 is located at Building BSEDG - Caterpillar (1000KWe) emergency diesel generator.

**Title V/Major Source Status**

HARLEM RIVER YARDS PLANT is subject to Title V requirements. This determination is based on the following information:

The facility is subject to the provisions of 40 CFR 72, Acid Rain program (also known as AT4 permit). Therefore, it is required to be permitted as a Title V source as well.

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**Program Applicability**

The following chart summarizes the applicability of HARLEM RIVER YARDS PLANT with regards to the principal air pollution regulatory programs:

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

**NOTES:**

**PSD** Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - 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 231-5, 231-6) - 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, 6 NYCRR 200.10) - 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, 6 NYCRR 200.10) - 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, 6 NYCRR 200.10) - 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.

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Title IV Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - 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 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 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, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

**SIC Code**

**Description**

4911	ELECTRIC SERVICES
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**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**

1-02-006-03	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS Less Than 10 MMBtu/Hr
2-01-001-07	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE

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2-01-002-01	- DISTILLATE OIL (DIESEL) RECIPROCATING: EXHAUST INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine
2-02-001-02	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Reciprocating

**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 of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. 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	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
007664-41-7	AMMONIA	100182.4		1902.2	
000124-38-9	CARBON DIOXIDE	435450.7		18723	
000630-08-0	CARBON MONOXIDE	52000		1991.6	
000050-00-0	FORMALDEHYDE	5224.5			
0NY210-00-0	OXIDES OF NITROGEN	45000		4746.4	
0NY075-00-0	PARTICULATES	48565.4		2072	
0NY075-00-5	PM-10	48565.4		2072.2	
007446-09-5	SULFUR DIOXIDE	4566.1		270.3	
000108-88-3	TOLUENE	956.6			
0NY100-00-0	TOTAL HAP			40.8	
0NY998-00-0	VOC	15452.6		663.4	

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

**Item C: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)**

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

**Item D: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)**

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

**Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)**

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

**Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)**

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

**Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)**

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

**Item H: Severability - 6 NYCRR Part 201-6.4(a)(9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item I: Permit Shield - 6 NYCRR Part 201-6.4(g)**

All permittees granted a Title V facility permit shall be covered under the protection of a

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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 J: Reopening for Cause - 6 NYCRR Part 201-6.4(i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the



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permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item K: 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 L: 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: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

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

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

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item\_02

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

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

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
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FACILITY	ECL 19-0301	60	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-A.12	34	General provisions - Circumvention
FACILITY	40CFR 60-A.13	35	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.4	31	General provisions - Address
FACILITY	40CFR 60-A.7(b)	32	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(f)	33	Notification and Recordkeeping
1-00001	40CFR 60-GG.334(a)	58	Monitoring of Operations for Turbines Employing Water Injection to Control NOx
1-00001	40CFR 60-GG.334(h)(4)	59	Custom fuel monitoring schedule
FACILITY	40CFR 60-IIII	36	Standards of Performance for Stationary Compression Ignition

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FACILITY	40CFR 63-ZZZZ	37	Internal Combustion Engines Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	18	Chemical accident prevention provisions
FACILITY	40CFR 72	38	Permits regulation
FACILITY	40CFR 82-F	19	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 97-AAAAA.406	39	Transport Rule (TR) NOx Annual Trading Program Standard
FACILITY	40CFR 97-CCCCC.606	40	Transport Rule (TR) SO2 Group 1 Trading Program Standard
FACILITY	40CFR 97-GGGGG.1006	41	Requirments CSAPR NOx Ozone Season Group 3 Trading Program
FACILITY	6NYCRR 200.6	1	Standard Requirements
FACILITY	6NYCRR 200.7	10	Acceptable ambient air quality.
FACILITY	6NYCRR 201-1.4	61	Maintenance of equipment.
FACILITY	6NYCRR 201-1.7	11	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.8	12	Recycling and Salvage
FACILITY	6NYCRR 201-3.2 (a)	13	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.3 (a)	14	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-6	20, 42, 43	Trivial Activities - proof of eligibility
1-00001	6NYCRR 201-6	44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	15	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (7)	2	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (8)	16	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (c)	3	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (d) (4)	21	Reporting Requirements - Deviations and Noncompliance Compliance Schedules

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FACILITY	6NYCRR 201-6.4 (e)	6	- Progress Reports
FACILITY	6NYCRR 201-6.4 (f)	22	Compliance Certification
FACILITY	6NYCRR 201-7	23	Operational Flexibility
FACILITY	6NYCRR 202-1.1	17	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-2.1	7	Required emissions tests.
FACILITY	6NYCRR 202-2.4 (a) (3)	25	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission statement methods and procedures
FACILITY	6NYCRR 211.1	62	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	26	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	9	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 225-1.2 (d)	27	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.5 (c)	28	Sulfur-in-Fuel Limitation - Distillate Oil
FACILITY	6NYCRR 225-1.6 (f)	29	Fuel Monitoring
FACILITY	6NYCRR 227-1.4 (a)	30	Excess Emission Reports
FACILITY	6NYCRR 242-1.5	63, 64, 65	Opacity Standard
1-00001/-/001/00001	6NYCRR 251.3 (b)	66	CO2 Budget Trading Program - Standard requirements
1-00001/-/001/00003	6NYCRR 251.3 (b)	67	Emission limits for non-modified sources.
			Emission limits for non-modified sources.

**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

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applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

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

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6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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

6 NYCRR 201-6.4 (c) (3) (ii)

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

6 NYCRR 201-6.4 (d) (4)

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

6 NYCRR 201-6.4 (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 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 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR 215.2

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

40 CFR Part 68

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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, HARLEM RIVER YARDS PLANT has been determined to be subject to the following regulations:

40 CFR 60.12

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

40 CFR 60.13

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

40 CFR 60.334 (a)

This regulation requires the owner or operator of any stationary gas turbine subject to the provisions of 40CFR60 Subpart GG that is using water injection to control NO<sub>x</sub> emissions to install and operate a continuous monitoring system to monitor and record fuel consumption and the ratio of water to fuel fired in the turbine

40 CFR 60.334 (h) (4)

This regulation allows the owner or operator of a gas turbine, that has a previously approved custom fuel monitoring schedule, to continue to maintain this schedule without submitting another petition to the EPA.

40 CFR 60.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.7 (b)

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

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40 CFR 60.7 (f)

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

40 CFR 97.1006

40 CFR Part 97 Subpart GGGGG the NO<sub>x</sub> Ozone Season Cross State Air Pollution Rule (CSAPR) requires additional NO<sub>x</sub> reductions from power plants located in twelve (12) states beginning with the 2021 ozone season. It is designed to reduce NO<sub>x</sub> emissions during the ozone season (May - September) for large fossil fuel fired electric generating units that have a nameplate capacity of greater than 25 megawatts electrical and produce electricity for sale. The new Group 3 Trading Program would be in addition to the existing Groups 1 and 2 NO<sub>x</sub> Ozone Trading Programs. The final rule does not include ozone season NO<sub>x</sub> emission limits for non-EGUs.

40 CFR 97.406

This condition provides the general requirements for implementing EPAs Transport Rule (TR) 40 CFR Part 97, Subpart AAAAA; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of Nitrogen Oxide (NO<sub>x</sub>) and to hold TR annual NO<sub>x</sub> allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR 97.606

This condition provides the general requirements for implementing EPAs Transport Rule (TR) 40 CFR Part 97, Subpart CCCCC; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of sulfur dioxide (SO<sub>2</sub>) annually and to hold TR annual SO<sub>2</sub> allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR Part 60, Subpart IIII

Subpart IIII applies to new and reconstructed compression ignition reciprocating internal combustion engines. Sources subject to Subpart IIII must comply with emission standards for hydrocarbons, nitrogen oxides, carbon monoxide, and particulate matter.

40 CFR Part 63, Subpart ZZZZ

This regulation states requirements for emissions of hazardous air pollutants from stationary reciprocating



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internal combustion engines.

40 CFR Part 72

In order to reduce acid rain in the U.S. and Canada, Title IV of the Clean Air Act Amendments of 1990 requires the establishment of a program to reduce emissions of SO<sub>2</sub> and NO<sub>x</sub> (sulfur dioxide and oxides of nitrogen). Fossil fuel burning electric utility companies are a major source of these contaminants in the US. These sources were regulated in a phased approach. Phase I, which began in 1995, requires 110 of the higher-emitting utility plants in the eastern and Midwest states to meet intermediate SO<sub>2</sub> emission limitations. Phase II, which began in 2000, tightens the emission limitations and expands the coverage to most fossil fuel burning utilities. The utilities are given "allowances" which is a limited authorization to emit one ton of SO<sub>2</sub>. The utilities are required to limit SO<sub>2</sub> emissions to the number of allowances they hold. Some can benefit however by reducing their emissions and selling their excess allowances. Part 72 contains the means of implementing this portion of Title IV of the Clean Air Act.

6 NYCRR 201-6.4 (f)

This section describes the potential for certain operational changes to be made by the facility owner or operator without first obtaining a permit modification. Changes made pursuant to this provision must meet all of the criteria described in this section to qualify for consideration as operational flexibility. The Department reserves the right to require the facility owner or operator to obtain a permit modification prior to making any changes at the facility pursuant to this section.

6 NYCRR 202-2.4 (a) (3)

Once a facility is required to submit annual emission statements electronically, emission statements must be submitted to the department per the specified schedule, in this regulation beginning the reporting year that a Title V permit containing a condition mandating electronic submittal is issued.

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 225-1.2 (d)

This subdivision sets the sulfur-in-fuel limitation for distillate oil fired emission sources throughout the State.

6 NYCRR 225-1.5 (c)

This subdivision requires specific measurements of the fuel fired at a facility that

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employs a CEM.

6 NYCRR 225-1.6 (f)

This subdivision requires the submission of excess emission reports when the the sulfur-in-fuel limitation, equivalent emission rate, or measured emissions exceeds the allowable standard.

6 NYCRR 227-1.4 (a)

This subdivisions sets the opacity standard for subject stationary combustion installations.

6 NYCRR 242-1.5

His regulation requires that the facility hold enough carbon dioxide allowances in their carbon dioxide budget at least equal to the amount of carbon dioxide emitted from the facility each year.

6 NYCRR 251.3 (b)

Emission limits for non-modified sources.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit the emission cap 22.5 tpy is for NOx.

**Compliance Certification**

**Summary of monitoring activities at HARLEM RIVER YARDS PLANT:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
---		
1-00001	58	record keeping/maintenance procedures
FACILITY	39	record keeping/maintenance procedures
FACILITY	40	record keeping/maintenance procedures
FACILITY	41	record keeping/maintenance procedures
1-00001	44	work practice involving specific operations
1-00001	45	record keeping/maintenance procedures
1-00001	46	monitoring of process or control device parameters as surrogate
1-00001	47	monitoring of process or control device parameters as surrogate
1-00001	48	intermittent emission testing

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1-00001	49	continuous emission monitoring (cem)
1-00001	50	continuous emission monitoring (cem)
1-00001	51	continuous emission monitoring (cem)
1-00001	52	continuous emission monitoring (cem)
1-00001	53	continuous emission monitoring (cem)
1-00001	54	continuous emission monitoring (cem)
1-00001	55	continuous emission monitoring (cem)
1-00001	56	intermittent emission testing
1-00001	57	continuous emission monitoring (cem)
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	24	continuous emission monitoring (cem)
FACILITY	7	record keeping/maintenance procedures
FACILITY	27	work practice involving specific operations
FACILITY	28	record keeping/maintenance procedures
FACILITY	29	record keeping/maintenance procedures
FACILITY	30	monitoring of process or control device parameters as surrogate
FACILITY	64	record keeping/maintenance procedures
FACILITY	65	record keeping/maintenance procedures
1-00001/-/001/00001	66	continuous emission monitoring (cem)
1-00001/-/001/00003	67	continuous emission monitoring (cem)

**Basis for Monitoring**

General Monitoring Requirements: Title V facilities are required to submit semiannual reports and annual compliance certifications, which the Department uses to determine if the facility has complied with the requirements of their permit. Title V facilities are also required to submit an annual emission statement which quantifies the actual amount of emissions that the facility emitted for the previous year.

**6 NYCRR Part 201-6**

Facility Limitations: The facility is required to install continuous emissions monitors (CEMs) for ammonia, carbon monoxide, and oxides of nitrogen on each gas turbine. The gas turbines are each required to meet the following limitations -

- NOx 2.5 ppmvd (corrected to 15% O2)\* and 5.0 lbs/hr \*\*
- CO 0.013 lb/mmBtu
- NH3 10.0 ppmvd (corrected to 15% O2)

\* The 2.5 ppmvd limit shall be applicable during periods of steady state operation where a gas turbine operates 16 or more minutes consecutively in one clock hour. When a gas turbine operates in steady state less than 16 minutes (consecutively in one clock hour, and excluding startup or shutdown) a mass emission limit of 2.5 pounds applies.

\*\* The 5.0 pounds per hour NOx limit shall apply during steady state operations where the turbine operates for the full 60 minutes of the hour. The following limits

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shall apply during steady state partial hours (less than the full 60 minutes) of operation of the gas turbines:

Time Period (minutes)	NOx Mass Limit (pounds)
1 - 15	2.5
16 - 30	3.0
31 - 45	3.75
46 - 59	5.0

These limitations apply during steady state operation of the gas turbines, which is defined as 60 percent load or greater. The facility is required to operate at or above 60 percent load except during periods of start-up or shutdown.

6 NYCRR Part 201-7: This permit condition limits the facility wide NOx emissions to 22.5 tons per year to avoid applicability of non-attainment new source review (NSR) NYCRR Part 231-2 (therefore, not a major facility of NOx and not subject to 6 NYCRR Part 227-2). The facility is required to calculate NOx emissions from each source and report compliance quarterly. The facility added one 1474 bhp black start emergency diesel generator (emission source 00011) to Emission Unit 00001 with permit renewal 2, but still limited facility wide emissions below any major size thresholds and Part 231-2 NSR applicability.

The emergency generators, emission sources, 0001 and 00011 are subject to 40 CFR 63 ZZZZ requirements. The Engine 00011 is also subject to 40 CFR 60 IIII requirements. NYSDEC has not taken delegation of these rules and all the compliance documentation is sent directly to EPA.

The following limitations apply to the other sources at the facility to ensure continued compliance with the NOx cap:

The heatec boilers are limited to 30 ppm of NOx (0.0364 #/mmbtu), and the engine 00010 is limited to 10.23 pounds per hour of NOx. These units are required to perform stack test once every five years to verify the NOx emission limits. The fire pump and emergency engines are limited to 500 hours per year of operation.

Start-up and Shutdown Limitations for turbines: The facility has specific limitations during periods of start-up and shutdown. During start-up the control equipment must be both "warmed" and "cycled" up to peak performance. Until the proper amount of exhaust flow has been achieved the control equipment is not operating at maximum efficiency. During shutdown the control equipment must be turned off prior to the gas turbine. The gas turbine can't be switched off immediately, it must be "cycled"

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down. During this "cycle down" period the amount of exhaust flow decreases to the point where the control equipment must be shutdown. However, the gas turbine must still fire a minimal amount of fuel for a brief period of time. Therefore, start-up is limited to a maximum of 30 minutes in duration, while shutdown is limited to a maximum of 20 minutes in duration. The facility is required to report quarterly the time of duration for each start-up and shutdown and the amount of NO<sub>x</sub>, CO and ammonia emitted during these periods. The facility is required to meet the following emission limitations during periods of start-up or shutdown:

NO<sub>x</sub> 15 pounds start-up, 5.0 lbs/hr shutdown

CO 8.0 pounds start-up and shutdown

NH<sub>3</sub> 7.4 pounds start-up and shutdown

Excess Emissions Requirements: The facility is required to submit to the Department, quarterly reports of excess emissions of any pollutant. These reports include the duration of the exceedance, the amount of the exceedance, and the explanation for the exceedance.

6 NYCRR Part 227-3: The two simple cycle turbines are subject to the requirements of 6 NYCRR Part 227-3, which requires to meet NO<sub>x</sub> limits 100 ppmvd by May 1, 2023 and 25 ppmvd by May 1, 2025. The facility is already meeting more stringent limit 2.5 ppmvd limit under 201-6 condition.

6 NYCRR Part 242- The two simple cycle turbines are subject to this regulation. This regulation establishes the NYS Budget Trading Program and is designed to stabilize and then reduce man made emissions of CO<sub>2</sub>, a greenhouse gas, from CO<sub>2</sub> budget sources, by creating and allocating CO<sub>2</sub> allowances. The permit conditions require the facility to hold CO<sub>2</sub> allowances and comply with monitoring and reporting requirements.

6 NYCRR Part 251.3 (b) is applicable to this facility as a of fossil fuel-fired existing major electric generating facilities that provide more than 10 percent of their annual electric output to the electric grid and that are not subject to section 251.3(a) of this Part. On or after December 31, 2020, owners or operators of non-modified existing sources is not allowed to fire any single fossil fuel, alone or in combination with any other fuel with an emission rate greater than or equal to 180 pounds of CO<sub>2</sub> per million Btu of input (input-based limit). These emission limits are measured on an annual basis, calculated by dividing the annual total of CO<sub>2</sub> emissions for the calendar year by the annual total Btus (input-based limit) fired over the same calendar year for each fossil fuel fired.

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40 CFR 60 GG: The two turbines are subject to the requirements this subpart. The NO<sub>x</sub> limit required 75ppm (15% O<sub>2</sub>) is less stringent than the limit required by 201-6 condition, 2.5ppmvd. Therefore, Subpart GG NO<sub>x</sub> limit is not added to this permit. 40 CFR 60.334(a) condition requires the facility to have continuous emission monitoring systems to measure and record fuel consumption and water fuel ratio in the combustion turbines. Also, the facility is required to follow the approved custom fuel monitoring schedule without submitting a special petition to the Administrator.

Recordkeeping Requirements: All Title V facilities are required to maintain copies of their records on-site for a minimum period of five years. This is an unmanned facility remotely operated from their applicant's Poletti Station. Therefore, applicant shall be required to keep all records at the Poletti Station.

40 CFR 64 : The facility has a federally enforceable cap for oxides of nitrogen which also limits VOC emissions below the major source threshold. These requirements qualify the facility for an exception from the CAM regulation under 40 CFR 64 for VOC emissions.

6 NYCRR Part 201-6.5(a): NYPA submitted Climate Leadership and Community Protection Act (CLCPA) analysis for its Harlem River Yards plant pursuant to the requirements of sections CLCPA 7(2) and 7(3). The analysis includes calculations showing the facility's potential to emit each Greenhouse Gas (GHG), its carbon dioxide equivalent emissions, and associated upstream out-of-state GHG emissions. It also includes a discussion of NYPA's future clean energy goals to decarbonize its fossil fuel plants. The analysis also addresses section 7(3) by providing the facility's potential to emit hazardous air pollutants and co-pollutants calculations, and the mitigation strategies used for emission sources to reduce its impacts on local communities and disadvantaged communities.