



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

Permit ID: 2-6403-00014/00031

Renewal Number: 1

Modification Number: 3 03/21/2012

Facility Identification Data

Name: ARTHUR KILL GENERATING STATION

Address: 4401 VICTORY BLVD

STATEN ISLAND, NY 10314

Owner/Firm

Name: ARTHUR KILL POWER LLC

Address: 4401 VICTORY BLVD

STATEN ISLAND, NY 10314, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

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Air Permitting Contact:

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Address: NRG ARTHUR KILL GENERATION INC

4401 VICTORY BLVD

STATEN ISLAND, NY 10314

Phone:7183902734

Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

This is a DIM (Department Initiated Modification) to incorporate regulations and conditions for BART (Best Available Retrofit Technology).



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Attainment Status

ARTHUR KILL GENERATING STATION is located in the town of STATEN ISLAND in the county of RICHMOND.

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:

This facility produces electricity. It operates two very large boilers rated at 3717 MMBtu/hr and 5502 MMBtu/hr and one medium size boiler rated at 65 MMBtu/hr. The very large boilers combust residual fuel and natural gas and the medium size boiler combusts natural gas only. The facility also has one combustion turbine rated at 235 MMBtu/hr. The turbine can combust distillate fuel or natural gas. There are two lube oil vapor extractors. Emergency coal burning capabilities exist at this facility. There are two lube oil vapor extractors. Emergency coal burning capabilities exist at the facility.

Permit Structure and Description of Operations

The Title V permit for ARTHUR KILL GENERATING STATION 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



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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.

ARTHUR KILL GENERATING STATION is defined by the following emission unit(s):

Emission unit AK0001 - Very large boilers 20 and 30. Boiler 20 is face fired and Boiler 30 is tangentially fired.

Process: NG2 is located at Floor 1, Building BOILERHS - This process includes one tangentially fired boiler (Boiler 30). This boiler is rated at 5502 MMBtu/hr. This process covers the combustion of natural gas in this boiler.

Emission unit AK0003 - One house boiler rated at 65 MMBtu/hr. This boiler combusts natural gas and is equipped with a flue gas recirculation system.

Emission unit AK0003 is associated with the following emission points (EP):
00003

Process: NG3 is located at Floor 1, Building BOILERHS - This process includes one House Boiler rated at 65 MMBtu/hr. This process covers the combustion of natural gas in this boiler.

Emission unit AK0001 - Very large boilers 20 and 30. Boiler 20 is face fired and Boiler 30 is tangentially fired.

Emission unit AK0001 is associated with the following emission points (EP):
00002

Process: BC1 is located at Building BOILERHS - This process is for the chemical cleaning of the boiler tubes for Boiler 20. The boiler tubes will be cleaned using EDTA method and the nonhazardous solution subsequently incinerated in one of the boilers. This process is considered ordinary maintenance of the boiler and is a trivial activity under 6NYCRR 201-3.3(c)(45) - Maintenance and Construction activities. No reporting is required for this process. However, the facility will maintain records of boiler chemical cleaning activities.

Process: BC2 is located at Building BOILERHS - This process is for the chemical cleaning of the boiler tubes for Boiler 30. The boiler tubes will be cleaned using EDTA method and the nonhazardous solution subsequently incinerated in one of the boilers. This process is considered ordinary maintenance of the boiler and is a trivial activity under 6NYCRR 201-3.3(c)(45) - Maintenance and Construction activities. No reporting is required for this process. However, the facility will maintain records of boiler chemical cleaning activities.

Process: NG1 is located at Floor 1, Building BOILERHS - This process includes one face fired boiler (Boiler 20). This boiler is rated at 3717 MMBtu/hr. This process covers the combustion of natural gas in this boiler.



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boiler (Boiler 30). This boiler is rated at 5502 MMBtu/hr. This process covers the combustion of natural gas in this boiler.

Process: RO1 is located at Floor 1, Building BOILERHS - This process includes one face fired boiler (Boiler 20). This boiler is rated at 3717 MMBtu/hr. This process covers the combustion of residual oil in this boiler.

Process: RO2 is located at Floor 1, Building BOILERHS - This process includes one tangentially fired boiler (Boiler 30). This boiler is rated at 5502 MMBtu/hr. This process covers the combustion of residual oil in this boiler.

Emission unit AK0005 - One combustion turbine rated at 235 MMBtu/hr which can combust distillate or natural gas. The combustion turbine is equipped with a diesel starter engine.

Emission unit AK0005 is associated with the following emission points (EP):
GT001

Process: GTD is located at Ground, Building GTFAC - This process includes one combustion turbine rated at 235 MMBtu/hr. This process covers combustion of distillate fuel oil.

Process: GTN is located at Ground, Building GTFAC - This process includes one combustion turbine rated at 235 MMBtu/hr. This process covers combustion of natural gas.

Emission unit AK0013 - Emission unit consists of two emergency diesel-fired generators. They are added to accommodate placing a condition in the permit to address an archival particulate limit of 0.10 lbs/MMBtu on each unit, found in a previous version of the Part 227 regulation (5/1/72 - SIP approved 9/22/72). The generators are housed in the Turbine Room. Each generator is tested once per week for approximately one hour. The generators will be operated less than 500 hours per year.

Emission unit AK0013 is associated with the following emission points (EP):
EG001, EG002

Process: EMG is located at Building TURBINERM - This process includes firing distillate oil in the two emergency generators. Each generator is tested once per week for approximately one hour. The generators will be operated less than 500 hours per year.

Title V/Major Source Status

ARTHUR KILL GENERATING STATION is subject to Title V requirements. This determination is based on the following information:

This is a major facility as the annual emissions of NOx, CO, VOC, HAP, Particulates are above the threshold limits of a major facility.

Program Applicability

The following chart summarizes the applicability of ARTHUR KILL GENERATING STATION with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability



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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	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.



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RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis

of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code

Description

4911

ELECTRIC SERVICES

SCC Codes

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

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

SCC Code

Description

1-01-004-01

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Normal Firing

1-01-004-04

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Tangential Firing

1-01-006-01

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

ELECTRIC UTILITY BOILER - NATURAL GAS Boilers > 100 MBtu/Hr except Tangential

1-01-006-02

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

ELECTRIC UTILITY BOILER - NATURAL GAS Boilers < 100 MBtu/Hr except Tangential



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1-01-006-04	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Tangentially Fired Units
2-01-001-01	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
2-01-001-02	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Reciprocating
2-01-002-01	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine
3-01-009-99	CHEMICAL MANUFACTURING CHEMICAL MANUFACTURING - CLEANING CHEMICALS Other Not Classified

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
000106-99-0	1,3-BUTADIENE	> 0	but < 10 tpy
000075-07-0	ACETALDEHYDE	> 0	but < 10 tpy
000107-02-8	ACROLEIN	> 0	but < 10 tpy
007440-36-0	ANTIMONY	> 0	but < 10 tpy
007440-38-2	ARSENIC	> 0	but < 10 tpy
000071-43-2	BENZENE	> 0	but < 10 tpy
000095-47-6	BENZENE, 1,2-DIMETHYL	> 0	but < 10 tpy
007440-41-7	BERYLLIUM	> 0	but < 10 tpy
007440-43-9	CADMIUM	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 250 tpy	but < 75,000 tpy
007440-47-3	CHROMIUM	> 0	but < 10 tpy

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016065-83-1	CHROMIUM (III)	> 0 but < 10 tpy
007440-48-4	COBALT	> 0 but < 10 tpy
000100-41-4	ETHYLBENZENE	> 0 but < 10 tpy
016984-48-8	FLUORIDE	> 0 but < 2.5 tpy
000050-00-0	FORMALDEHYDE	> 0 but < 10 tpy
0NY100-00-0	HAP	>= 100 tpy but < 250 tpy
000110-54-3	HEXANE	>= 10 tpy
007647-01-0	HYDROGEN CHLORIDE	>= 10 tpy
007439-92-1	LEAD	> 0 but < 10 tpy
007439-96-5	MANGANESE	> 0 but < 10 tpy
007439-97-6	MERCURY	> 0 but < 10 tpy
000091-20-3	NAPHTHALENE	> 0 but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	>= 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250 tpy but < 75,000 tpy
0NY075-00-0	PARTICULATES	>= 250 tpy but < 75,000 tpy
007723-14-0	PHOSPHORUS (YELLOW)	> 0 but < 10 tpy
0NY075-00-5	PM-10	>= 250 tpy but < 75,000 tpy
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	> 0 but < 10 tpy
007782-49-2	SELENIUM	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 250 tpy but < 75,000 tpy
007664-93-9	SULFURIC ACID	>= 250 tpy but < 75,000 tpy
000108-88-3	TOLUENE	> 0 but < 10 tpy
0NY998-00-0	VOC	>= 100 tpy but < 250 tpy
001330-20-7	XYLENE, M, O & P MIXT.	> 0 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:

- (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.



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- 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 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.



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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.
- 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



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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 person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
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FACILITY	ECL 19-0301	53		Powers and Duties of the Department with respect to air pollution control Reporting and Recordkeeping Requirements.
A-K0003	40CFR 60-Dc.48c	37		ICI Boiler Area Source NESHAP - Compliance Date for Management Practices
FACILITY	40CFR 63- JJJJJJ.11196 (a)	3 -5		ICI Boiler Area Source NESHAP - Management Practices
FACILITY	40CFR 63- JJJJJJ.11201 (b)	3 -6, 3 -7		ICI Boiler Area Source NESHAP - Management Practices
FACILITY	40CFR 63- JJJJJJ.11205 (a)	3 -8		ICI Boiler Area Source NESHAP - Good Air Pollution Control Practices
FACILITY	40CFR 63- JJJJJJ.11225 (a)	3 -9		ICI Boiler Area Source NESHAP - Notifications
FACILITY	40CFR 68	21		Chemical accident prevention provisions
FACILITY	40CFR 72	32		Permits regulation
FACILITY	40CFR 82-F	22		Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1		Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10		Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	54, 2 -3		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	23, 33, 34		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, 3 -1		General conditions Fees
FACILITY	6NYCRR 201-6.5 (a) (8)	16		General conditions
FACILITY	6NYCRR 201-6.5 (c)	3		Permit conditions for Recordkeeping and Reporting of
FACILITY	6NYCRR 201-6.5 (c) (2)	4		Compliance Monitoring Permit conditions for Recordkeeping and Reporting of
FACILITY	6NYCRR 201-6.5 (c) (3) (ii)	5		Compliance Monitoring Permit conditions for Recordkeeping and



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FACILITY	6NYCRR 201-6.5 (d) (5)	17			Reporting of
FACILITY	6NYCRR 201-6.5 (e)	6			Compliance Monitoring
					Compliance schedules
FACILITY	6NYCRR 201-6.5 (f) (6)	18			Certification
FACILITY	6NYCRR 201-6.5 (g)	24			Off Permit Changes
FACILITY	6NYCRR 202-1.1	19, 2	-2		Permit shield
					Required emissions
					tests.
FACILITY	6NYCRR 202-1.2	3	-2		Notification.
FACILITY	6NYCRR 202-1.3	3	-3		Acceptable
					procedures.
FACILITY	6NYCRR 202-2.1	7			Emission Statements -
					Applicability
FACILITY	6NYCRR 202-2.5	8			Emission Statements -
					record keeping
					requirements.
A-K0005	6NYCRR 204-1.6	39			Standard Requirements
A-K0005	6NYCRR 204-2.1	40			Authorization and
					Responsibilities of
					the NOx Authorized
					Account
A-K0005	6NYCRR 204-4.1	41			Representative
					Compliance
A-K0005	6NYCRR 204-7.1	42			Certification Report
A-K0005	6NYCRR 204-8.2	43, 44			Submission of NOx
					Allowance Transfers
					Initial Certification
					and Recertification
					Procedures
A-K0005	6NYCRR 204-8.3	45			Out of Control
					Periods
A-K0005	6NYCRR 204-8.4	46			Notifications
A-K0005	6NYCRR 204-8.7	47			Additional
					Requirements to
					Provide Heat Input
					Data for Allocations
					Purposes
FACILITY	6NYCRR 207	25			Control Measures for
					an Air Pollution
					Episode
FACILITY	6NYCRR 211.1	3	-4		General Prohibitions
					- air pollution
					prohibited
FACILITY	6NYCRR 211.2	55, 2	-4, 3	-18	General Prohibitions
					- visible emissions
					limited.
FACILITY	6NYCRR 211.3	20			General Prohibitions
					- visible emissions
					limited
FACILITY	6NYCRR 215	9			Open Fires
FACILITY	6NYCRR 215.2	2	-1		Open Fires -
					Prohibitions
FACILITY	6NYCRR 225-1.2 (a) (2)	26, 27			Sulfur in Fuel
					Limitations Post
					12/31/87.
FACILITY	6NYCRR 225-1.7 (c)	28			Emission and fuel
					monitoring.
FACILITY	6NYCRR 225-1.8	29			Reports, sampling and
					analysis.
A-K0005/GT001	6NYCRR 227.2 (b) (1)	50			Particulate
					emissions.
A-K0013/EG001	6NYCRR 227.2 (b) (1)	51			Particulate
					emissions.

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A-K0013/EG002	6NYCRR 227.2 (b) (1)	52		Particulate emissions.
FACILITY	6NYCRR 227-1.3	30		Smoke Emission Limitations.
A-K0005	6NYCRR 227-1.3	48		Smoke Emission Limitations.
A-K0001	6NYCRR 227-2.4 (a) (1) (i)	3	-10	1994 NOx RACT presumptive limits.
A-K0001	6NYCRR 227-2.4 (a) (1) (ii)	3	-19	2010 NOx RACT presumptive limits.
A-K0003	6NYCRR 227-2.4 (c) (1) (i)	3	-17	1994 NOx RACT presumptive limit.
A-K0003/-/NG3/00040	6NYCRR 227-2.4 (c) (1) (i)	38		Control Requirements for midsized boilers firing gas and/or distillate oil which utilize approved technology.
A-K0003	6NYCRR 227-2.4 (c) (1) (ii)	3	-20	2010 NOx RACT presumptive limit.
FACILITY	6NYCRR 227-2.5 (b)	31		System-wide averaging option.
A-K0001	6NYCRR 227-2.6 (a) (1)	35		Testing, monitoring, and reporting requirements for very large boilers.
A-K0003	6NYCRR 227-2.6 (c)	36		Stack Test Requirements.
A-K0005	6NYCRR 227-2.6 (c)	49		Stack Test Requirements.
FACILITY	6NYCRR 242-1.5	1	-18, 1 -19, 1 -20	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 243-1.6 (a)	1	-1	Permit Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (b)	1	-2	Monitoring Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (c)	1	-3	NOx Ozone Season Emission Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (d)	1	-4	Excess Emission Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (e)	1	-5	Recordkeeping and reporting requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-2.1	1	-6	Authorization and responsibilities - CAIR Designated Representative Certificate of representation - CAIR Designated Representative
FACILITY	6NYCRR 243-2.4	1	-7	General Requirements - Monitoring and
FACILITY	6NYCRR 243-8.1	1	-8, 1 -9	



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FACILITY	6NYCRR 243-8.5(d)	1	-10	Reporting Quarterly reports re: recordkeeping and reporting - Monitoring and Reporting
FACILITY	6NYCRR 243-8.5(e)	1	-11	Compliance certification re: recordkeeping and reporting - Monitoring and Reporting
FACILITY	6NYCRR 244-1	1	-12	CAIR NOx Ozone Annual Trading Program General Provisions
FACILITY	6NYCRR 244-2	1	-13	CAIR Designated Representative for CAIR NOx Sources
FACILITY	6NYCRR 244-8	1	-14	Monitoring and Reporting CAIR NOx Allowances
FACILITY	6NYCRR 245-1	1	-15	CAIR SO2 Trading Program General Provisions
FACILITY	6NYCRR 245-2	1	-16	CAIR Designated Representative for CAIR SO2 Sources
FACILITY	6NYCRR 245-8	1	-17	Monitoring and Reporting for CAIR SO2 Trading Program
A-K0001	6NYCRR 249.3(a)	3	-11, 3 -12, 3 - 13, 3 -14	BART Emission Limitation Requirements for Sources
A-K0001	6NYCRR 249.3(d)	3	-15	Deadline for BART Controls and/or Emission Reduction Measures
A-K0001	6NYCRR 249.3(f)	3	-16	Each BART determination established by the Department will be submitted to the EPA for approval as a SIP revision.

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



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procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

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.



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6 NYCRR 201-6.5 (a) (8)

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

6 NYCRR 201-6.5 (c)

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

6 NYCRR 201-6.5 (c) (2)

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

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

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 201-6.5 (g)

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

6 NYCRR 202-1.1

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.



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6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR Part 215

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

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable 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, ARTHUR KILL GENERATING STATION has been determined to be subject to the following regulations:

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 63.11196 (a) (1)

This condition states the date which an existing affected must comply with the management practices



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40 CFR 63.11201 (b)

These conditions state the management practices that are required for new and existing affected sources

40 CFR 63.11205 (a)

This condition states that the owner or operator of an industrial, commercial, or institutional boiler must use good air pollution control practices

40 CFR 63.11225 (a)

This condition states what notifications must be submitted

40 CFR Part 72

In order to reduce acid rain the 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 SO₂ and NO_x (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 SO₂ 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 SO₂. The utilities are required to limit SO₂ 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 202-1.2

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

6 NYCRR 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may be also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 204-1.6

This condition requires the designated representative of the permittee to make submissions for the NO_x Budget Program. The Program is designed to mitigate the interstate transport of ground level ozone and



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nitrogen oxides, a ground level ozone precursor.

6 NYCRR 204-2.1

This condition states the submission requirements for the NOx Budget Trading Program. The Program is designed to mitigate the interstate transport of ground level ozone and nitrogen oxides, a ground level ozone precursor.

6 NYCRR 204-4.1

This condition covers the compliance certification report requirements for the NOx Budget Program.

6 NYCRR 204-7.1

This condition lists the requirements for transfer of allowances in the NOx Budget Program.

6 NYCRR 204-8.2

This condition covers the procedures for initially certifying and recertifying the monitoring systems of the unit meet the requirements of the NOx Budget Program

6 NYCRR 204-8.3

This condition states the requirements for data substitution during times when the monitoring systems to not meet applicable quality assurance requirements.

6 NYCRR 204-8.4

This condition lists the addresses where monitoring plans and their modifications, compliance certifications, recertifications, quarterly QA/QC reports and petitions for alternative monitoring shall be sent.

6 NYCRR 204-8.7

This condition is a requirement for monitoring and reporting if a particular monitoring scenario is utilized.

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 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

6 NYCRR 225-1.7 (c)

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

6 NYCRR 225-1.8

This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to submit reports to the commissioner 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



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compliance with the provisions of 6 NYCRR Part 225-1.

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

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

6 NYCRR 227-2.4 (a) (1) (i)

Existing NO_x RACT presumptive limits that will expire on 6/30/14.

6 NYCRR 227-2.4 (a) (1) (ii)

Future NO_x RACT presumptive limits effective 7/1/14.

6 NYCRR 227-2.4 (c) (1) (i)

Existing NO_x RACT presumptive limit that expires on 6/30/14.

6 NYCRR 227-2.4 (c) (1) (i)

This subparagraph regulates the emission rates for oxides of nitrogen from midsized boilers firing gas and/or distillate oil which utilize approved technology.

6 NYCRR 227-2.4 (c) (1) (ii)

Future NO_x RACT presumptive limit effective 7/1/14.

6 NYCRR 227-2.5 (b)

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

6 NYCRR 227-2.6 (a) (1)

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

6 NYCRR 227-2.6 (c)



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This condition is to comply with the requirement for the stack test for NO_x emissions once during the permit term.

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 243-1.6 (a)

This condition requires the facility to acknowledge that they are subject to this CAIR regulation and provide owner and contact information. It also requires them to update this information as it changes or provide supplemental information at the Departments request.

6 NYCRR 243-1.6 (b)

This condition obligates the owners and operators of the facility to comply with the monitoring and reporting requirements of the CAIR regulations.

6 NYCRR 243-1.6 (c)

This citation explains the general provisions of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program. This ozone season NO_x cap and trade program runs from May 1 through September 30 each year, starting in 2009. Each source shall hold a tonnage equivalent in CAIR NO_x Ozone Season allowances that is not less than the total tons of NO_x emissions for the ozone season.

6 NYCRR 243-1.6 (d)

This citation for the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains some of the penalties that can be imposed on a CAIR NO_x Ozone Season source that does not surrender enough CAIR NO_x Ozone Season allowances to cover their NO_x Ozone Season emissions.

6 NYCRR 243-1.6 (e)

This citation for the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program requires that all reports be submitted as required by this program, and that copies of all records and submissions made for this program be kept on site for at least five years.

6 NYCRR 243-2.1

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains that an CAIR NO_x Ozone Season designated representative must be selected to submit, sign and certify each submission on behalf of the source for the this program.

6 NYCRR 243-2.4

This condition describes the required elements of the "Certificate of Representation" for the CAIR program and the certifying language required with submissions to the Department.

6 NYCRR 243-8.1

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains that CAIR NO_x Ozone Season Trading Program sources must install, certify and operate monitoring systems the meet the monitoring, recordkeeping, and reporting requirements in Subpart 6 NYCRR 243-8 and in Subpart H of 40 CFR Part 75.

6 NYCRR 243-8.5 (d)

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains the what requirements the quarterly reports must meet.



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6 NYCRR 243-8.5 (e)

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains the compliance certification requirements the source must follow for each quarterly report.

6 NYCRR 249.3 (a)

The facility is required to demonstrate compliance with the emission limits and the monitoring requirements of EPA's new regulation for BART (Best Available Retrofit Technology).

6 NYCRR 249.3 (d)

6 NYCRR 249.3 (f)

6 NYCRR Part 207

This regulation requires the owner or operator to submit an episode action plan to the Department in accordance with the requirements of 6NYCRR Part 207. The plan must contain detailed steps which will be taken by the facility to reduce air contaminant emissions during each stage of an air pollution episode. Once approved, the facility shall take whatever actions are prescribed by the episode action plan when an air pollution episode is in effect.

6 NYCRR Subpart 244-1

This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) Nitrogen Oxide (NO_x) Annual Trading Program. The control period for this annual NO_x cap and trade program runs from January 1 to December 31 each year, starting in 2009. Each source shall hold a tonnage equivalent in CAIR NO_x allowances that is not less than the total tons of NO_x emissions for the control period.

6 NYCRR Subpart 244-2

Each Clean Air Interstate Rule (CAIR) NO_x source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR NO_x Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative or the alternate representative.

6 NYCRR Subpart 244-8

The owners, operators, and Clean Air Interstate Rule (CAIR) designated representative of a CAIR NO_x unit shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 244-8 and in 40 CFR Part 75, Subparts F and G. A certified NO_x emission monitoring system must be used to measure NO_x emissions. NO_x emission reports must be certified and submitted quarterly.

6 NYCRR Subpart 245-1

This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) sulfur dioxide (SO₂) Trading Program. The control period for this annual SO₂ cap and trade program runs from



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January 1 to December 31, starting in the year 2010. Each source shall hold a tonnage equivalent in CAIR SO2 allowances that is not less than the total tons of SO2 emissions for the control period.

6 NYCRR Subpart 245-2

Each Clean Air Interstate Rule (CAIR) SO2 source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR SO2 Trading Program shall be submitted, signed, and certified by the CAIR designated representative or the alternate representative.

6 NYCRR Subpart 245-8

The owners, operators, and Clean Air Interstate Rule (CAIR) designated representative of a CAIR SO2 unit shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. A certified SO2 emission monitoring system must be used to measure SO2 emissions. SO2 emission reports must be certified and submitted quarterly..

Compliance Certification

Summary of monitoring activities at ARTHUR KILL GENERATING STATION:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring

FACILITY	3-6	record keeping/maintenance procedures
FACILITY	3-7	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
A-K0005	41	record keeping/maintenance procedures
A-K0005	44	record keeping/maintenance procedures
A-K0005	46	record keeping/maintenance procedures
A-K0005	47	record keeping/maintenance procedures
FACILITY	26	work practice involving specific operations
FACILITY	27	work practice involving specific operations
FACILITY	28	record keeping/maintenance procedures
FACILITY	29	record keeping/maintenance procedures
A-K0005/GT001	50	intermittent emission testing
A-K0013/EG001	51	intermittent emission testing
A-K0013/EG002	52	intermittent emission testing
FACILITY	30	record keeping/maintenance procedures
A-K0005	48	record keeping/maintenance procedures
A-K0001	3-10	continuous emission monitoring (cem)
A-K0001	3-19	continuous emission monitoring (cem)
A-K0003	3-17	intermittent emission testing
A-K0003	3-20	intermittent emission testing
FACILITY	31	record keeping/maintenance procedures
A-K0003	36	record keeping/maintenance procedures
A-K0005	49	record keeping/maintenance procedures
FACILITY	1-19	record keeping/maintenance procedures
FACILITY	1-20	record keeping/maintenance procedures
FACILITY	1-14	record keeping/maintenance procedures
FACILITY	1-17	record keeping/maintenance procedures
A-K0001	3-11	record keeping/maintenance procedures
A-K0001	3-12	record keeping/maintenance procedures
A-K0001	3-13	continuous emission monitoring (cem)
A-K0001	3-14	record keeping/maintenance procedures
A-K0001	3-15	record keeping/maintenance procedures



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6403-00014/00031

Renewal Number: 1

Modification Number: 3 03/21/2012

A-K0001

3-16

record keeping/maintenance procedures

Basis for Monitoring

Condition under 6 NYCRR Part 201-6.5(c)(3)(ii): This is a facility-wide condition that applies to monitoring conditions in all Title V Permits. All facilities that are subject to the Title V requirements must submit reports of any required monitoring to the NYSDEC every six months.

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

Condition under 6 NYCRR Part 202-2.1: This facility level monitoring condition is a requirement for all Title V facilities. These facilities must submit an annual emission statement by April 15th of each year.

Conditions under 6 NYCRR 204-4.1; 6 NYCRR 204-8.2; 6NYCRR 204-8.4; and 6 NYCRR 204-8.7 are the requirements for the Title V facilities under NOx Budget Trading Program under 6 NYCRR 204. This facility is a mandatory participant in the NOx budget program and is required to retain and submit reports on quarterly basis to USEPA and NYSDEC.

Conditions under 6 NYCRR Part 225-1.2(a)(2)); 6NYCRR 225-1.7(c); 6NYCRR 225-1.8 : These conditions are to monitor the fuel oil and its sulfur content used at the facility. The sulfur content must be certified by the seller. The facility must maintain a log of the sulfur content of oil on a per delivery basis.

Conditions under 6 NYCRR 227.2(b)(1): These conditions are for monitoring, testing and reporting requirement for particulate emissions from the emergency diesel generators.

Conditions under 6 NYCRR 227-1.3: These conditions are for monitoring and reporting for opacity limit.

Conditions under 6 NYCRR 227-2.5(b); and 6NYCRR 227-2.6(c): These conditions are for the monitoring of NOx emissions for system wide averaging and stack tests.

Conditions under 6 NYCRR 249: These conditions are to incorporate new EPA regulations and conditions for BART (Best Available retrofit Technology).

Conditions under 40 CFR 63: These conditions are to incorporate new EPA regulations and conditions for NESHAP Subpart JJJJJ for ol-fired equipment.