

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6308-00096/00009 Modification Number: 1



02/09/2004

Facility Identification Data

Name: KIAC COGENERATION PLANT-JFK AIRPORT
Address: BUILDING 49 JFK AIRPORT
JAMAICA, NY 11430

Owner/Firm

Name: KIAC PARTNERS
Address: JFK AIRPORT
BLDG 49
JAMAICA, NY 11430, USA
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:
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Division of Air Resources:
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Air Permitting Contact:
Name: MIKE URIO
Address: KIAC COGENERATION PLANT
JFK INTERNATIONAL AIRPORT BLDG 49
JAMAICA, NY 11430

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

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This is a minor Title V modification for KIAC Cogeneration Plant - JFK Airport. The minor modification involves:

1. Modifying the reporting frequency from annually (anniversary) to annually (calendar) for Conditions # 77, 78, 82, 83, 85, 91, 98, 100, 101, 103, 104, 112, 118, 123, 124, 126 & 127.
2. Modifying the reporting frequency from quarterly (anniversary) to quarterly (calendar) for Conditions # 45, 76, 79, 90, 93, 108, 109, 117, 120, 139, 144, 152, 157.
3. Modifying the due date of the quarterly (calendar) report for Conditions # 134 & 147 from 11/29/2002, 2/29/2003, 5/29/2003, 8/29/2003 and so on to 10/30/2002, 1/30/2003, 4/30/2003, 7/30/2003 and so on so that it coincides with the due date of the quarterly (calendar) report for Conditions # 73, 99, 128 & 162.
4. All the conditions that have reporting requirements of "Upon request by Regulatory Agency" are to be modified to "Semi-annally (Calendar)". These include Conditions # 40, 43, 49, 63, 66, 67, 72, 74, 75, 86, 87, 88, 89,102, 105, 106, 107, 113, 114, 115, 116, 125, 129, 130, 135, 138, 140, 141, 143, 145, 148, 151, 153, 154, 156, 158 & 162.

Attainment Status

KIAC COGENERATION PLANT-JFK AIRPORT is located in the town of QUEENS in the county of QUEENS.

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

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Facility Description

KIAC Cogeneration Plant at JFK Airport is an existing cogeneration plant which consists of two identical General Electric LM 6000 Combustion Turbine/HRSG units equipped with supplementary firing duct burners and heat recovery steam generators (HRSGs). The combustion turbines are permitted to fire both natural gas and light distillate fuel oil. The duct burners are limited to only natural gas firing. The gross heat capacity of the cogeneration plant is 460 MM BTU/hr for each combustion turbine and 249 MM BTU/hr for the combined duct burner operation (both units). Each combustion turbine is equipped with a supplemental heat recovery steam generator (HRSG). The cogeneration units are individually vented through two exhaust stacks, which vent emissions from each gas turbine and associated duct burner unit. Each of the GE LM 6000 combustion turbines are designed with water injection as the first level of NOx control and selective catalytic reduction (SCR) as the secondary NOx control system, for both residual combustion turbine NOx and duct burner NOx reduction. The SCR catalyst has the dual function of CO oxidation to CO2 and NOx reduction to N2 and H2O.

In addition, the facility has recently constructed (4/1/2002) a new simple cycle combustion turbine (GE LM 6000) that fires only natural gas. This new combustion turbine has heat capacity of 420 MM Btu/hr. The new unit is owned by CPN 3rd Turbine, which is an affiliate of Calpine Corporation. KIAC Partners is also an affiliate of Calpine Corporation. The addition of this new unit is below applicable PSD thresholds.

Recently, the facility has modified the Title V permit, DEC ID # 2-6308-00096/00009 (Mod 2) and was issued on 1/21/2004, to cover the upgrades of the two combustion turbines (LM 6000 PA to LM 6000 PC Sprint). The modification meets the minor permit modification criteria in 6 NYCRR 201-6.7(c).

The plant supplies electricity to the JFK Airport and Con Edison power distribution grid and supplies steam to the airport's central heating and refrigeration plant. The plant is located in the middle of the central terminal area of the JFK International Airport.

Permit Structure and Description of Operations

The Title V permit for KIAC COGENERATION PLANT-JFK AIRPORT 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

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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.

KIAC COGENERATION PLANT-JFK AIRPORT is defined by the following emission unit(s):
Emission unit 1OGTDB - TWO (2) GE LM 6000 COMBUSTION TURBINES/HRSG UNITS EACH EQUIPPED WITH A SUPPLEMENTAL FIRING COEN DUCT BURNER. THE COMBUSTION TURBINES FIRE NATURAL GAS AS A PRIMARY FUEL AND LIGHT DISTILLATE OIL AS A SECONDARY BACKUP FUEL. THE DUCT BURNERS ARE LIMITED TO NATURAL GAS FIRING. EACH COMBUSTION TURBINE/DUCT BURNER UNIT VENTS THROUGH A SEPARATE STACK, IDENTIFIED AS EMISSION POINTS (EP-00001 AND EP00002). BOTH EMISSION POINTS ARE LOCATED IN THE COGENB AREA.

Emission unit 1OGTDB is associated with the following emission points (EP):
00001, 00002

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

Process: GTA is located at Building COGENB - (1) GE LM6000 COMBUSTION TURBINE/HRSG UNIT WITH SUPPLEMENTAL FIRING OF DUCT BURNER. THE COMBUSTION TURBINE AND DUCT BURNER FIRING NATURAL GAS.

Process: GTB is located at Building COGENB - (1) GE LM6000 COMBUSTION TURBINE/HRSG UNIT WITH SUPPLEMENTAL FIRING OF DUCT BURNER. THE COMBUSTION TURBINE FIRING LIGHT DISTILLATE OIL WITH DUCT BURNER FIRING NATURAL GAS. LIGHT DISTILLATE OF FIRING IS LIMITED TO 4.8 MILLION GAL/YR PER COMBUSTION TURBINE.

Process: GTC is located at Building COGENB - (1) GE LM6000 COMBUSTION TURBINE/HRSG UNIT WITH NO SUPPLEMENTAL FIRING OF DUCT BURNER. THE COMBUSTION TURBINE FIRING NATURAL GAS.

Process: GTD is located at Building COGENB - (1) GE LM6000 COMBUSTION TURBINE/HRSG UNIT WITH NO SUPPLEMENTAL FIRING OF DUCT BURNER. COMBUSTION TURBINE FIRING LIGHT DISTILLATE OIL. LIGHT DISTILLATE OIL FIRING IS LIMITED TO 4.8 MILLION GAL/YR PER COMBUSTION TURBINE.

Title V/Major Source Status

KIAC COGENERATION PLANT-JFK AIRPORT is subject to Title V requirements. This determination is based on the following information:

KIAC Cogeneration Plant-JFK Airport is a major facility because the potential emissions of nitrogen oxides is greater than the major source thresholds, which is 25 tons per year for nitrogen oxides

Program Applicability

The following chart summarizes the applicability of KIAC COGENERATION PLANT-JFK AIRPORT with regards to the principal air pollution regulatory programs:

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

NOTES:

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

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

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

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

NSPS New Source Performance Standards (40 CFR 60) - standards of performance for



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specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

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

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

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

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

Compliance Status

Facility is in compliance with all requirements

SIC Codes

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

SIC Code	Description
4931	ELEC & OTHER SERVICES COMBINED

SCC Codes

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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
2-02-002-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine: Cogeneration

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount 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 (HAP)	0.122	
000075-07-0	ACETALDEHYDE (HAP)	2.388	
000107-02-8	ACROLEIN (HAP)	0.288	
007664-41-7	AMMONIA	127729	
007440-38-2	ARSENIC (HAP)	6.2	
000071-43-2	BENZENE (HAP)	2.906	
007440-43-9	CADMIUM (HAP)	5	
000630-08-0	CARBON MONOXIDE	106270	
007440-47-3	CHROMIUM (HAP)	58	
0NY064-29-0	COPPER (CU 064)	1601	
000050-00-0	FORMALDEHYDE (HAP)	21120	
0NY100-00-0	HAP		> 0 but < 2.5 tpy
007439-92-1	LEAD (HAP)	71.4	

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007439-96-5	MANGANESE (HAP)	418.9
007439-97-6	MERCURY (HAP)	1.1
0NY059-28-0	NICKEL (NI 059) (HAP)	1478.4
0NY210-00-0	OXIDES OF NITROGEN	360329
0NY075-00-0	PARTICULATES	143789
0NY075-00-5	PM-10	143789
000075-56-9	PROPANE, 1,2-EPOXY- (HAP)	8.034
007782-49-2	SELENIUM (HAP)	6.4
007446-09-5	SULFUR DIOXIDE	244332
000108-88-3	TOLUENE (HAP)	1.274
007440-62-2	VANADIUM	5.3
0NY998-00-0	VOC	50212
001330-20-7	XYLENE, M, O & P MIXT. (HAP)	0.888

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Sealing - 6NYCRR Part 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6NYCRR Part 200.7

Any person who owns or operates an air contamination source which is

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equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

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

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

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

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator

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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 F: Recycling and Salvage - 6NYCRR Part 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

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

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

Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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.

Item J: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must

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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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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.

Item K: 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 L: 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 M: 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 N: 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 O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing,

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or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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

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

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

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

Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

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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 U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

Item W: 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

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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 X: 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

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permit must be revised or reopened to assure compliance with applicable requirements.

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

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

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

Item Y: Required Emission Tests - 6 NYCRR Part 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Item AA: Open Fires - 6 NYCRR Part 215

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Item BB: 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,

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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 CC: 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.

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Applicability Discussion:

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

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ECL 19-301.

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.

6NYCRR Part 201-1.4

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

6NYCRR Part 201-6

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

6NYCRR Part 201-6.5(c)

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

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

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

6NYCRR Part 201-6.5(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.

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6NYCRR Part 201-6.5(g)

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

6NYCRR Part 202-2.1

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

6NYCRR Part 202-2.5

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

6NYCRR Part 211-.2

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

40 CFR Part 68.

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

Facility Specific Requirements

In addition to Title V, KIAC COGENERATION PLANT-JFK AIRPORT has been determined to be subject to the following regulations:

40CFR 52-A.21 (j)

BACT determinations are made on a case-by-case basis and can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination will have to be entered into the special permit conditions, separately by the permit reviewer.

40CFR 60-A.11

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40CFR 60-A.13

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

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40CFR 60-A.14

This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.

40CFR 60-A.15

This regulation defines the term reconstruction and what is and is not considered to be a reconstruction project, for the purpose of rule applicability.

40CFR 60-A.7

This regulation is for general provisions - notification and recordkeeping. This regulation specifies and identifies those facilities that are required to install CEMs devices to submit an excess emissions and monitoring systems performance report.

40CFR 60-A.7 (b)

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

40CFR 60-A.7 (c)

This requirement details the information to be submitted in excess emissions and monitoring systems performance reports which must be submitted at least semi-annually for sources with compliance monitoring systems.

40CFR 60-A.7 (d)

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

40CFR 60-A.7 (f)

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

40CFR 60-A.8

This regulation is for general provisions - performance tests. This regulation requires facilities to perform the required performance test within the specified time limits. The facility must perform the stack testing that is required to demonstrate compliance with 6 NYCRR 201-5.1(a)(3) according to the schedule in 40 CFR 60.8(a).

The facility performance testing must be conducted according to 40 CFR 60A.8. A performance test sampling protocol must be submitted to the NYSDEC Region 2 office 90 days prior to sampling for Department review and approval. The protocol must address sampling for contaminants as appropriate to evaluate cumulative facility emissions for compliance requirements.

40CFR 60-Db.45b

This regulation is for compliance and performance test methods and procedures for sulfur dioxide. This

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regulation requires the owner or operator of the facility to use the methods and procedures of this section 40 CFR 60-Db.45b and of Appendix A of this part 40 CFR 60 to determine compliance with the sulfur dioxide emission standard. This regulation specifies the performance test method and procedure for complying with the sulfur dioxide emission limit. The sulfur dioxide emission standard of section 40 CFR 60-Db.42b shall apply at all times.

40CFR 60-Db.46b

This regulation is for compliance and performance test methods and procedures for particulates and oxides of nitrogen. This regulation specifies the performance test method and procedure for complying with both the particulates and the oxides of nitrogen emission limit. The particulates emission standard of section 40 CFR 60-Db.43b shall apply at all times except during startup, shutdown and malfunction. The oxides of nitrogen emission standards in section 40 CFR 60-Db.44b shall apply at all times. Compliance with both the particulates and the oxides of nitrogen standards shall be determined using the methods specified in section 40 CFR 60-Db.46b.

40CFR 60-Db.47b

This regulation is for emission monitoring for sulfur dioxide. This regulation specifies the requirements and procedures for complying with the emissions of sulfur dioxide from industrial-commercial steam generating units. Facilities which combust very low sulfur oil are not subject to the requirements of section 40 CFR 60-Db.47b if fuel receipts are obtained in accordance with subdivision 40 CFR 60-Db.49b(r). The owner or operator of a facility, who elects to demonstrate that the affected facility combusts only very low sulfur oil, shall obtain and maintain at the facility, fuel receipts from the oil supplier, which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b. For the purposes of this requirements, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil.

40CFR 60-Db.48b

This regulation specifies the testing method for complying with the particulates emission limit and the nitrogen oxides emission limit.

40CFR 60-Db.49b

This rule specifies the reporting and recordkeeping requirements for affected steam generating units.

40CFR 60-GG.334

This regulation is for monitoring of operations for turbines. This regulation requires facilities to monitor fuel sulfur and nitrogen on a per delivery basis for distillate oil. Or the facilities can come up with an alternative schedule for natural gas monitoring that will need USEPA's approval.

A NO_x CEMS is used to demonstrate compliance with Subpart GG in accordance with a custom NSPS monitoring, recordkeeping and reporting plan pursuant to an alternative fuel schedule with USEPA. 40 CFR 60.13i.

40CFR 60-GG.334 (a)

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

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in the turbine

40CFR 60-GG.334 (b)

This regulation requires the owner/operator of the gas turbine to monitor (measure) the sulfur and nitrogen content of the fuel being fired in the turbine.

40CFR 60-GG.334 (b) (1)

This regulation requires the sulfur content of the fuel fired in the gas turbine to be tested each time the storage tank for the fuel is filled.

40CFR 60-GG.335

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

6NYCRR 200 .3

No person shall make a false statement in connection with applications, plans, specifications and/or reports submitted pursuant to this Subchapter.

6NYCRR 201-1.3

A Title V facility permit, state facility permit, general permit or registration certificate is valid only for the emission unit(s), owner and/or operator, facility, mode of operation and special conditions stated in the application, permit or registration. The owner and/or operator can transfer the permit or registration certificate to a new owner and/or operator if the mode of operation and emissions do not change. Permit transfers are subject to the procedures established under Part 621 of this Title.

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

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

6NYCRR 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.

6NYCRR 202-2

This subpart of Part 202 sets forth the general requirements for submitting an annual statement or emissions.

6NYCRR 212 .10

This regulation is for NO_x and VOC RACT required at major facilities. This regulation requires major facilities to install NO_x RACT, which has been determined to be low NO_x burners.

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The direct combustion unit for the control of NO_x must be functioning at all times the process is in operation.

6NYCRR 212.11

This section sets the requirements for sampling, monitoring, recordkeeping, and reporting from process sources.

6NYCRR 212.9 (b)

This section refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

6NYCRR 225.1 (a) (3)

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

6NYCRR 225-1.8

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

6NYCRR 225-1.8 (a)

Upon request the owner or operator of a facility which purchases and fires coal or oil shall submit reports to the commissioner containing a fuel analysis, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years

6NYCRR 225-1.8 (d)

This requires that sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the commissioner.

6NYCRR 227-1

This regulation applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This regulation specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

6NYCRR 227-1.3

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

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installation.

6NYCRR 227-1.3 (a)

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

6NYCRR 227-1.4 (a)

Subdivisions (a) and (f) of this section (227-1.4) have not been approved by EPA and have not been included in the NYS SIP.

6NYCRR 227-1.4 (c)

This is the applicability section for requiring the use of COMs for monitoring purposes.

6NYCRR 227-1.4 (d)

This section allows the owner or operator of a facility subject to this section to use alternative monitoring instead of a COM or CEMS. The owner or operator must show that these systems would not provide accurate readings of emissions; would be too expensive; or cannot be installed due to physical limitations of the stack.

6NYCRR 227-1.7

General emission data.

6NYCRR 227-2.1

This condition notes that a facility is subject to the reasonably available control technology (RACT) for oxides of nitrogen (NO_x).

6NYCRR 227-2.4 (e)

This regulation specifies the NO_x RACT requirements for combustion turbines with maximum heat input rates of 10 million Btu per hour or greater.

- (1) For simple cycle and regenerative combustion turbines, the emission limits are:
 - (i) 50 ppmvd, corrected to 15 percent, for units designed to burn gas only; and
 - (ii) 100 ppmvd, corrected to 15 percent oxygen, for units capable of firing multiple fuels.
- (2) For combined cycle combination turbines, the emission limits are:
 - (i) 42 ppmvd, corrected to 15 percent oxygen, when firing gas; and
 - (ii) 65 ppmvd, corrected to 15 percent oxygen, when firing oil.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing.

6NYCRR 227-2.6

This regulation establishes the compliance testing, monitoring, and reporting requirements for NO_x RACT affected stationary combustion installations.

6NYCRR 231-1.4

Lowest achievable emission rate (LAER).

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6NYCRR 231-1.6

Air quality impact evaluation.

Compliance Certification

Summary of monitoring activities at KIAC COGENERATION PLANT-JFK AIRPORT:

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Basis for Monitoring

This facility is subject to the requirements of Title V and has received a Title V general permit for Combustion Installation. The facility is required, under the provisions of 6 NYCRR Subpart 201-6, to submit quarterly, semiannual compliance reports and an annual Compliance Certification. This facility has to comply with the following monitoring conditions:

Condition 7 for 6 NYCRR 201-1.3: This is a facility-wide condition. This condition is for Recordkeeping/Maintenance Procedures. A Title V facility permit, state facility permit, general permit or registration certificate is valid only for the emission unit(s), owner and/or operator, facility, mode of operation and special conditions stated in the application, permit or registration. The owner and/or operator can transfer the permit or registration certificate to a new owner and/or operator if the mode of operation and emissions do not change. Permit transfers are subject to the procedures established under Part 621 of this Title.

Condition 2-3 for 6 NYCRR 201-6.5(c)(3)(ii): This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition 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.

Condition # 1-1 for 6 NYCRR 201-6.5(e): This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition specifies the overall permit requirements for compliance certification, including emission limitations, standards or work practices.

Condition 35 for 6 NYCRR 202-2: This is a facility-wide condition. This condition is for Recordkeeping/Maintenance Procedures. This subpart of Part 202 sets forth the general requirements for submitting an annual statement or emissions.

Condition 36 for 6 NYCRR 202-2.1: This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition sets forth the applicability criteria for submitting an annual statement of emissions. The criteria is based on annual emission threshold quantities and ozone attainment designation. This condition is a requirements for all Title V facilities. These facilities must submit an annual emission statement by April 15th of each year for emissions of the previous calendar year.

Condition 41 for 6 NYCRR 225-1.8: This is a facility-wide condition. This condition is for Recordkeeping/Maintenance Procedures. This condition 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 compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years.

Condition 1-2 for 6 NYCRR 225.1(a)(3): This is a facility-wide condition. This condition is for Work Practice Involving Specific Operations. This condition limits the amount of sulfur that can be in fuel

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burned at a stationary source. It references Table 1 of the 1979 version of the sulfur in fuel limitations expressed in terms of percent by weight for fuel oil and pounds per million Btu gross heat content for solid fuel. The sulfur limit is 0.20 percent by weight for distillates - number 1 and number 2 fuel oil for the New York City area. NOTE: This citation has been replaced by requirements cited under 225-1.2(a)(2) and is no longer part of current State regulations, however, it remains part of New York State's approved State Implementation Plan (SIP).

Condition 1-3 for 6 NYCRR 227-1: This is a facility-wide condition. This condition is for Recordkeeping/Maintenance Procedures for Particulates. EPA Reference Method 9 will be used to ensure compliance with opacity standards for stationary combustion installations. This condition requires any person who owns or operates a stationary combustion installation described in 6 NYCRR 227-1 to monitor the opacity to determine compliance with the 20% opacity limit using EPA Reference Method 9.

Condition 44 for 6 NYCRR 227-1.3(a): This is a facility-wide condition. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Opacity. This condition is a facility-wide monitoring condition for opacity. This condition prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20 % opacity (visible emissions) except, for one six-minute period per hour of not more than 27 % opacity, as stated in Reference Test Method 9 in Appendix A of 40 CFR 60.

Condition 1-4 for 6 NYCRR 227-1.4(c): This is a facility-wide condition. This condition is for Recordkeeping/Maintenance Procedures. This is the applicability section for requiring the use of COMs (Continuous Opacity Monitors) for monitoring purposes. The facility uses CEMS (Continuous Emission Monitoring System) on each of its stacks and determines heat content of fuel burned on a continuous basis, as described in 40 CFR 52-A.21(j) for CEMS requirements for smoke and carbon dioxide. The facility shall monitor continuously and determine daily:

1. The average hourly rate of each fuel burned.
2. The average hourly electrical output.
3. The minimum and maximum hourly generation rate.

At the request of the NYSDEC, the facility shall submit a written report of excess emissions for each calendar quarter and the nature and cause of the excessive emissions if known. The facility shall retain records and summaries for at least five years, and upon the request of NYSDEC shall furnish such records and summaries. For opacity measurements, the excess emissions report shall consist of all six-minute periods during which the average opacity of emissions equals or exceeds 20 percent, except that one six-minute average per hour of up to 30 percent need not be reported.

Condition 1-5 for 40 CFR 52.21(j), Subpart A: This is a facility-wide condition. This condition is for Work Practice Involving Specific Operations for Sulfur Dioxide. The facility is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A. The sulfur content of the light distillate fuel oil burned at the facility shall not exceed 0.173 percent by weight based on an annual rolling average. If less than the maximum amount (4.8 million gallons per year based on a daily rolling average) of light distillate fuel oil is fired, the annual rolling average may be adjusted by a method approved by the Department. However, the maximum sulfur content of the light distillate fuel oil shall not exceed 0.20 percent by weight as specified in Table 2 of 6 NYCRR Part 225-1.2(d).

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BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Condition 62 for 6 NYCRR 225-1.8(a): This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB. Upon request, the owner or operator of a facility which purchases and fires coal or oil shall submit reports to the commissioner containing a fuel analysis, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three (3) years.

Condition 1-6 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level condition for Monitoring of Process or Control Device Parameters as Surrogate for Particulates that applies to EU: 1-OGTDB. Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A. All emission limits are based on heat inputs corresponding to the higher heating value (HHV) of the fuel burned. The heating value of the distillate fuel oil fired shall not fall below 120,000 Btu's per gallon in order to comply with the 0.1 lb/MM Btu particulate limit standard at Emission Points 00001 & 00002.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Condition 1-7 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB. Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A. Established permit limits apply to all loads of malfunctions, shutdown, fuel switching and electrical feedline maintenance.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Condition 64 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB. Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A. The mass emission rate (lbs/hr) of NO_x and CO from the combustion turbine/duct burner stacks must be continuously calculated using the methodology contained in the CEM monitoring plan.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Condition 65 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level condition for

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Recordkeeping/Maintenance Procedures for Carbon Monoxide that applies to EU: 1-OGTDB. Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A. The mass emission rate (lbs/hr) of NO_x and CO from the combustion turbine/duct burner stacks must be continuously calculated using the methodology contained in the CEM monitoring plan.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Condition 1-8 for 40 CFR 60.7, NSPS, Subpart A: This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB. This condition is for general provisions - notification and recordkeeping. This condition specifies and identifies those facilities that are required to install CEMs devices to submit an excess emissions and monitoring systems performance report.

KIAC Cogeneration Plant at JFK Airport received approval from USEPA Region 2 in a letter dated 11/18/1994 to use Continuous Emission Monitoring (CEMS) in lieu of water-to-fuel monitoring in the gas turbine. Emission Unit 1-OGTDB is subject to the CEMS monitoring requirements under 40 CFR 60.7 and 60.13 and shall comply with the applicable requirements of these sections.

Condition 1-9 for 40 CFR 60.334, NSPS, Subpart GG: This condition is an emission unit level condition for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen that applies to EU: 1-OGTDB. This condition is for monitoring of operations for turbines. This condition requires facilities to monitor fuel sulfur and nitrogen on a per delivery basis for distillate oil. Or the facilities can come up with an alternative schedule for natural gas monitoring that will need USEPA's approval.

The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG that is using water injection to control NO_x emissions shall install and operate a continuous monitoring system to monitor and record fuel consumption and the ratio of water to fuel fired in the turbine. This system shall be accurate to within +/- 5.0 percent and shall be approved by NYSDEC. The water to fuel mass ratio cannot fall below 0.282 pounds of water per pound of fuel.

A NO_x CEMS is used to demonstrate compliance with Subpart GG in accordance with a custom NSPS monitoring, recordkeeping and reporting plan pursuant to an alternative fuel schedule with USEPA. 40 CFR 60.13i.

Condition 71 for 40 CFR 60.334, NSPS, Subpart GG: This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB. This condition is for monitoring of operations for turbines. This condition requires facilities to monitor fuel sulfur and nitrogen on a per delivery basis for distillate oil. Or the facilities can come up with an alternative schedule for natural gas monitoring that will need USEPA's approval.

KIAC Cogeneration Plant at JFK Airport has come up with an alternative fuel monitoring schedule for fuel sampling and analysis and has met USEPA's approval in a letter dated March 4, 1994. Specifically,

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analysis of composite fuel oil samples are required from the bulk oil storage tanks after each delivery of new oil into the tanks. For natural gas, fuel analysis must be performed on a monthly basis.

A NO_x CEMS is used to demonstrate compliance with Subpart GG in accordance with a custom NSPS monitoring, recordkeeping and reporting plan pursuant to an alternative fuel schedule with USEPA. 40 CFR 60.13i.

Condition 73 for 40 CFR 60.334, NSPS, Subpart GG: This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB. This condition is for monitoring of operations for turbines. This condition requires facilities to monitor fuel sulfur and nitrogen on a per delivery basis for distillate oil. Or the facilities can come up with an alternative schedule for natural gas monitoring that will need USEPA's approval.

KIAC Cogeneration Plant at JFK Airport has come up with an alternative fuel monitoring schedule for fuel sampling and analysis and has met USEPA's approval in a letter dated March 4, 1994. Specifically, analysis of composite fuel oil samples are required from the bulk oil storage tanks after each delivery of new oil into the tanks. For natural gas, fuel analysis must be performed on a monthly basis.

A NO_x CEMS is used to demonstrate compliance with Subpart GG in accordance with a custom NSPS monitoring, recordkeeping and reporting plan pursuant to an alternative fuel schedule with USEPA. 40 CFR 60.13i.

Condition 1-10 for 40 CFR 60.334(a), NSPS, Subpart GG: This condition is an emission unit level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB. This condition requires the owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60 Subpart GG that is using water injection to control NO_x emissions to install and operate a continuous monitoring system to monitor and record fuel consumption and the ratio of water to fuel fired in the turbine.

The type and amount of fuel burned in the combustion turbine and duct burner must be monitored and recorded within an accuracy of +/- 5%.

Condition 1-11 for 6 NYCRR 227-1.7: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and Proc: GTA. This condition is general emission data.

KIAC Cogeneration Plant at JFK Airport will keep records concerning usage, sampling composition and analysis of fuel, emissions, opacity and any pertinent data associated with all combustion installations and provide this data when requested by the NYSDEC. Sampling, compositing and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods acceptable to NYSDEC.

Condition 1-12 for 6 NYCRR 227-2.4(e): This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTA. This condition specifies the NO_x RACT requirements for combustion turbines with maximum heat input rates of 10 million Btu per hour or greater.

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- (1) For simple cycle and regenerative combustion turbines, the emission limits are:
 - (i) 50 ppmvd, corrected to 15 percent, for units designed to burn gas only; and
 - (ii) 100 ppmvd, corrected to 15 percent oxygen, for units capable of firing multiple fuels.
- (2) For combined cycle combination turbines, the emission limits are:
 - (i) 42 ppmvd, corrected to 15 percent oxygen, when firing gas; and
 - (ii) 65 ppmvd, corrected to 15 percent oxygen, when firing oil.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing. Compliance with these emission limits shall be determined with a one-hour average in accordance with 227-2.6(a)(5) or (6) of this Subpart. Units determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize CEMS under the provisions of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour averaging period.

Condition 1-13 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level and process level condition for Continuous Emission Monitoring (CEM) for Carbon Monoxide that applies to EU: 1-OGTDB and Proc: GTA. Process GTA in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Carbon Monoxide (CO) emissions from the combustion turbine/HRSG and duct burners units which cannot exceed 5.0 ppm by volume (dry, corrected to 15 % O₂). While firing natural gas in both the combustion turbine and duct burner units.

Condition 1-14 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level and process level condition for Continuous Emission Monitoring (CEM) for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTA. Process GTA in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Oxides of Nitrogen (NO_x) emissions from the combustion turbine/HRSG and duct burners units which cannot exceed 9.0 ppm by volume (dry, corrected to 15 % O₂). While firing natural gas in both the combustion turbine and duct burner units.

Condition 1-15 for 40 CFR 60.48b, NSPS Subpart Db: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTA. This condition specifies the testing method for complying with the particulates emission limit and the nitrogen oxides emission limit.

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The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Condition 1-16 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Work Practice Involving Specific Operations for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTA and ES: 000DB. Emission Unit 1-OGTDB, Proc: GTA and ES: 000DB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 mm Btu/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 mm Btu/hr limit.

Condition 1-17 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Work Practice Involving Specific Operations for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTA and ES: 000DB. Emission Unit 1-OGTDB, Proc: GTA and ES: 000DB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 mm Btu/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 mm Btu/hr limit.

Condition 84 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTA and ES: 000DB. Emission Unit 1-OGTDB, Proc: GTA and ES: 000DB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

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BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 mm Btu/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 mm Btu/hr limit.

Condition 1-18 for 6 NYCRR 227-2.6: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTA and ES: 000GT. This condition establishes the compliance testing, monitoring, and reporting requirements. for NOx RACT affected stationary combustion installations.

The owner/operator of combined cycle combination turbines with a maximum heat input rates greater than 250 million Btu per hour shall utilize CEMS as described in subdivision (b) of this section.

The owner/operator of a simple cycle, regenerative combustion turbines and combined cycle combustion turbines with a maximum heat input rates of 250 million Btu per hour or less shall perform stack tests as described in subdivision (c) of this section.

The owner/operator of a NOx source subject to section 227-2.4(g) of this Subpart shall submit a proposal, subject to approval by the department and EPA, for the testing, monitoring, and reporting of NOx emissions, and such standards shall be consistent with applicable requirements for sources regulated under this Subpart with comparable BTU ratings.

Condition 1-19 for 40 CFR 60.334(b), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTA and ES: 000GT. This condition requires the owner/operator of the gas turbine to monitor (measure) the sulfur and nitrogen content of the fuel being fired in the turbine.

In accordance with the September 22, 1997 letter from EPA for the approved custom fuel monitoring schedule for the gas turbines, the sulfur content of the natural gas used at the facility will be sampled once during the first quarter and once again during the third quarter of each calendar year. The sulfur limit in natural gas is 5.0 ppm (by volume). The natural gas that KIAC Cogeneration Partners uses in the gas turbines is supplied to the facility by pipeline through Brooklyn Union Gas (BUG).

The September 22, 1997 letter from EPA has revised the approved custom fuel monitoring schedule for the gas turbines for the sulfur content. The sampling frequency has been changed from twice per month (as per November 18, 1994 EPA letter) to semiannual basis (twice per year, once during the first quarter and once again during the third quarter of each calendar year).

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Should any fuel sulfur monitoring show a noncompliance with the 5.0 ppm (by volume) limit per 40 CFR 60.333, the owner or operator shall notify EPA and NYSDEC within fifteen (15) calendar days of the occurrence(s). Fuel sulfur content monitoring shall be conducted weekly during the interim period while the custom schedule is being reexamined by the EPA.

Records of sample analysis and fuel supply pertinent to this custom fuel monitoring schedule shall be retained for a period of three (3) years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

Condition 1-20 for 40 CFR 60.334(b)(1), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTA and ES: 000GT. This condition requires the owner/operator of the gas turbine to monitor (measure) the sulfur and nitrogen content of the fuel being fired in the turbine.

In accordance with the March 4, 1994; EPA approved custom fuel monitoring schedule, the nitrogen fuel monitoring requirement content for both natural gas & light distillate fuel oil has been eliminated.

Condition 1-21 for 6 NYCRR 227-1.7: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and Proc: GTB. This condition is general emission data.

KIAC Cogeneration Plant at JFK Airport will keep records concerning usage, sampling composition and analysis of fuel emissions, opacity and any pertinent data associated with all combustion installations and provide this data when required by the NYSDEC. Sampling, compositing and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods acceptable to NYSDEC.

Condition 1-22 for 6 NYCRR 227-2.4(e): This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTB.

This condition specifies the NO_x RACT requirements for combustion turbines with maximum heat input rates of 10 million Btu per hour or greater.

- (1) For simple cycle and regenerative combustion turbines, the emission limits are:
 - (i) 50 ppmvd, corrected to 15 percent, for units designed to burn gas only; and
 - (ii) 100 ppmvd, corrected to 15 percent oxygen, for units capable of firing multiple fuels.
- (2) For combined cycle combination turbines, the emission limits are:
 - (i) 42 ppmvd, corrected to 15 percent oxygen, when firing gas; and
 - (ii) 65 ppmvd, corrected to 15 percent oxygen, when firing oil.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing. Compliance with these emission limits shall be determined with a one hour average in accordance with 227-2.6(a)(5) or (6) of this Subpart. Units

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determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize CEMS under the provisions of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour averaging period.

Condition 1-23 for 40 CFR 60.48b Subpart Db: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTB. This condition specifies the testing method for complying with the particulates emission limit and the nitrogen oxides emission limit.

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Condition 1-24 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Work Practice Involving Specific Operations for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000DB. Emission Unit 1-OGTDB, Proc: GTB and ES: 000DB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 mm Btu/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 mm Btu/hr limit.

Condition 96 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Work Practice Involving Specific Operations for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000DB. Emission Unit 1-OGTDB, Proc: GTB and ES: 000DB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 mm Btu/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed

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rate to verify compliance with the 249 mm Btu/hr limit.

Condition 97 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000DB. Emission Unit 1-OGTDB, Proc: GTB and ES: 000DB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 mm Btu/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 mm Btu/hr limit .

Condition 99 for 40 CFR 60.47b, NSPS Subpart Db: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTB and ES: 000DB. This condition is for emission monitoring for sulfur dioxide. This condition specifies the requirements and procedures for complying with the emissions of sulfur dioxide from industrial-commercial steam generating units. Facilities which combust very low sulfur oil are not subject to the requirements of section 40 CFR 60-Db.47b if fuel receipts are obtained in accordance with subdivision 40 CFR 60-Db.49b(r). The owner or operator of a facility, who elects to demonstrate that the affected facility combusts only very low sulfur oil, shall obtain and maintain at the facility, fuel receipts from the oil supplier, which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b. For the purposes of this requirements, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Quarterly reports shall be submitted to the Administrator certifying that only very low sulfur oil was combusted in the affected facility during the preceding quarter.

Condition 1-25 for 6 NYCRR 227-2.6: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. This condition establishes the compliance testing, monitoring, and reporting requirements. for NOx RACT affected stationary combustion installations.

The owner/operator of combined cycle combination turbines with a maximum heat input rates greater than 250 million Btu per hour shall utilize CEMS as described in subdivision (b) of this section.

The owner/operator of a simple cycle, regenerative combustion turbines and combined cycle combustion turbines with a maximum heat input rates of 250 million Btu per hour or less shall perform stack tests as described in subdivision (c) of this section.

The owner/operator of a NOx source subject to section 227-2.4(g) of this Subpart shall submit a proposal, subject to approval by the department and EPA, for the testing, monitoring, and reporting of

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NOx emissions, and such standards shall be consistent with applicable requirements for sources regulated under this Subpart with comparable BTU ratings.

Condition 1-26 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Work Practice Involving Specific Operations for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. Emission Unit 1-OGTDB, Proc: GTB and ES: 000GT is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Each combustion turbine unit is limited to 4.8 million gallons of light distillate fuel oil use per year. This annual limit is based on a daily rolling average.

Condition 1-27 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Continuous Emission Monitoring (CEM) for Carbon Monoxide that applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. ES: 000GT with Process GTB in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Carbon Monoxide emissions from the combustion turbine/HRSG and duct burners units which cannot exceed 5.0 ppm by volume (dry, corrected to 15 % O₂). While firing light distillate fuel oil in the combustion turbine and natural gas in the duct burner unit.

Condition 1-28 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. Emission Unit 1-OGTDB, Proc: GTB and ES: 000GT is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The combustion turbines may not operate below 50 % load except during periods of start-up, shutdown, fuel switching, or malfunction (not to exceed 3 hrs/occurrence) and during periods of annual electrical; feed line maintenance (not to exceed 24 hrs/yr).

Condition 1-29 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Continuous Emission Monitoring (CEM) for Ammonia that

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applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. ES: 000GT with Process GTB in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Ammonia emissions from the combustion turbine/HRSG and duct burners units which cannot exceed 10.0 ppm by volume (dry, corrected to 15 % O₂). While firing light distillate fuel oil in the combustion turbine and natural gas in the duct burner unit.

Condition 1-30 for 40 CFR 60.334(b), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. This condition requires the owner/operator of the gas turbine to monitor (measure) the sulfur and nitrogen content of the fuel being fired in the turbine.

In accordance with the March 4, 1994 letter from EPA for the approved custom fuel monitoring schedule for the gas turbines, the sulfur content of the light distillate fuel used at the facility will be sampled once per 24-hr period during natural gas curtailment periods.

Sulfur content of the light distillate fuel oil burned at the facility shall not exceed 0.173 percent by weight based on an annual rolling average. If less than the maximum amount (4.8 million gallons per year based on a daily rolling average) of light distillate fuel oil is fired, the annual rolling average may be adjusted by a method approved by the Department. However, the maximum sulfur content of the light distillate fuel oil shall not exceed 0.20 percent by weight as specified in Table 2 of 6 NYCRR Part 225-1.2(d).

Condition 1-31 for 40 CFR 60.334(b)(1), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTB and ES: 000GT. This condition requires the sulfur content of the fuel fired in the gas turbine to be tested each time the storage tank for the fuel is filled.

In accordance with the March 4, 1994; EPA approved custom fuel monitoring schedule, the nitrogen fuel monitoring requirement content for both natural gas & light distillate fuel oil has been eliminated.

Condition 1-32 for 6 NYCRR 227-1.7: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and Proc: GTC. This condition is general emission data.

KIAC Cogeneration Plant at JFK Airport will keep records concerning usage, sampling composition and analysis of fuel emissions, opacity and any pertinent data associated with all combustion installations and provide this data when required by the NYSDEC. Sampling, compositing and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods acceptable to NYSDEC.

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Condition 1-33 for 6 NYCRR 227-2.4(e): This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTC.

This condition specifies the NO_x RACT requirements for combustion turbines with maximum heat input rates of 10 million Btu per hour or greater.

- (1) For simple cycle and regenerative combustion turbines, the emission limits are:
 - (i) 50 ppmvd, corrected to 15 percent, for units designed to burn gas only; and
 - (ii) 100 ppmvd, corrected to 15 percent oxygen, for units capable of firing multiple fuels.
- (2) For combined cycle combination turbines, the emission limits are:
 - (i) 42 ppmvd, corrected to 15 percent oxygen, when firing gas; and
 - (ii) 65 ppmvd, corrected to 15 percent oxygen, when firing oil.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing. Compliance with these emission limits shall be determined with a one hour average in accordance with 227-2.6(a)(5) or (6) of this Subpart. Units determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize CEMS under the provisions of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour averaging period.

Condition 1-34 for 40 CFR 60.48b, NSPS Subpart Db: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTC. This condition specifies the testing method for complying with the particulates emission limit and the nitrogen oxides emission limit.

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Condition 1-35 for 6 NYCRR 227-2.6: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTC and ES: 000GT. This condition establishes the compliance testing, monitoring, and reporting requirements. for NO_x RACT affected stationary combustion installations.

The owner/operator of combined cycle combination turbines with a maximum heat input rates greater than 250 million Btu per hour shall utilize CEMS as described in subdivision (b) of this section.

The owner/operator of a simple cycle, regenerative combustion turbines and combined cycle combustion



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turbines with a maximum heat input rates of 250 million Btu per hour or less shall perform stack tests as described in subdivision (c) of this section.

The owner/operator of a NO_x source subject to section 227-2.4(g) of this Subpart shall submit a proposal, subject to approval by the department and EPA, for the testing, monitoring, and reporting of NO_x emissions, and such standards shall be consistent with applicable requirements for sources regulated under this Subpart with comparable BTU ratings.

Condition 1-36 for 40 CFR 60.334(b), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTC and ES: 000GT. This condition requires the owner/operator of the gas turbine to monitor (measure) the sulfur and nitrogen content of the fuel being fired in the turbine.

In accordance with the September 22, 1997 letter from EPA for the approved custom fuel monitoring schedule for the gas turbines, the sulfur content of the natural gas used at the facility will be sampled once during the first quarter and once again during the third quarter of each calendar year. The sulfur limit in natural gas is 5.0 ppm (by volume). The natural gas that KIAC Cogeneration Partners uses in the gas turbines is supplied to the facility by pipeline through Brooklyn Union Gas (BUG).

The September 22, 1997 letter from EPA has revised the approved custom fuel monitoring schedule for the gas turbines for the sulfur content. The sampling frequency has been changed from twice per month (as per November 18, 1994 EPA letter) to semiannual basis (twice per year, once during the first quarter and once again during the third quarter of each calendar year).

Should any fuel sulfur monitoring show a noncompliance with the 5.0 ppm (by volume) limit per 40 CFR 60.333, the owner or operator shall notify EPA and NYSDEC within fifteen (15) calendar days of the occurrence(s). Fuel sulfur content monitoring shall be conducted weekly during the interim period while the custom schedule is being reexamined by the EPA.

Records of sample analysis and fuel supply pertinent to this custom fuel monitoring schedule shall be retained for a period of three (3) years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

Condition 1-37 for 40 CFR 60.334(b)(1), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTC and ES: 000GT. This condition requires the sulfur content of the fuel fired in the gas turbine to be tested each time the storage tank for the fuel is filled.

In accordance with the March 4, 1994; EPA approved custom fuel monitoring schedule. The nitrogen fuel monitoring requirement content for both natural gas & light distillate fuel oil has been eliminated.

Condition 1-38 for 6 NYCRR 227-1.7: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and Proc: GTD. This condition is general emission data.

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KIAC Cogeneration Plant at JFK Airport will keep records concerning usage, sampling composition and analysis of fuel emissions, opacity and any pertinent data associated with all combustion installations and provide this data when required by the NYSDEC. Sampling, compositing and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods acceptable to NYSDEC.

Condition 1-39 for 6 NYCRR 227-2.4(e): This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTD.

This condition specifies the NO_x RACT requirements for combustion turbines with maximum heat input rates of 10 million Btu per hour or greater.

- (1) For simple cycle and regenerative combustion turbines, the emission limits are:
 - (i) 50 ppmvd, corrected to 15 percent, for units designed to burn gas only; and
 - (ii) 100 ppmvd, corrected to 15 percent oxygen, for units capable of firing multiple fuels.
- (2) For combined cycle combination turbines, the emission limits are:
 - (i) 42 ppmvd, corrected to 15 percent oxygen, when firing gas; and
 - (ii) 65 ppmvd, corrected to 15 percent oxygen, when firing oil.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing. Compliance with these emission limits shall be determined with a one hour average in accordance with 227-2.6(a)(5) or (6) of this Subpart. Units determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize CEMS under the provisions of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour averaging period.

Condition 1-40 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level and process level condition for Continuous Emission Monitoring (CEM) for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTD. Process GTD in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Oxides of Nitrogen (NO_x) emissions from the combustion turbine/HRSG without the duct burner unit, which cannot exceed 18.0 ppm by volume (dry, corrected to 15 % O₂) while firing light distillate fuel in the combustion turbine.

Condition 1-41 for 40 CFR 60.48(b), NSPS Subpart Db: This condition is an emission unit level and process level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB and Proc: GTD. This condition specifies the testing method for complying with the particulates emission limit and the nitrogen oxides emission limit.

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel

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combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Condition 1-42 for 6 NYCRR 227-2.6: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. This condition establishes the compliance testing, monitoring, and reporting requirements for NOx RACT affected stationary combustion installations.

The owner/operator of combined cycle combustion turbines with a maximum heat input rates greater than 250 million Btu per hour shall utilize CEMS as described in subdivision (b) of this section.

The owner/operator of a simple cycle, regenerative combustion turbines and combined cycle combustion turbines with a maximum heat input rates of 250 million Btu per hour or less shall perform stack tests as described in subdivision (c) of this section.

The owner/operator of a NOx source subject to section 227-2.4(g) of this Subpart shall submit a proposal, subject to approval by the department and EPA, for the testing, monitoring, and reporting of NOx emissions, and such standards shall be consistent with applicable requirements for sources regulated under this Subpart with comparable BTU ratings.

Condition 1-43 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Work Practice Involving Specific Operations for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. Emission Unit 1-OGTDB, Proc: GTD and ES: 00GT is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

Each combustion turbine unit is limited to 4.8 million gallons of light distillate fuel oil use per year. This annual limit is based on a daily rolling average.

Condition 1-44 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Continuous Emission Monitoring (CEM) for Ammonia that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. ES: 000GT with Process GTD in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a

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BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Ammonia emissions from the combustion turbine/HRSG without the duct burner unit, which cannot exceed 10.0 ppm by volume (dry, corrected to 15 % O₂). While firing light distillate fuel oil in the combustion turbine with no duct burner.

Condition 1-45 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. ES: 000GT with Process GTD in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

The combustion turbines may not operate below 50% load except during periods of start-up, shutdown, fuel switching, or malfunction (not to exceed 3 hrs/occurrence) and during periods of annual electrical feed line maintenance (not to exceed 24 hrs/yr).

Condition 1-46 for 40 CFR 52.21(j), Subpart A: This condition is an emission unit level, process level and emission source level condition for Continuous Emission Monitoring (CEM) for Carbon Monoxide that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. ES: 000GT with Process GTD in Emission Unit 1-OGTDB is required to comply with BACT (Best Available Control Technology) - 40 CFR 52.21(j), Subpart A.

BACT determinations can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination are entered into the permit conditions.

CEMS are to be used to monitor Carbon Monoxide emissions from the combustion turbine/HRSG without the duct burner unit, which cannot exceed 5.0 ppm by volume (dry, corrected to 15 % O₂). While firing light distillate fuel oil in the combustion turbine with no duct burner.

Condition 128 for 40 CFR 60.47b, NSPS Subpart Db: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. This condition is for emission monitoring for sulfur dioxide. This condition specifies the requirements and procedures for complying with the emissions of sulfur dioxide from industrial-commercial steam generating units. Facilities which combust very low sulfur oil are not subject to the requirements of section 40 CFR 60-Db.47b if fuel receipts are obtained in accordance with subdivision 40 CFR 60-Db.49b(r). The owner or operator who elects to demonstrate that the affected facility combusts only very low sulfur oil shall obtain and maintain at the facility fuel receipts from the fuel supplier which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b. For the purposes of this requirements, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Quarterly reports shall be submitted to the Administrator certifying that only very low sulfur oil was combusted in the affected facility during the

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preceding quarter.

Condition 1-47 for 40 CFR 60.334(b), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. This condition requires the owner/operator of the gas turbine to monitor (measure) the sulfur and nitrogen content of the fuel being fired in the turbine.

In accordance with the March 4, 1994 letter from EPA for the approved custom fuel monitoring schedule for the gas turbines, the sulfur content of the light distillate fuel used at the facility will be sampled once per 24-hr period during natural gas curtailment periods.

Sulfur content of the light distillate fuel oil burned at the facility shall not exceed 0.173 percent by weight based on an annual rolling average. If less than the maximum amount (4.8 million gallons per year based on a daily rolling average) of light distillate fuel oil is fired, the annual rolling average may be adjusted by a method approved by the Department. However, the maximum sulfur content of the light distillate fuel oil shall not exceed 0.20 percent by weight as specified in Table 2 of 6 NYCRR Part 225-1.2(d).

Condition 1-48 for 40 CFR 60.334(b)(1), NSPS Subpart GG: This condition is an emission unit level, process level and emission source level condition for Recordkeeping/Maintenance Procedures for Oxides of Nitrogen that applies to EU: 1-OGTDB, Proc: GTD and ES: 000GT. This condition requires the sulfur content of the fuel fired in the gas turbine to be tested each time the storage tank for the fuel is filled.

In accordance with the March 4, 1994; EPA approved custom fuel monitoring schedule. The nitrogen fuel monitoring requirement content for both natural gas & light distillate fuel oil has been eliminated.

Condition 1-49 for 6 NYCRR 227-1.3: This condition is an emission unit level and emission point level condition for Continuous Emission Monitoring (CEM) for opacity (Continuous Opacity Monitoring System - COMS) that applies to EU: 1-OGTDB and EP: 00001. This condition requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard may be determined by EPA Reference Method 9, Continuous Opacity Monitoring System (COMS) data, and/or any other credible evidence. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

Condition 1-50 for 6 NYCRR 227-1.4(d): This condition is an emission unit level and emission point level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and EP: 00001.

This section allows the owner or operator of a facility subject to this section to use alternative monitoring instead of a COM or CEMS. The owner or operator must show that these systems would not provide accurate readings of emissions; would be too expensive; or cannot be installed due to physical limitations of the stack.

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For stack monitoring and recordkeeping requirements, the owner/operator of this facility shall record and maintain measurements and operations data as required by the commissioner.

Condition 136 for 40 CFR 60.8, NSPS Subpart A: This condition is an emission unit level and emission point level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and EP: 00001. This condition is for general provisions - performance tests. This condition requires facilities to perform the required performance test within the specified time limits. The facility must perform the stack testing that is required to demonstrate compliance with 6 NYCRR 201-5.1(a)(3) according to the schedule in 40 CFR 60.8(a).

The facility performance testing must be conducted according to 40 CFR 60A.8. A performance test sampling protocol must be submitted to the NYSDEC Region 2 office 90 days prior to sampling for Department review and approval. The protocol must address sampling for contaminants as appropriate to evaluate cumulative facility emissions for compliance requirements.

Condition 1-51 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Continuous Emission Monitoring (CEM) for Particulates that applies to EU: 1-OGTDB, EP: 00001 and Proc: GTB. This condition specifies the continuous emissions monitoring of opacity to determine compliance for stationary combustion installations, 6 NYCRR 227-1. This condition requires any person who owns or operates a stationary combustion installation described in 6 NYCRR 227-1 to continuously monitor the opacity to determine compliance with the 20% opacity limit.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-52 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00001 and Proc: GTB. This condition specifies the Particulate Matter emission limit to be 0.1 lb/MM Btu for stationary combustion installations, 6 NYCRR 227-1.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 137 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Work Practice Involving Specific Operations for Particulates that applies to EU: 1-OGTDB, EP: 00001 and Proc: GTB. This condition specifies the heat content of the distillate fuel oil in order to comply with the 0.1 lb/MM Btu Particulate limit standard at Emission Point 00001. The heating value of the distillate fuel oil fired shall not fall below 120,000 BTU'S per gallon.

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This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-53 for 6 NYCRR 212.9(b): This condition is an emission unit level, emission point level, process level and emission source condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00001 Proc: GTB and ES: 000DB. This condition refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

99% or greater air cleaning is required for particulate matter emissions emitting one pound per hour or greater, as defined by emission rate potential. Best Available Control Technology (BACT) can be substituted for 99 % control or greater. The particulate matter emission has a limit of 0.1 lb/MM Btu.

Condition 1-54 for 6 NYCRR 212.9(b): This condition is an emission unit level, emission point level, process level and emission source condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00001 Proc: GTB and ES: 000GT. This condition refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

99% or greater air cleaning is required for particulate matter emissions emitting one pound per hour or greater, as defined by emission rate potential. Best Available Control Technology (BACT) can be substituted for 99 % control or greater. The particulate matter emission has a limit of 0.1 lb/MM Btu.

Condition 1-55 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Continuous Emission Monitoring (CEM) for Particulates that applies to EU: 1-OGTDB, EP: 00001 and Proc: GTD. This condition specifies the continuous emissions monitoring of opacity to determine compliance for stationary combustion installations, 6 NYCRR 227-1. This condition requires any person who owns or operates a stationary combustion installation described in 6 NYCRR 227-1 to continuously monitor the opacity to determine compliance with the 20% opacity limit.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-56 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00001 and Proc: GTD. This condition specifies the Particulate Matter emission limit to be 0.1 lb/MM Btu for stationary combustion installations, 6 NYCRR 227-1.

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This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 142 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Work Practice Involving Specific Operations for Particulates that applies to EU: 1-OGTDB, EP: 00001 and Proc: GTD. This condition specifies the heat content of the distillate fuel oil in order to comply with the 0.1 lb/MM Btu Particulate limit standard at Emission Point 00001. The heating value of the distillate fuel oil fired shall not fall below 120,000 BTU'S per gallon.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-57 for 6 NYCRR 212.9(b): This condition is an emission unit level, emission point level, process level and emission source condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00001 Proc: GTD and ES: 000GT. This condition refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

99% or greater air cleaning is required for particulate matter emissions emitting one pound per hour or greater, as defined by emission rate potential. Best Available Control Technology (BACT) can be substituted for 99 % control or greater. The particulate matter emission has a limit of 0.1 lb/MM Btu.

Condition 1-58 for 6 NYCRR 227-1.3: This condition is an emission unit level and emission point level condition for Continuous Emission Monitoring (CEM) for opacity (Continuous Opacity Monitoring System - COMS) that applies to EU: 1-OGTDB and EP: 00002. This condition requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard may be determined by EPA Reference Method 9, Continuous Opacity Monitoring System (COMS) data, and/or any other credible evidence. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

Condition 1-59 for 6 NYCRR 227-1.4(d): This condition is an emission unit level and emission point level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and EP: 00002.

This section allows the owner or operator of a facility subject to this section to use alternative monitoring instead of a COM or CEMS. The owner or operator must show that these systems would not provide

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accurate readings of emissions; would be too expensive; or cannot be installed due to physical limitations of the stack.

For stack monitoring and recordkeeping requirements, the owner/operator of this facility shall record and maintain measurements and operations data as required by the commissioner.

Condition 149 for 40 CFR 60.8, NSPS Subpart A: This condition is an emission unit level and emission point level condition for Recordkeeping/Maintenance Procedures that applies to EU: 1-OGTDB and EP: 00002. This condition is for general provisions - performance tests. This condition requires facilities to perform the required performance test within the specified time limits. The facility must perform the stack testing that is required to demonstrate compliance with 6 NYCRR 201-5.1(a)(3) according to the schedule in 40 CFR 60.8(a).

The facility performance testing must be conducted according to 40 CFR 60A.8. A performance test sampling protocol must be submitted to the NYSDEC Region 2 office 90 days prior to sampling for Department review and approval. The protocol must address sampling for contaminants as appropriate to evaluate cumulative facility emissions for compliance requirements.

Condition 1-60 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Continuous Emission Monitoring (CEM) for Particulates that applies to EU: 1-OGTDB, EP: 00002 and Proc: GTB. This condition specifies the continuous emissions monitoring of opacity to determine compliance for stationary combustion installations, 6 NYCRR 227-1. This condition requires any person who owns or operates a stationary combustion installation described in 6 NYCRR 227-1 to continuously monitor the opacity to determine compliance with the 20% opacity limit.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-61 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00002 and Proc: GTB. This condition specifies the Particulate Matter emission limit to be 0.1 lb/MM Btu for stationary combustion installations, 6 NYCRR 227-1.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 150 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Work Practice Involving Specific Operations for Particulates that applies to EU: 1-OGTDB, EP: 00002 and Proc: GTB. This condition specifies the heat content of the distillate fuel oil in order to comply with the 0.1 lb/MM Btu Particulate limit standard at Emission Point 00001. The

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heating value of the distillate fuel oil fired shall not fall below 120,000 BTU'S per gallon.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-62 for 6 NYCRR 212.9(b): This condition is an emission unit level, emission point level, process level and emission source condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00002 Proc: GTB and ES: 000DB. This condition refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

99% or greater air cleaning is required for particulate matter emissions emitting one pound per hour or greater, as defined by emission rate potential. Best Available Control Technology (BACT) can be substituted for 99 % control or greater. The particulate matter emission has a limit of 0.1 lb/MM Btu.

Condition 1-63 for 6 NYCRR 212.9(b): This condition is an emission unit level, emission point level, process level and emission source condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00002 Proc: GTB and ES: 000GT. This condition refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

99% or greater air cleaning is required for particulate matter emissions emitting one pound per hour or greater, as defined by emission rate potential. Best Available Control Technology (BACT) can be substituted for 99 % control or greater. The particulate matter emission has a limit of 0.1 lb/MM Btu.

Condition 1-64 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00002 and Proc: GTD. This condition specifies the Particulate Matter emission limit to be 0.1 lb/MM Btu for stationary combustion installations, 6 NYCRR 227-1.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-65 for 6 NYCRR 227-1: This condition is an emission unit level, emission point level and process level condition for Continuous Emission Monitoring (CEM) for Particulates that applies to EU: 1-OGTDB, EP: 00002 and Proc: GTD. This condition specifies the continuous emissions monitoring of opacity to determine compliance for stationary combustion installations, 6 NYCRR 227-1. This condition requires any person who owns or operates a stationary combustion installation described in 6

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NYCRR 227-1 to continuously monitor the opacity to determine compliance with the 20% opacity limit.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 155 for 6 NYCRR 227-1: This condition is an emission unit level , emission point level and process level condition for Work Practice Involving Specific Operations for Particulates that applies to EU: 1-OGTDB, EP: 00002 and Proc: GTD. This condition specifies the heat content of the distillate fuel oil in order to comply with the 0.1 lb/MM Btu Particulate limit standard at Emission Point 00001. The heating value of the distillate fuel oil fired shall not fall below 120,000 BTU'S per gallon.

This condition applies to any person or facility who owns or operates a stationary combustion installation described in 6 NYCRR 227-1. This condition specifies the particulate emission limit, the opacity limit, the permissible emission rate for a contaminant in a fuel mixture, the corrective action to take for a violator of this Part, pertinent data concerning emissions, reference test methods and stack monitoring requirements.

Condition 1-66 for 6 NYCRR 212.9(b): This condition is an emission unit level, emission point level, process level and emission source condition for Intermittent Emission Testing for Particulates that applies to EU: 1-OGTDB, EP: 00002 Proc: GTD and ES: 000GT. This condition refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

99% or greater air cleaning is required for particulate matter emissions emitting one pound per hour or greater, as defined by emission rate potential. Best Available Control Technology (BACT) can be substituted for 99 % control or greater. The particulate matter emission has a limit of 0.1 lb/MM Btu.

Condition 1-67 for 6 NYCRR 227-1.4(a): This is a facility-wide condition. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for opacity. This condition is for emissions monitoring of opacity to determine compliance with the 20 % opacity limit for stationary combustion installations.

Any person who owns a stationary installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of tile 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title, for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of opacity is not required.

Condition 163 for 6 NYCRR 231-1.4: This is a facility-wide condition. This condition is for

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Recordkeeping/Maintenance Procedures. This condition requires this facility to comply with LAER (Lowest Achievable Emission Rate) - 6 NYCRR 231-1.4.

(a) The emissions from any air contamination source project subject to this Subpart must meet the lowest achievable emission rate as defined in Part 200 of this Title.

(b) Any source owner subject to this Subpart must submit information to establish that the lowest achievable emission rate will be applied when an application is submitted for a permit to construct.

Condition 164 for 6 NYCRR 231-1.6: This is a facility-wide condition. This condition is for Recordkeeping/Maintenance Procedures. This condition requires this facility to comply with Air Quality Impact Evaluation - 6 NYCRR 231-1.6.

(a) An application for a permit to construct for an air contamination source project applicable to this Subpart must include an air quality impact evaluation.

(b) If the air contamination source project includes proposed emissions of particulates, sulfur dioxide, carbon monoxide and/or nitrogen oxides which exceed the DE MINIMIS emission limits shown in section 231-1.9 of this Subpart, the air quality impact evaluation must show that the combined impact of the proposed new emissions and the emission offsets will not exceed the significant impacts shown in section 231-1.10 of this Subpart.

(c) The applicant for a permit to construct an air contamination source project applicable to this Subpart must conduct the air quality impact evaluation, and prepare a report in accordance with procedures acceptable to the commissioner.