



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

**Facility Identification Data**

Name: CON ED-74TH STREET STA

Address: 506 E 75TH ST

NEW YORK, NY 10021

**Owner/Firm**

Name: CONSOLIDATED EDISON COMPANY OF NEW YORK INC

Address: 4 IRVING PL RM 828

NEW YORK, NY 10003-3502, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

Name: ELIZABETH A CLARKE

Address: NYSDEC

47-40 21ST ST

LONG ISLAND CITY, NY 11101-5407

Phone:7184824997

Division of Air Resources:

Name: SIDERIS A CARAMINTZOS

Address: NYSDEC

1 HUNTER'S PT PLZ 47-40 21ST ST

LONG ISLAND CITY, NY 11101-5407

Air Permitting Contact:

Name: FEMI OGUNSOLA

Address: CONSOLIDATED EDISON CO OF NY INC

4 IRVING PL - RM 828

NEW YORK, NY 10003-3502

Phone:2124601223

**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**

Renewal of Title V Permit.

**Attainment Status**

CON ED-74TH STREET STA is located in the town of MANHATTAN in the county of NEW YORK.



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

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.)

<b>Criteria Pollutant</b>	<b>Attainment Status</b>
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Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	MODERATE NON-ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT
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\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

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

**Facility Description:**

This facility produces electricity and steam. It operate three boilers rated at 836 MMBtu/hr each, six boilers rated at 180 MMBtu/hr each and two combustion turbines rated at 223 MMBtu/hr each. The boilers combust residual oil and have the capability to combust natural gas to combust natural gas. The turbines combust distillate oil.

**Permit Structure and Description of Operations**

The Title V permit for CON ED-74TH STREET STA

is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

CON ED-74TH STREET STA is defined by the following emission unit(s):



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

Combustion Turbines 1 and 2. All boilers have the capability to burn residual oil and natural gas and can fire these fuels in various combinations. Boilers 120, 121 and 122 have a condensing heat exchanger on the exhaust, as a research and development project. The Combustion Turbines have the capability to fire distillate oil. In order to comply with the NOx requirements of 6NYCRR Subpart 227-2, the Very Large boilers are using off-stoichiometric firing and the Large boilers are using low excess air.

Emission unit 740020 is associated with the following emission points (EP):  
00001

Process: GTD is located at 1, Building BOILERHS - This process includes: two (2) combustion turbines, GT 1 and 2 rated at 223 MMBtu/hr each. These turbines combust only distillate oil.

Process: NG1 is located at 1 - 4, Building BOILERHS - This process includes: three (3) tangentially fired boilers (Nos. 120, 121, and 122) rated at 836 MMBtu/hr each. This process covers the combustion of natural gas in these boilers. These boilers will be equipped for natural gas ignition and the capability to combust natural gas. A condensing heat exchanger is installed on the exhaust of these boilers. It is a research and development process, which operates with written approval from NYSDEC.

Process: NG2 is located at 1 - 4, Building BOILERHS - This process includes: six (6) normally fired boilers (Nos. 123 through 128) rated at 180 MMBtu/hr each. This process covers the combustion of natural gas in these boilers.

Process: RO1 is located at 1 - 4, Building BOILERHS - This process includes: three (3) tangentially fired boilers (Nos. 120, 121, and 122) rated at 836 MMBtu/hr each. This process covers the combustion of residual oil in these boilers. A condensing heat exchanger is installed on the exhaust of these boilers. It is a research and development process, which operates with written approval from NYSDEC.

Process: RO2 is located at 1 - 4, Building BOILERHS - This process includes: six (6) normally fired boilers (Nos. 123 through 128) rated at 180 MMBtu/hr each. This process covers the combustion of residual oil in these boilers.

**Title V/Major Source Status**

CON ED-74TH STREET STA is subject to Title V requirements. This determination is based on the following information:

This is a major facility since the Oxides of Nitrogen emissions are equal or greater than 25 tons per year.major\_src\_status

**Program Applicability**

The following chart summarizes the applicability of CON ED-74TH STREET STA with regards to the principal air pollution regulatory programs:

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



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

RACT	YES
SIP	YES

**NOTES:**

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

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

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

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

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

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

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

**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic 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



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

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

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

**SIC Code**

**Description**

4911  
4961

ELECTRIC SERVICES  
STEAM SUPPLY

**SCC Codes**

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

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

**SCC Code**

**Description**

1-01-004-01

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

1-01-004-04

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

1-01-006-01

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

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

2-01-001-01

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

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

INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION

ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine

**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to

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



**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE 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
007440-36-0	ANTIMONY	> 0	but < 10 tpy
007440-38-2	ARSENIC	>= 10	tpy
000071-43-2	BENZENE	> 0	but < 10 tpy
000106-46-7	BENZENE, 1,4-DICHLORO-	> 0	but < 10 tpy
007440-41-7	BERYLLIUM	> 0	but < 10 tpy
000117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	> 0	but < 10 tpy
007440-43-9	CADMIUM	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 250	tpy
007440-47-3	CHROMIUM	> 0	but < 10 tpy
016065-83-1	CHROMIUM (III)	> 0	but < 10 tpy
007440-48-4	COBALT	> 0	but < 10 tpy
000100-41-4	ETHYLBENZENE	> 0	but < 10 tpy
016984-48-8	FLUORIDE	> 0	but < 2.5 tpy
000050-00-0	FORMALDEHYDE	> 0	but < 10 tpy
0NY100-00-0	HAP	>= 100	tpy but < 250 tpy
000110-54-3	HEXANE	>= 10	tpy
007647-01-0	HYDROGEN CHLORIDE	>= 10	tpy
007439-92-1	LEAD	> 0	but < 10 tpy
007439-96-5	MANGANESE	> 0	but < 10 tpy
007439-97-6	MERCURY	> 0	but < 10 tpy
000091-20-3	NAPHTHALENE	> 0	but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	>= 10	tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250	tpy
0NY075-00-0	PARTICULATES	>= 250	tpy
007723-14-0	PHOSPHORUS (YELLOW)	> 0	but < 10 tpy
0NY075-00-5	PM-10	>= 250	tpy
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	> 0	but < 10 tpy
007782-49-2	SELENIUM	> 0	but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 250	tpy
007664-93-9	SULFURIC ACID	>= 100	tpy but < 250 tpy
000108-88-3	TOLUENE	> 0	but < 10 tpy
0NY998-00-0	VOC	>= 100	tpy but < 250 tpy
001330-20-7	XYLENE, M, O & P MIXT.	> 0	but < 10 tpy

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

**Item A: 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 seeking to establish the occurrence of an emergency has the burden of proof.

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

**Item B: Public Access to Recordkeeping for Title V Facilities - 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 C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.3(a)(4)**

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

**Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**

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

**Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**

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

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and**



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

**Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)**

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

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 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 H: 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 I: Severability - 6 NYCRR Part 201-6.5(a)(9)**

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

**Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

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



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

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

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

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

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

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

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

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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



**Permit ID: 2-6204-00019/00006**  
**Renewal Number: 1**  
**12/22/2009**

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

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

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
FACILITY	ECL 19-0301	47	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 72	34	Permits regulation
FACILITY	40CFR 82-F	21	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	48	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	22	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	12	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	13	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	23, 35, 36	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (4)	14	General conditions
FACILITY	6NYCRR 201-6.5 (a) (7)	2	General conditions Fees



New York State Department of Environmental Conservation  
Permit Review Report

Permit ID: 2-6204-00019/00006

Renewal Number: 1

12/22/2009

FACILITY	6NYCRR 201-6.5 (a) (8)	15	General conditions Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (c)	3	
FACILITY	6NYCRR 201-6.5 (c) (2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201- 6.5 (c) (3) (ii)	5, 24	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	16	Compliance schedules
FACILITY	6NYCRR 201-6.5 (e)	6	Compliance Certification
7-40020	6NYCRR 201-6.5 (e)	37	Compliance Certification
FACILITY	6NYCRR 201-6.5 (f) (6)	17	Off Permit Changes
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
7-40020	6NYCRR 204-1.6	38	Standard Requirements
FACILITY	6NYCRR 204-2.1	25	Authorization and Responsibilities of the NOx Authorized Account
FACILITY	6NYCRR 204-4.1	26	Representative Compliance Certification Report
FACILITY	6NYCRR 204-7.1	27	Submission of NOx Allowance Transfers
7-40020	6NYCRR 204-8.2	39, 40	Initial Certification and Recertification Procedures
FACILITY	6NYCRR 204-8.3	28	Out of Control Periods
7-40020	6NYCRR 204-8.7	41	Additional Requirements to Provide Heat Input Data for Allocations Purposes
FACILITY	6NYCRR 207.3 (d)	29	Episode actions
FACILITY	6NYCRR 211.2	49	General Prohibitions - air pollution prohibited.
FACILITY	6NYCRR 211.3	19	General Prohibitions - visible emissions limited
FACILITY	6NYCRR 215	9	Open Fires
FACILITY	6NYCRR 225.1 (a) (3)	31	Sulfur in Fuel Limitations (SIP)
FACILITY	6NYCRR 225.7 (a)	32	Reports, Sampling and Analysis
FACILITY	6NYCRR 225-1.4	30	Exceptions contingent upon fuel shortage.
7-40020/00001	6NYCRR 227-1.2 (a) (1)	43, 44	Particulate Emissions from Liquid Fuels.
7-40020/00001	6NYCRR 227-1.3	45, 46	Smoke Emission Limitations.



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

FACILITY	6NYCRR 227-2.5 (b)	33	System-wide averaging option.
7-40020/-/GTD	6NYCRR 227-2.6 (c)	42	Stack Test Requirements.
FACILITY	6NYCRR 238-1.6 (c)	50	Sulfur Dioxide requirements
FACILITY	6NYCRR 238-1.6 (e)	51	Recordkeeping and Reporting Requirements
FACILITY	6NYCRR 238-1.6 (f)	52	Liability
FACILITY	6NYCRR 238-2.1	53	Authorization/responsibilities of the authorized account representative
FACILITY	6NYCRR 238-4.1	54	Compliance certification report
FACILITY	6NYCRR 238-7.1	55	Submission of SO2 allowance transfers
FACILITY	6NYCRR 238-8	56	Monitoring and Reporting

**Applicability Discussion:**

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

ECL 19-0301.

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

6NYCRR Part 200-.6

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

6NYCRR Part 200-.7

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

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 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 201-3.2(a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition,



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-3.3(a)

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

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 201-6.5(a)(4)

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

6NYCRR 201-6.5(a)(7)

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

6NYCRR 201-6.5(a)(8)

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

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



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

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(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 201-6.5(d)(5)

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

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.

6NYCRR 201-6.5(f)(6)

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

6NYCRR Part 202-1.1

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

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.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

40 CFR Part 68.

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

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

**Facility Specific Requirements**

In addition to Title V, CON ED-74TH STREET STA has been determined to be subject to the following regulations:

40 CFR Part 72

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

6 NYCRR 204-1.6

This condition requires the designated representative of the permittee to make submissions for the NO<sub>x</sub> Budget Program. The Program is designed to mitigate the interstate transport of ground level ozone and nitrogen oxides, a ground level ozone precursor.

6 NYCRR 204-2.1

This condition states the submission requirements for the NO<sub>x</sub> Budget Trading Program. The Program is designed to mitigate the interstate transport of ground level ozone and nitrogen oxides, a ground level ozone precursor.

6 NYCRR 204-4.1

This condition covers the compliance certification report requirements for the NO<sub>x</sub> Budget Program.

6 NYCRR 204-7.1

This condition lists the requirements for transfer of allowances in the NO<sub>x</sub> Budget Program.

6 NYCRR 204-8.2

This condition covers the procedures for initially certifying and recertifying the monitoring systems of the unit meet the requirements of the NO<sub>x</sub> Budget Program



New York State Department of Environmental Conservation  
Permit Review Report

Permit ID: 2-6204-00019/00006

Renewal Number: 1

12/22/2009

6 NYCRR 204-8.3

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

6 NYCRR 204-8.7

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

6 NYCRR 207.3 (d)

This condition requires that the facilities with an approved episode action plan shall take the actions described by the most recently approved episode action plan when an air pollution episode is in effect. The episode action plan have procedures for responding to an episode action, and requirement for maintaining an air pollution episode log.

6 NYCRR 225.1 (a) (3)

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

6 NYCRR 225.7 (a)

The commissioner may require an owner of an air contamination source to retain for up to three years, and to submit to him, fuel analyses, information on the quantity of fuel received, burned or sold, and results of stack sampling, stack monitoring and other procedures to ensure compliance with the provisions of the Part. **NOTE: This citation has been replaced by requirements cited under 225-1.8(a) and is no longer a part of current State regulations, however, it remains as part of New York State's approved State Implementation Plan (SIP).**

6 NYCRR 225-1.4

This regulation allows the Commissioner of the NYSDEC to issue an order granting a temporary variance from the sulfur-in-fuel limitations in 6 NYCRR Part 225-1 where it can be shown, to the commissioner's satisfaction, that there is an insufficient supply of conforming fuel, either of the proper type required for use in a particular air contamination source or generally throughout an area of the State.

6 NYCRR 227-1.2 (a) (1)

This regulation establishes a particulate emission limit in terms of lbs per mmBtu of heat input for stationary combustion units of greater than 250 mmBtu/hr heat input capacity which fire coal, oil, or coal derived fuels.

6 NYCRR 227-1.3

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

6 NYCRR 227-2.5 (b)

The system-wide average shall consist of a weighted average allowable emission rate based upon the weighted average of actual emissions from units that are operating. Excess reductions utilized in the system-wide average may only be counted from the lowest allowable emission rate. Simply put, if there



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

is a more stringent emission limit than RACT already in place on the unit, then excess reductions may only be counted from below that emission rate.

6 NYCRR 227-2.6 (c)

The owner/operator shall submit stack test protocol to test NOx emissions for the two turbines GT001 and GT002.

6 NYCRR 238-1.6 (c)

This Item requires the owners and operators of each SO2 budget source and each SO2 budget unit to hold SO2 allowances available for compliance deductions under NYCRR 238-6.5; and how such allowances will be managed.

6 NYCRR 238-1.6 (e)

This item requires the owners and operators of the SO2 budget source to keep on site at the source pertinent documents for a period of 5 years from the date the document is created.

6 NYCRR 238-1.6 (f)

This subdivision outlines the liability of an affected source.

6 NYCRR 238-2.1

This section outlines the authorization and responsibilities of the SO2 authorized account representative.

6 NYCRR 238-4.1

This section lists all of the requirements for the submission of the compliance certification report.

6 NYCRR 238-7.1

This section outlines the requirements for the submission of SO2 allowance transfers.

6 NYCRR Subpart 238-8

This condition requires the owner or operator of the facility to comply with the reporting and record keeping requirements of 40 CFR Part 75.

**Compliance Certification**

**Summary of monitoring activities at CON ED-74TH STREET STA:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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FACILITY	5	record keeping/maintenance procedures
FACILITY	24	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
7-40020	37	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	26	record keeping/maintenance

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



**Permit ID: 2-6204-00019/00006**  
**Renewal Number: 1**  
**12/22/2009**

7-40020	40	procedures record keeping/maintenance procedures
7-40020	41	record keeping/maintenance procedures
FACILITY	29	record keeping/maintenance procedures
FACILITY	31	work practice involving specific operations
FACILITY	32	record keeping/maintenance procedures
7-40020/00001	43	record keeping/maintenance procedures
7-40020/00001	44	intermittent emission testing
7-40020/00001	45	continuous emission monitoring (cem)
7-40020/00001	46	record keeping/maintenance procedures
FACILITY	33	record keeping/maintenance procedures
7-40020/-/GTD	42	record keeping/maintenance procedures
FACILITY	50	record keeping/maintenance procedures
FACILITY	54	record keeping/maintenance procedures

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**Basis for Monitoring**

6 NYCRR 201-6.5(c)(3) is a condition that applies to monitoring conditions in all Title V Permits.

All facilities that are subject to the Title V requirements must submit reports of any required monitoring to the NYSDEC every six months.

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

Condition 1-3 requires facility to maintain records certifying that any architectural surface coating material, as defined under 6 NYCRR Part 205.1, complies with the VOC content requirements set forth in 6 NYCRR Part 205.4.

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

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



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

**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

6NYCRR 204-4.1 -Three boilers (emission sources 120, 121 & 122 ) and two turbines(GT001 and GT002) are NOx Budget unit. This condition covers the compliance certifications requirement for the NOx Budget program.

6NYCRR 204-8.2 -This condition covers the criteria and procedures for recertifying the continuous emission monitoring systems to meet the requirements of the NOx Budget Program.

6NYCRR 204-8.4 - This condition lists the addresses where monitoring plans and their modifications, compliance certifications, recertifications, quarterly QA/QC reports and petitions for alternative monitoring are to be sent.

6NYCRR 204-8.7 - This condition requires facility to monitor and report the heat input at the unit level as per 40 CFR Part 75, if the facility is monitoring and reporting NOx mass emissions using a NOx concentration system and a flow system.

6 NYCRR Part 207.3(d) - This condition requires that the facilities with an approved episode action plan shall take the actions described by the most recently approved episode action plan when an air pollution episode is in effect. The most recent approved episode action plan, dated May 8, 2002, is available at the regional office. The The episode action pan have procedures for responding to an episode action, and requirement for maintaining an air pollution episode log.

6NYCRR Part 211.3 - Conditions reference the general SIP opacity provisions listed at 6 NYCRR § 211.3. These are facility-wide level conditions applicable to any emission sources, without specificity. Because different emissions units can create opacity through different processes (e.g., combustion, material storage) and reach the atmosphere in different ways (e.g., stacked, fugitive), an operator may be unable to conduct the same kind of opacity monitoring at each emission unit where visible emissions arise. Opacity monitoring requirements are best addressed at the Emission Unit Level section of the permit, where visible emissions might occur.

6 NYCRR Part 225.1(a)(3) - This is a federal enforceable condition which limits the percent by weight of sulfur in distillate oil and residual oil burned at the facility to 0.20% by weight and 0.30% by weight, respectively. Records of fuel monitoring are required to be kept at the facility for a minimum of five years.

6 NYCRR Part 225.7(a) - This is a federal enforceable condition requiring the permittee to maintain fuel oil supplier certifications for each oil (residual oil and distillate oil) shipment received at the facility. The monitoring method being employed has EPA concurrence. Random sampling of fuel oil suppliers has been shown to be an effective means of utilizing limited resources to enforce fuel sulfur requirements. Such sampling is justified by the fact that the sulfur characteristics of the fuel oil do not change between the supplier and the end user. On a monthly basis, Con Edison receives a third party laboratory analysis for all the residual fuel oil barge deliveries to Keyspan Ravenswood storage tank. The storage tank is owned and operated by Keyspan, but by contract, this tank feeds the 74 St Con Edison facility by pipe line.

6 NYCRR Part 227-1.2(a)(1) - The combined heat output to the sole emission point (00001) at the facility is greater than 250 MMBtu/hr. This regulation, as such, establishes a particulate matter (PM) emission limit of 0.10 pounds per MMBtu of heat input. The facility is required to demonstrate compliance with this PM emission limit by performing a stack test once during the term of the permit. The facility is also required to calculate particulate emissions in pounds per mmbtu, on a monthly basis applying the heating value and the sulfur content of the oil, in the AP-

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



**Permit ID: 2-6204-00019/00006**

**Renewal Number: 1**

**12/22/2009**

42 emission rate formula. Con Edison receives the residual oil I analysis from Key Span, on a monthly basis.

The only known parameter which would possibly have a direct correlation to PM emissions is the sulfur content of the fuel being fired. Evidence of this is found in the emission factors for PM developed by EPA where sulfur content is the only variable. Consequently, condition 1-14 has utilized this information to monitor sulfur content as it relates to PM emissions. It is also the position of the Department that this condition together with periodic visible emissions monitoring, stack testing, and regular tune-up requirements for the combustion units will provide adequate periodic monitoring of PM emissions and maintain compliance with emission requirements. This facility is subject to 6 NYCRR 227-1.2(a)(1) which is in the NY SIP but does not list an averaging time. Documentation regarding this 's unavailable. Furthermore, current test methods focus on obtaining a set volume of sample rather than a sampling time due to the variability in nozzle sizes. Averaging method of Arithmetic Mean is used in most standard reference test methods including Method 5 for particulates.

6 NYCRR Part 227-1.3 - The emissions from all the combustion sources at the facility vent to one stack. This condition prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity (six minute average), except for one six-minute period per hour of not more than 27% opacity and requires continuous opacity monitoring, . Also, the opacity of the combustion sources at this facility is restricted under Consent Order D2-0003-97-6 Appendix A of the consent order specifies the elements of Con Edison's ongoing opacity reduction program which is attached to this permit, Consent order is available at the regional office for review, upon request.

6 NYCRR 227-2.5 (b) - The combustion units are subject to the the NOx RACT standards set forth at 6 NYCRR 227-2.4. Con Edison has several such units in the New York City metropolitan area. Some of these units are compliant with the NOx RACT standards, while others are not. Pursuant to 6 NYCRR 227-2.5(b), Con Edison is allowed to average their emissions from the various units in order to demonstrate overall compliance with the NOx RACT standards. Condition #47 requires that Con Edison's system-wide averaging of NOx emissions from its facilities shall be performed in accordance with the most current version of the NOx RACT Compliance Plan and the NOx RACT Operating Plan, approved by the Department. 6 The most current version of the NOx RACT Compliance and Operating Plans dated June 7, 2005 are attached to this permit and constitute an enforceable part of the permit. A monitoring condition cited under 201-6.5(e) requires the facility to perform annual tune-ups on the boilers to insure ongoing NOx RACT compliance

6 NYCRR Part 227-2.6(c) - This condition pertains to the two combustion turbines. Con Edison uses system wide averaging of NOx emissions in accordance with 6 NYCRR Part 227-2.5, and, therefore, a unit specific allowable NOx rate is not applicable to the combustion turbines. In order to determine the NOx emission rates for each turbine, the facility is required to conduct a stack test once during the permit term. A monitoring condition cited under 201-6.5(e) requires the facility to perform annual tune-ups on the turbines to insure ongoing NOx RACT compliance. Also monitoring of various parameters is being done as per the requirements stated in Parts 204, and 227-2.5(b).

6 NYCRR Part 238 - The emissions sources, boilers 00120, 00121, 00122 are subject to this part and includes recordkeeping and certification requirements .