



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6101-00042/00044
Effective Date: 01/07/2013 Expiration Date: No expiration date

Permit Issued To: CONSOLIDATED EDISON COMPANY OF NEW YORK INC
4 IRVING PL
NEW YORK, NY 10003-3502

Contact: FEMI OGUNSOLA
CONSOLIDATED EDISON CO OF NY INC
4 IRVING PL - 15FL NE
NEW YORK, NY 10003-3502
(212) 460-1223

Facility: CON EDISON - HUDSON AVE STATION
1 HUDSON AVE
BROOKLYN, NY 11201

Contact: FEMI OGUNSOLA
CONSOLIDATED EDISON CO OF NY INC
4 IRVING PL - 15FL NE
NEW YORK, NY 10003-3502
(212) 460-1223

Description:

PERMIT DESCRIPTION
Con Edison - Hudson Avenue Generating Station
DEC ID # 2-6101-00042/00044

The facility is creating future emission reduction credits (ERCs), based on the permanent shutdown of the four (4) very large Combustion Engineering boilers, Boilers Nos. 71, 72, 81 and 82, identified as Emission Sources 00071, 00072, 00081 and 00082; respectively in Emission Unit H-A0001 at the Con Edison - Hudson Avenue Station located at 1 Hudson Avenue in Brooklyn, New York 11201. These four (4) very large boilers were permanently shutdown and ceased operation on February 7, 2011. Each boiler is rated at 688 MM Btu/hr, except Boiler 82, which is rated at 664 MM Btu/hr. These four (4) very large boilers were permanently shutdown and ceased operation on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. The Hudson Avenue Low-Pressure Boilers House was officially closed on April 29, 2011. The boilers have not been physically removed yet. The facility is working on plans to permanently remove the boilers and



demolish their stack. All four boilers have been disabled in accordance with the closure plan submitted with the Title V permit application. All of the fuel oil pumps and motors have been removed, the fuel oil supply and return lines to each of the four tanks cut and the fuel oil tanks emptied and rendered unusable. All the steam main line from the boilers were cut and capped. The 'Grand and Water Street Main' were cut and capped. Boiler 71,72,81,82 main fuel oil and ignition oil trip valves were removed and piping cut and capped. Electrical power and switches to the boilers were disabled. In addition, CEMS equipment was shut down and disconnected from the boilers.

Emissions of regulated pollutants from the facility are significantly reduced. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

Baseline Justification and Emission Calculations - Hudson Avenue Station Boilers 71, 72, 81 and 82 Shutdown: Emission Reduction Credits:

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu x 1/2, or 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and summing the monthly by month NO_x emissions from the CEMS data over the baseline period for the 24 months beginning with June-07 and ending with May-09 and then dividing by 2, the NO_x Emission Reduction Credits are 355.84 tons of NO_x/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0051 lb/MM Btu from EPA AP-42, the VOC Emission Reduction Credits are as follow:



$3,068,938 \text{ MM Btu/yr} \times 0.0051 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 7.83 \text{ tons of VOC/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0340 lb/MM Btu from EPA AP-42, the CO Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0340 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 52.17 \text{ tons of CO/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.3000 lb/MM Btu from EPA AP-42, the SO₂ Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.3000 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 460.34 \text{ tons of SO}_2\text{/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0465 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM emission factor is 0.0365 (Filterable PM emission factor from 2008 Stack Testing) + 0.01 (Condensable Part from AP-42 recommended value). The PM Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0465 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 71.35 \text{ tons of PM/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0359 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM-10 emission factor is 71% of 0.0365 (Filterable PM emission factor from the 2008 Stack Testing) + 0.01 (Condensable Part from AP-42). The PM-10 Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0359 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 55.11 \text{ tons of PM-10/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0290 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM-2.5 emission factor is 52% of 0.0365 (Filterable PM emission factor from the 2008 Stack Testing) + 0.01 (Condensable Part from AP-42). The PM-2.5 Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0290 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 44.71 \text{ tons of PM-2.5/yr}$



Based upon actual emissions from the Con Edison - Hudson Avenue Station's four Combustion Engineering boilers between June 2007 and May 2009, and in accordance with 6 NYCRR 231-10, the calculated reduction in average annual emissions from the Station from the permanent shutdown of these four boilers has created the following Emission Reduction Credits (ERCs): 355.84 tons of NOx, 7.83 tons of VOC, 52.17 tons of CO, 460.34 tons of SO2, 71.35 tons of PM, 55.11 tons of PM-10, and 44.71 tons of PM2.5.

Baseline Justification and Emission Calculations for NOx, PM10 and PM2.5 for Boilers 71, 72, 81 and 82:

Month	Heat Input (MM Btu)	NOx Emission Rates (lb/MMBtu)	NOx (tons)	PM10 (tons)	PM2.5 (tons)
June-07	137,416	0.2297	15.78	2.47	1.99
July-07	310,739	0.2500	38.84	5.58	4.50
August-07	241,617	0.2500	30.20	4.34	3.50
September-07	225,358	0.2492	28.07	4.05	3.27
October-07	70,478	0.2500	8.81	1.27	1.02
November-07	220,380	0.2392	26.36	3.96	3.19
December-07	374,777	0.2385	44.69	6.73	5.43
January-08	295,855	0.2463	36.43	5.31	4.29
February-08	353,728	0.2351	41.59	6.35	5.13
March-08	293,479	0.2197	32.23	5.27	4.25
April-08	241,929	0.2347	28.39	4.34	3.51
May-08	279,172	0.2407	33.59	5.01	4.05
June-08	171,821	0.2353	20.21	3.09	2.49
July-08	186,706	0.2385	22.27	3.35	2.71
August-08	42,955	0.1781	3.82	0.77	0.62
September-08	211,528	0.1695	17.93	3.80	3.07
October-08	107,601	0.1835	9.87	1.93	1.56
November-08	200,362	0.2500	25.05	3.60	2.90
December-08	381,165	0.2099	40.00	6.84	5.52
January-09	463,003	0.2349	54.39	8.31	6.71
February-09	316,606	0.2158	34.15	5.69	4.59
March-09	550,766	0.2500	68.85	9.89	7.98
April-09	273,433	0.2114	28.90	4.91	3.96
May-09	187,003	0.2272	21.24	3.36	3.20

24-Month Annual Average = 3,068,938 MM Btu



Baseline Justification and Emission Calculations for VOC, CO, SO2 and PM for Boilers 71, 72, 81 and 82:

Month	Heat Input (MM Btu)	VOC (tons)	CO (tons)	SO2 (tons)	PM (tons)
June-07	137,416	0.35	2.34	20.61	3.19
July-07	310,739	0.79	5.28	46.61	7.22
August-07	241,617	0.62	4.11	36.24	5.62
September-07	225,358	0.57	3.83	33.80	5.24
October-07	70,478	0.18	1.20	10.57	1.64
November-07	220,380	0.56	3.75	33.06	5.12
December-07	374,777	0.96	6.37	56.22	8.71
January-08	295,855	0.75	5.03	44.38	6.88
February-08	353,728	0.90	6.01	53.06	8.22
March-08	293,479	0.75	4.99	44.02	6.82
April-08	241,929	0.62	4.11	36.29	5.62
May-08	279,172	0.71	4.75	41.88	6.49
June-08	171,821	0.44	2.92	25.77	3.99
July-08	186,706	0.48	3.17	28.01	4.34
August-08	42,955	0.11	0.73	6.44	1.00
September-08	211,528	0.54	3.60	31.73	4.92
October-08	107,601	0.27	1.83	16.14	2.50
November-08	200,362	0.51	3.41	30.05	4.66
December-08	381,165	0.97	6.48	57.17	8.86
January-09	463,003	1.18	7.87	69.45	10.76
February-09	316,606	0.81	5.38	47.49	7.36
March-09	550,766	1.40	9.36	82.61	12.81
April-09	273,433	0.70	4.65	41.01	6.36
May-09	187,003	0.48	3.18	28.05	4.35

24-Month Annual Average = 3,068,938 MM Btu

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: JOHN F CRYAN
 NYSDEC
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5407

Authorized Signature: _____ Date: ____ / ____ / ____





Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal -

REGION 2 HEADQUARTERS



DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.



Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 482-4997

New York State Department of Environmental Conservation

Permit ID: 2-6101-00042/00044

Facility DEC ID: 2610100042



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: CONSOLIDATED EDISON COMPANY OF NEW YORK INC
4 IRVING PL
NEW YORK, NY 10003-3502

Facility: CON EDISON - HUDSON AVE STATION
1 HUDSON AVE
BROOKLYN, NY 11201

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES
4931 - ELEC & OTHER SERVICES COMBINED

Permit Effective Date: 01/07/2013
date.

Permit Expiration Date: No expiration
date.



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 211.1: Air pollution prohibited
- 2 6 NYCRR Subpart 231-10: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 3 ECL 19-0301: Contaminant List
- 4 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 5 6 NYCRR Subpart 201-5: Compliance Demonstration
- 6 6 NYCRR 211.2: Visible Emissions Limited
- 7 6 NYCRR Subpart 231-10: Compliance Demonstration
- 8 6 NYCRR Subpart 231-10: Compliance Demonstration
- 9 6 NYCRR Subpart 231-10: Compliance Demonstration
- 10 6 NYCRR Subpart 231-10: Compliance Demonstration
- 11 6 NYCRR Subpart 231-10: Compliance Demonstration
- 12 6 NYCRR Subpart 231-10: Compliance Demonstration
- 13 6 NYCRR Subpart 231-10: Compliance Demonstration
- 14 6 NYCRR Subpart 231-10: Compliance Demonstration



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 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 - 6 NYCRR 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 - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is 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 - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR 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 - 6 NYCRR 201-1.5

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

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

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

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



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

Item F: Recycling and Salvage - 6 NYCRR 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 - 6 NYCRR 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: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 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 I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 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 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: Required Emission Tests - 6 NYCRR 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 6 NYCRR Subpart 202-1.

- Item K: Open Fires Prohibitions - 6 NYCRR 215.2**
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.
- 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.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Air pollution prohibited



Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 211.1

Item 1.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 2: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 231-10

Item 2.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

SHUTDOWN/CLOSURE PLAN FOR HUDSON AVENUE STATION FOUR
(4) VERY LARGE BOILERS (Nos. 71, 72, 81 & 82)

All four (4) low pressure very large boilers at Hudson Avenue Station were permanently shutdown on February 7, 2011, when the fuel in their No. 6 fuel oil supply tanks fell below the minimum level for operation. Set forth below are detailed descriptions of the steps that were taken by April 29, 2011, to render the boilers physically inoperable for future use.

Fuel Supply:

Con Edison will physically disconnect the No. 6 fuel oil supply to Boilers 71, 72, 81 & 82 by removing the fuel oil trip valves located at the boiler fronts, cutting and capping the fuel oil supply piping at the boiler fronts, and mechanically and electrically disconnecting the fuel oil pumps at the fuel oil supply tanks. These actions effectively isolated each boiler from the No. 6 fuel oil supply stored at the tank farm.

The kerosene supply for the ignition system for each boiler was isolated by cutting and capping the supply piping for each boiler and the electrical and mechanical disconnection of the common kerosene supply



pumps.

Electrical System:

Con Edison de-energized the 2300VAC auxiliaries for the boilers, forced draft fans, induced draft fans and boiler feed pumps, and disabled these electrical supplies by removing the associated truck switches (oil circuit breakers) from their cubicles, draining the dielectric fluid, and disassembling portions of the truck switches, rendering them environmentally safe and inoperable.

Steam Send Out System:

Con Edison isolated the boilers from distribution to Steam System by cutting and capping the 24-inch Grand and Water Street mains -- the common outlets of the four boilers -- eliminating both the steam outlet from the boilers and the source of auxiliary steam for the start-up of the balance-of-plant equipment.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 3: Contaminant List

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 3.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY075-00-5
Name: PM-10

CAS No: 0NY075-02-5
Name: PM 2.5

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0
Name: VOC

Condition 4: Unavoidable noncompliance and violations

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 4.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

- (a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air



contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 5: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 5.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of this 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 during normal operating hours, for the purpose of



determining compliance with this and any other state or federal air pollution control requirements, regulations or law.

Con Edison - Hudson Avenue Station is applying for the emission reduction credits (ERCs) for the removal of the four (4) low pressure very large Combustion Engineering boilers Nos. 71, 72, 81 and 82, identified as Emission Sources 00071, 00072, 00081 and 00082; respectively in Emission Unit H-A0001 at the Con Edison - Hudson Avenue Station located at 1 Hudson Avenue in Brooklyn, NY. The facility is creating future emission reduction credits (ERCs), based on the permanent shutdown of these four boilers. These four (4) very large boilers were permanently shutdown and ceased operation on February 7, 2011. Each boiler is rated at 688 MM Btu/hr, except Boiler 82, which is rated at 664 MM Btu/hr. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. Emissions of regulated pollutants from the facility are significantly reduced. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

The facility will maintain the Title V major permit for the continued operation of three simple cycle combustion turbines (Emission Sources GT003, GT004 and GT005) used to generate electricity.

According to 6 NYCRR 231-10.3(a), Con Edison - Hudson Avenue Station, located at 1 Hudson Avenue in Brooklyn, New York 11201 is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of these four boilers, and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the four boilers. The baseline period is from 6/1/2007 through 5/31/2009.

Based upon actual emissions from the Con Edison - Hudson Avenue Station's boilers between June 2007 and May 2009, the calculated reduction in average annual emissions from the Station from the permanent shutdown of these four boilers includes 355.84 tons of NO_x, 7.83 tons of VOC, 52.17 tons of CO, 460.34 tons of SO₂, 71.35 tons of PM, 55.11 tons of PM-10, and 44.71 tons of PM_{2.5}.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 6: Visible Emissions Limited
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 6.1:

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.

Condition 7: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 231-10

Item 7.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 (Emission Sources 00071, 00072, 00081 & 00082, respectively) in Emission Unit H-A0004 were permanently shut down on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers



71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0051 lb/MM Btu from EPA AP-42, the VOC Emission Reduction Credits are as follow:

$$3,068,938 \text{ MM Btu/yr} \times 0.0051 \text{ lb/MM Btu} \\ \times 1 \text{ ton}/2000 \text{ lbs} = 7.83 \text{ tons of VOC/yr}$$

Baseline Justification and Emission Calculations for Boilers 71, 72, 81 & 82 Shutdown:

Month VOC (tons)	Heat Input (MM Btu)
June-07 0.35	137,416
July-07 0.79	310,739
August-07 0.62	241,617
September-07 0.57	225,358
October-07 0.18	70,478
November-07 0.56	220,380
December-07	374,777

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0.96	
January-08	295,855
0.75	
February-08	353,728
0.90	
March-08	293,479
0.75	
April-08	241,929
0.62	
May-08	279,172
0.71	
June-08	171,821
0.44	
July-08	186,706
0.48	
August-08	42,955
0.11	
September-08	211,528
0.54	
October-08	107,601
0.27	
November-08	200,362
0.51	
December-08	381,165
0.97	
January-09	463,003
1.18	
February-09	316,606
0.81	
March-09	550,766
1.40	
April-09	273,433
0.70	
May-09	187,003
0.48	

24-Month Annual Average = 3,068,938 MM
 Btu. Total annual VOC emissions = 7.83
 tons/yr

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: VOC

Upper Permit Limit: 7.83 tons

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING

DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 8: Compliance Demonstration
 Effective between the dates of 01/07/2013 and Permit Expiration Date



Applicable State Requirement:6 NYCRR Subpart 231-10

Item 8.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 (Emission Sources 00071, 00072, 00081 & 00082, respectively) in Emission Unit H-A0004 were permanently shut down on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was

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6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0340 lb/MM Btu from EPA AP-42, the CO Emission Reduction Credits are as follow:

$$3,068,938 \text{ MM Btu/yr} \times 0.0340 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 52.17 \text{ tons of CO/yr}$$

Baseline Justification and Emission Calculations for Boilers 71, 72, 81 & 82 Shutdown:

Month CO Btu) (tons)	Heat Input (MM Btu)
June-07 2.34	137,416
July-07 5.28	310,739
August-07 4.11	241,617
September-07 3.83	225,358
October-07 1.20	70,478
November-07 3.75	220,380
December-07 6.37	374,777
January-08 5.03	295,855
February-08 6.01	353,728
March-08 4.99	293,479
April-08 4.11	241,929
May-08 4.75	279,172
June-08 2.92	171,821
July-08 3.17	186,706
August-08	42,955

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0.73	
September-08	211,528
3.60	
October-08	107,601
1.83	
November-08	200,362
3.41	
December-08	381,165
6.48	
January-09	463,003
7.87	
February-09	316,606
5.38	
March-09	550,766
9.36	
April-09	273,433
4.65	
May-09	187,003
3.18	

24-Month Annual Average = 3,068,938 MM
Btu. Total actual CO emissions= 52.17
tons/yr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: NUMBER 6 OIL
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 52.17 tons
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 9: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 231-10

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY075-02-5 PM 2.5

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:
The four Combustion Engineering boilers,



Boilers 71, 72, 81 and 82 (Emission Sources 00071, 00072, 00081 & 00082, respectively) in Emission Unit H-A0004 were permanently shut down on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0290 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM-2.5 emission factor is 52% of 0.0365 (Filterable PM emission factor from the 2008 Stack Testing) + 0.01 (Condensable Part from AP-42). The PM-2.5 Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0290 \text{ lb/MM Btu}$



x 1 ton/2000 lbs = 44.71 tons of
 PM-2.5/yr

Baseline Justification and Emission
 Calculations for Boilers 71, 72, 81 & 82
 Shutdown:

Month	Heat Input PM2.5 (MM Btu)	(tons)
June-07	137,416	
1.99		
July-07	310,739	
4.50		
August-07	241,617	3.50
September-07	225,358	3.27
October-07	70,478	1.02
November-07	220,380	3.19
December-07	374,777	5.43
January-08	295,855	4.29
February-08	353,728	5.13
March-08	293,479	4.25
April-08	241,929	
3.51		
May-08	279,172	
4.05		
June-08	171,821	
2.49		
July-08	186,706	
2.71		
August-08	42,955	
0.62		
September-08	211,528	3.07
October-08	107,601	1.56
November-08	200,362	2.90
December-08	381,165	5.52
January-09	463,003	6.71

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February-09 316,606 4.59

March-09 550,766 7.98

April-09 273,433
3.96

May-09 187,003
3.20

24-Month Annual Average = 3,068,938 MM
Btu. Total actual PM2.5 emissions =
44.71 tons/yr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: PM 2.5

Upper Permit Limit: 44.71 tons

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 10: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 231-10

Item 10.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The four Combustion Engineering boilers,
Boilers 71, 72, 81 and 82 (Emission
Sources 00071, 00072, 00081 & 00082,
respectively) in Emission Unit H-A0004
were permanently shut down on February 7,
2011. These four boilers were
disconnected from the Con Edison steam
production system on April 29, 2011. A
Title V modification, DEC ID #
2-6101-00042/00011 (Ren 1, Mod 2)
reflecting the removal of these four



boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.3000 lb/MM Btu from EPA AP-42, the SO₂ Emission Reduction Credits are as follow:

$$3,068,938 \text{ MM Btu/yr} \times 0.3000 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 460.34 \text{ tons of SO}_2/\text{yr}$$

Baseline Justification and Emission Calculations for Boilers 71, 72, 81 & 82 Shutdown:

Month	Heat Input
SO ₂	(MM Btu)
(tons)	
June-07	137,416
20.61	
July-07	310,739

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46.61	
August-07	241,617
36.24	
September-07	225,358
33.80	
October-07	70,478
10.57	
November-07	220,380
33.06	
December-07	374,777
56.22	
January-08	295,855
44.38	
February-08	353,728
53.06	
March-08	293,479
44.02	
April-08	241,929
36.29	
May-08	279,172
41.88	
June-08	171,821
25.77	
July-08	186,706
28.01	
August-08	42,955
6.44	
September-08	211,528
31.73	
October-08	107,601
16.14	
November-08	200,362
30.05	
December-08	381,165
57.17	
January-09	463,003
69.45	
February-09	316,606
47.49	
March-09	550,766
82.61	
April-09	273,433
41.01	
May-09	187,003
28.05	

24-Month Annual Average = 3,068,938 MM
Btu. Total actual SO₂ emissions = 460.34
tons/yr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: NUMBER 6 OIL



Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 460.34 tons
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 11: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR Subpart 231-10

Item 11.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 (Emission Sources 00071, 00072, 00081 & 00082, respectively) in Emission Unit H-A0004 were permanently shut down on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a



shutdown/closure plan for the boilers.
The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0465 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM emission factor is 0.0365 (Filterable PM emission factor from 2008 Stack Testing) + 0.01 (Condensable Part from AP-42 recommended value). The PM Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0465 \text{ lb/MM Btu}$
 $\times 1 \text{ ton}/2000 \text{ lbs} = 71.35 \text{ tons of}$
PM/yr

Baseline Justification and Emission Calculations for Boilers 71, 72, 81 & 82 Shutdown:

Month	Heat Input (MM Btu)	PM (tons)
June-07	137,416	3.19
July-07	310,739	7.22
August-07	241,617	5.62
September-07	225,358	5.24
October-07	70,478	1.64
November-07	220,380	5.12
December-07	374,777	8.71
January-08	295,855	6.88

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February-08	353,728	8.22
March-08	293,479	6.82
April-08	241,929	5.62
May-08	279,172	6.49
June-08	171,821	3.99
July-08	186,706	4.34
August-08	42,955	1.00
September-08	211,528	4.92
October-08	107,601	2.50
November-08	200,362	4.66
December-08	381,165	8.86
January-09	463,003	10.76
February-09	316,606	7.36
March-09	550,766	12.81
April-09	273,433	6.36
May-09	187,003	4.35

24-Month Annual Average 3,068,938 MM
 Btu. Total actual PM emissions = 71.35
 tons/yr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: PARTICULATES

Upper Permit Limit: 71.35 tons

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
 DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 12: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 231-10

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Permit ID: 2-6101-00042/00044

Facility DEC ID: 2610100042



Item 12.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 (Emission Sources 00071, 00072, 00081 & 00082, respectively) in Emission Unit H-A0004 were permanently shut down on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.



For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0359 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM-10 emission factor is 71% of 0.0365 (Filterable PM emission factor from the 2008 Stack Testing) + 0.01 (Condensable Part from AP-42). The PM-10 Emission Reduction Credits are as follow:

3,068,938 MM Btu/yr x 0.0359 lb/MM Btu
 x 1 ton/2000 lbs = 55.11 tons of
 PM-10/yr

Baseline Justification and Emission
 Calculations for Boilers 71, 72, 81 & 82
 Shutdown:

Month PM-10 (MM Btu)	Heat Input (tons)	
June-07 2.47	137,416	
July-07 5.58	310,739	
August-07 4.34	241,617	
September-07	225,358	4.05
October-07 1.27	70,478	
November-07	220,380	3.96
December-07	374,777	6.73
January-08 5.31	295,855	
February-08 6.35	353,728	
March-08 5.27	293,479	
April-08 4.34	241,929	
May-08 5.01	279,172	
June-08 3.09	171,821	
July-08 3.35	186,706	

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August-08	42,955	
0.77		
September-08	211,528	3.80
October-08	107,601	
1.93		
November-08	200,362	3.60
December-08	381,165	6.84
January-09	463,003	
8.31		
February-09	316,606	
5.69		
March-09	550,766	
9.89		
April-09	273,433	
4.91		
May-09	187,003	
3.36		

24-Month Annual Average = 3,068,938 MM
 Btu. Total actual PM-10 emissions =
 55.11 tons/yr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: PM-10

Upper Permit Limit: 55.11 tons

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
 DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 13: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 231-10

Item 13.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is creating future emission
 reduction credits (ERCs), based on the
 permanent shutdown on 2/7/2011 of the
 four (4) low pressure very large



Combustion Engineering boilers, Boilers Nos. 71, 72, 81 and 82, identified as Emission Sources 00071, 00072, 00081 and 00082; respectively in Emission Unit H-A0001 at the Con Edison - Hudson Avenue Station, located at 1 Hudson Avenue in Brooklyn, New York 11201. Each boiler is rated at 688 MM Btu/hr, except Boiler 82, which is rated at 664 MM Btu/hr. These four (4) very large boilers were permanently shutdown and ceased operation on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. Emissions of regulated pollutants from the facility are significantly reduced. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011. The facility will maintain the Title V major permit for the continued operation of three simple cycle combustion turbines (Emission Sources GT003, GT004 and GT005) used to generate electricity.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four (4) low pressure very large Combustion Engineering boilers, Boilers 71, 72, 81 and 82, and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 5/31/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from



6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

Baseline Justification and Emission Calculations - Hudson Avenue Station Boilers 71, 72, 81 and 82 Shutdown: Emission Reduction Credits:

For the permanent shut-down of Boilers 71, 72, 81 and 82, and summing the monthly by month NOx emissions from the CEMS data over the baseline period for the 24 months beginning with June-07 and ending with May-09 and then dividing by 2, the NOx Emission Reduction Credits are 355.84 tons of NOx/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0051 lb/MM Btu from EPA AP-42, the VOC Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0051 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 7.83 \text{ tons of VOC/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0340 lb/MM Btu from EPA AP-42, the CO Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0340 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 52.17 \text{ tons of CO/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.3000 lb/MM Btu from EPA AP-42, the SO2 Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.3000 \text{ lb/MM Btu} \times 1 \text{ ton}/2000 \text{ lbs} = 460.34 \text{ tons of SO}_2\text{/yr}$

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0465 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM emission



factor is 0.0365 (Filterable PM emission factor from 2008 Stack Testing) + 0.01 (Condensable Part from AP-42 recommended value). The PM Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0465 \text{ lb/MM Btu}$
 $\times 1 \text{ ton}/2000 \text{ lbs} = 71.35 \text{ tons of}$
PM/yr

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0359 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM-10 emission factor is 71% of 0.0365 (Filterable PM emission factor from the 2008 Stack Testing) + 0.01 (Condensable Part from AP-42). The PM-10 Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0359 \text{ lb/MM Btu}$
 $\times 1 \text{ ton}/2000 \text{ lbs} = 55.11 \text{ tons of}$
PM-10/yr

For the permanent shut-down of Boilers 71, 72, 81 and 82, and using an emission factor of 0.0290 lb/MM Btu from the 2008 Stack Test and EPA AP-42, the PM-2.5 emission factor is 52% of 0.0365 (Filterable PM emission factor from the 2008 Stack Testing) + 0.01 (Condensable Part from AP-42). The PM-2.5 Emission Reduction Credits are as follow:

$3,068,938 \text{ MM Btu/yr} \times 0.0290 \text{ lb/MM Btu}$
 $\times 1 \text{ ton}/2000 \text{ lbs} = 44.71 \text{ tons of}$
PM-2.5/yr

Based upon actual emissions from the Con Edison - Hudson Avenue Station's four (4) low pressure very large boilers Combustion Engineering boilers between June 2007 and May 2009, and in accordance with 6 NYCRR 231-10, the calculated reduction in average annual emissions from the Station from the permanent shutdown of these four boilers has created the following Emission Reduction Credits (ERCs): 355.84 tons of NOx, 7.83 tons of VOC, 52.17 tons of CO, 460.34

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tons of SO₂, 71.35 tons of PM, 55.11 tons of PM-10, and 44.71 tons of PM_{2.5}.

Baseline Justification and Emission Calculations for Boilers 71, 72, 81 & 82 Shutdown:

Month Heat Input NOx Emission
(MM Btu) Rates(lb/MMBtu)

June-07	137,416	0.2297
July-07	310,739	0.2500
August-07	241,617	0.2500
September-07	225,358	0.2492
October-07	70,478	0.2500
November-07	220,380	0.2392
December-07	374,777	0.2385
January-08	295,855	0.2463
February-08	353,728	0.2351
March-08	293,479	0.2197
April-08	241,929	0.2347
May-08	279,172	0.2407
June-08	171,821	0.2353
July-08	186,706	0.2385
August-08	42,955	0.1781
September-08	211,528	0.1695
October-08	107,601	0.1835
November-08	200,362	0.2500
December-08	381,165	0.2099
January-09	463,003	

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0.2349
February-09 316,606 0.2158

March-09 550,766

0.2500

April-09 273,433

0.2114

May-09 187,003 0.2272

24-Month Annual Average = 3,068,938
lb/MMBtu

Baseline Justification and Emission
Calculations for NOx, PM10 and PM2.5 for
Boilers 71, 72, 81 and 82:

Month	Heat Input (lb/MMBtu)	NOx (tons)	PM10 (tons)	PM2.5 (tons)
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June-07	137,416	15.78	2.47	1.99
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July-07	310,739	38.84	5.58	4.50
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August-07	241,617	30.20	4.34	3.50
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September-07	225,358	28.07	4.05	3.27
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October-07	70,478	8.81	1.27	1.02
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November-07	220,380	26.36	3.96	3.19
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December-07	374,777	44.69	6.73	5.43
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January-08	295,855	36.43	5.31	4.29
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February-08	353,728	41.59	6.35	5.13
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March-08	293,479	32.23	5.27	4.25
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April-08	241,929	28.39	4.34	3.51
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May-08	279,172	33.59	5.01	4.05
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June-08	171,821	20.21	3.09	2.49
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July-08	186,706	22.27	3.35	2.71
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August-08	42,955	3.82	0.77	0.62
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September-08	211,528	17.93	3.80
			3.07
October-08	107,601	9.87	1.93
			1.56
November-08	200,362	25.05	3.60
			2.90
December-08	381,165	40.00	6.84
			5.52
January-09	463,003	54.39	8.31
			6.71
February-09	316,606	34.15	5.69
			4.59
March-09	550,766	68.85	9.89
			7.98
April-09	273,433	28.90	4.91
			3.96
May-09	187,003	21.24	3.36
			3.20

24-Month Annual Average = 3,068,938 MM
Btu

Baseline Justification and Emission
Calculations for VOC, CO, SO2 and PM for
Boilers 71, 72, 81 and 82:

Month	VOC	CO	SO2	PM
	(tons)	(tons)	(tons)	(tons)

June-07	0.35	2.34	20.61
			3.19
July-07	0.79	5.28	46.61
			7.22
August-07	0.62	4.11	36.24
			5.62
September-07	0.57	3.83	33.80
			5.24
October-07	0.18	1.20	10.57
			1.64
November-07	0.56	3.75	33.06
			5.12
December-07	0.96	6.37	56.22
			8.71
January-08	0.75	5.03	44.38
			6.88
February-08	0.90	6.01	53.06
			8.22
March-08	0.75	4.99	44.02
			6.82
April-08	0.62	4.11	36.29

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5.62				
May-08	0.71	4.75	41.88	
6.49				
June-08	0.44	2.92	25.77	
3.99				
July-08	0.48	3.17	28.01	
4.34				
August-08	0.11	0.73	6.44	
1.00				
September-08	0.54	3.60	31.73	
4.92				
October-08	0.27	1.83	16.14	
2.50				
November-08	0.51	3.41	30.05	
4.66				
December-08	0.97	6.48	57.17	
8.86				
January-09	1.18	7.87	69.45	
10.76				
February-09	0.81	5.38	47.49	
7.36				
March-09	1.40	9.36	82.61	
12.81				
April-09	0.70	4.65	41.01	
6.36				
May-09	0.48	3.18	28.05	4.35

24-Month Annual Average = 3,068,938 MM
Btu

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 14: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 231-10

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:



The four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 (Emission Sources 00071, 00072, 00081 & 00082, respectively) in Emission Unit H-A0004 were permanently shut down on February 7, 2011. These four boilers were disconnected from the Con Edison steam production system on April 29, 2011. A Title V modification, DEC ID # 2-6101-00042/00011 (Ren 1, Mod 2) reflecting the removal of these four boilers and Emission Unit H-A0001 was issued to Con Edison-Hudson Ave Station on July 12, 2011.

According to 6 NYCRR 231-10.3(a), the facility is seeking approval to quantify and create future emission reduction credits (ERCs) based upon the permanent shutdown and retirement of the four Combustion Engineering boilers, Boilers 71, 72, 81 and 82 and other supporting documentation establishing that the emission reduction is surplus, quantifiable, permanent and enforceable, including a baseline justification and emissions calculations and a shutdown/closure plan for the boilers. The baseline period is from 6/1/2007 through 5/31/2009.

The facility has submitted the baseline actual emissions for Boilers 71, 72, 81 and 82 at the Hudson Avenue Station. The baseline period is from 6/1/2007 through 6/1/2009, and the average heat input from Boilers 71, 72, 81 and 82 was 6,137,877 MM Btu for two years (from 6/1/2007 through 5/31/2009), or an average of 3,068,938 MM Btu/yr.

For the permanent shut-down of Boilers 71, 72, 81 and 82, and summing the monthly by month NO_x emissions from the CEMS data over the baseline period for the 24 months beginning with June-07 and ending with May-09 and then dividing by 2, the NO_x Emission Reduction Credits are 355.84 tons of NO_x/yr.

Baseline Justification and Emission Calculations for Boilers 71, 72, 81 & 82



Shutdown:

Month	Heat Input NOx Rates (lb/MMBtu) tons	NOx Emission (MM Btu)
June-07	137,416	
	0.2297	15.78
July-07	310,739	
	0.2500	38.84
August-07	241,617	0.2500
	30.20	
September-07	225,358	0.2492
	28.07	
October-07	70,478	0.2500
	8.81	
November-07	220,380	0.2392
	26.36	
December-07	374,777	0.2385
	44.69	
January-08	295,855	0.2463
	36.43	
February-08	353,728	0.2351
	41.59	
March-08	293,479	0.2197
	32.23	
April-08	241,929	
	0.2347	28.39
May-08	279,172	0.2407
	33.59	
June-08	171,821	
	0.2353	20.21
July-08	186,706	
	0.2385	22.27
August-08	42,955	0.1781
	3.82	
September-08	211,528	0.1695
	17.93	
October-08	107,601	0.1835
	9.87	

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November-08	200,362	0.2500
25.05		
December-08	381,165	0.2099
40.00		
January-09	463,003	0.2349
54.39		
February-09	316,606	0.2158
34.15		
March-09	550,766	0.2500
68.85		
April-09	273,433	0.2114
28.90		
May-09	187,003	0.2272
21.24		

24-Month Annual Average 3,068,938 MM
Btu. Total actual NOx emissions = 355.84
tons/yr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 355.84 tons

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

