



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6304-00024/00039

Renewal Number: 2

Modification Number: 2 01/26/2018

Facility Identification Data

Name: RAVENSWOOD GENERATING STATION

Address: 38-54 VERNON BLVD

QUEENS, NY 11101

Owner/Firm

Name: HELIX RAVENSWOOD LLC

Address: 38-54 VERNON BLVD

LONG ISLAND CITY, NY 11101, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

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47-40 21ST ST

LONG ISLAND CITY, NY 11101-5401

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Division of Air Resources:

Name: PARESH SHAH

Address: NYSDEC - REGION 2

47-40 21ST ST

LONG ISLAND CITY, NY 11101

Air Permitting Contact:

Name: DANIEL O'DONNELL

Address: RAVENSWOOD GENERATING STATION

38-54 VERNON BLVD

LONG ISLAND CITY, NY 11101

Phone:7187062818

Permit Description

Introduction

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

Summary Description of Proposed Project

This minor modification is to install an Overboard Bleed System on Unit 40. The purpose of the Overboard Bleed System is to bleed compressed air from the inlet air compressor into the gas turbine (GT exhaust flow at the current low load turndown point. Normal GT combustion temperatures are maintained but fuel flow and MW output are reduced due to lower combustion air flow and bulk exhaust temperature.



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The Unit 40 minimum turndown point is expected to be reduced down to approximately 40% load (75 MW GT output). The current permit limit is 50% minimum steady state load. Short term and long term emissions from Unit 40 will not increase.

Attainment Status

RAVENSWOOD GENERATING STATION is located in the town of QUEENS in the county of QUEENS.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

| Criteria Pollutant | Attainment Status |
|---|--------------------------|
| Particulate Matter (PM) | ATTAINMENT |
| Particulate Matter < 10µ in diameter (PM10) | ATTAINMENT |
| Sulfur Dioxide (SO2) | ATTAINMENT |
| Ozone* | SEVERE NON-ATTAINMENT |
| Oxides of Nitrogen (NOx)** | ATTAINMENT |
| Carbon Monoxide (CO) | ATTAINMENT |

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

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

Facility Description:

The facility consists of one GE 7FA combustion turbine, one heat recovery steam generator (HRSG) equipped with a duct burner for supplemental firing and one steam turbine. The turbine fires natural gas with up to 30 days of distillate oil, the duct burner only fires natural gas. The plant has a nominal generating capacity of approximately 250 megawatts.

Permit Structure and Description of Operations

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



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control - emission control devices
process - any device or contrivance which may emit air contaminants
that is not included in the above categories.

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

Emission unit UCC001 - EMISSION UNIT UCC001 REPRESENTS ONE GE S107FA COMBUSTION TURBINE RATED AT 1779 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 54.6 DEGREES FAHRENHEIT AND 2028 MMBTU/HR WHEN FIRING DISTILLATE OIL(BACK-UP FUEL) AT -5 DEGREES FAHRENHEIT. THE COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 644 MMBTU/HR (HIGH HEATING VALUE) WHILE FIRING NATURAL GAS. THE COMBINED CYCLE FACILITY GENERATES APPROXIMATELY 250 MW OF POWER.

DISTILLATE FUEL USED IS ULTRA LOW SULFUR FUEL OIL. AS REFERENCED IS SOME OTHER PERMIT CONDITIONS, DISTILLATE OIL IS INTERCHANGALE WITH Kerosine.

Emission unit UCC001 is associated with the following emission points (EP):
CC001

Process: PC1 is located at GROUND, Building CCRAV01 - EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 1779 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 54.6 DEGREES FAHRENHEIT OPERATING AT 40-100% LOAD. PROCESS PC1 FOR EMISSION UNIT UCC001 REPRESENTS NATURAL GAS FIRING IN THE TURBINE AND NO DUCT BURNER FIRING. FOR THIS PROCESS DRY LOW NO_x BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO_x EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. TOTAL THROUGHPUT VALUES LISTED BELOW REPRESENT MAXIMUM NATURAL GAS USE FOR THE SHORT-TERM (HOURLY) BASIS WHILE THE ANNUAL QUANTITY PER YEAR OF NATURAL GAS REPRESENTS TURBINE OPERATIONS AT THE AVERAGE ANNUAL TEMPERATURE (54.6 DEGREES FAHRENHEIT).

Process: PC2 is located at GROUND, Building CCRAV01 - EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 2028 MMBTU/HR WHEN FIRING DISTILLATE OIL (BACK-UP FUEL) AT -5 DEGREES FAHRENHEIT OPERATING AT 40-100% LOAD. PROCESS PC2 FOR EMISSION UNIT UCC001 REPRESENTS DISTILLATE OIL FIRING IN THE TURBINE AND NO DUCT BURNER FIRING. FOR THIS PROCESS DRY LOW NO_x BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO_x EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. DISTILLATE OIL WILL BE LIMITED TO 11.32 MILLION GALLONS



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PER YEAR, WHICH IS EQUIVALENT TO 720 HOURS PER YEAR OF OPERATION. MAXIMUM TOTAL THROUGHPUT OF DISTILLATE OIL ON AN HOURLY BASIS, REPRESENTS TURBINE OPERATIONS AT -5 DEGREES FAHRENHEIT AT FULL LOAD.

DISTILLATE FUEL USED IS ULTRA LOW SULFUR FUEL OIL. AS REFERENCED IN SOME OTHER PERMIT CONDITIONS, DISTILLATE OIL IS INTERCHANGABLE WITH KEROSENE.

Process: PC3 is located at GROUND, Building CCRAV01 - EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 1779 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 54.6 DEGREES FAHRENHEIT OPERATING AT 40-100% LOAD. THE COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 644 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS PC3 FOR EMISSION UNIT UCC001 REPRESENTS NATURAL GAS FIRING IN THE GAS TURBINE AND DUCT BURNER. FOR THIS PROCESS DRY LOW NO_x BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO_x EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. TOTAL THROUGHPUT VALUES LOCATED BELOW REPRESENT NATURAL GAS USE FOR THE SHORT-TERM (HOURLY) BASIS WHILE THE ANNUAL QUANTITY PER YEAR OF NATURAL GAS REPRESENTS TURBINE OPERATIONS AT THE AVERAGE ANNUAL TEMPERATURE (54.6 DEGREES FAHRENHEIT).

Process: PC4 is located at GROUND, Building CCRAV01 - EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 2028 MMBTU/HR WHEN FIRING DISTILLATE OIL (BACK-UP FUEL) AT -5 DEGREES FAHRENHEIT OPERATING AT 85-100% LOAD. THE COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 644 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS PC4 FOR EMISSION UNIT UCC001 REPRESENTS DISTILLATE OIL FIRING IN THE GAS TURBINE, WHILE NATURAL GAS IS FIRED IN THE DUCT BURNER. FOR THIS PROCESS DRY LOW NO_x BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO_x EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. DISTILLATE OIL WILL BE LIMITED TO 11.32 MILLION GALLONS PER YEAR, WHICH IS EQUIVALENT TO 720 HOURS PER YEAR OF OPERATION. MAXIMUM TOTAL THROUGHPUT OF DISTILLATE OIL, ON AN HOURLY BASIS, REPRESENTS TURBINE OPERATIONS AT -5 D F AT FULL LOAD.

DISTILLATE FUEL USED IS ULTRA LOW SULFUR FUEL OIL. AS REFERENCED IN SOME OTHER PERMIT CONDITIONS, DISTILLATE OIL IS INTERCHANGABLE WITH KEROSENE.



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Title V/Major Source Status

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

Facility has emissions of major sources.

Program Applicability

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

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

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA,



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the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

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

Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212-3, 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, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

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

SIC Code

Description

4911

ELECTRIC SERVICES

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



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

| SCC Code | Description |
|-------------|---|
| 2-01-002-01 | INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine |
| 2-01-009-01 | INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY IC ENGINE - KEROSENE/NAPHTHA (JET FUEL) 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 Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

| Cas No. | Contaminant | PTE lbs/yr | PTE tons/yr | Actual lbs/yr | Actual tons/yr |
|-------------|----------------------------|------------|-------------|---------------|----------------|
| 007664-41-7 | AMMONIA | 146242 | | | |
| 007440-36-0 | ANTIMONY | 37 | | | |
| 007440-38-2 | ARSENIC | 18 | | | |
| 007440-39-3 | BARIUM | 1.5 | | | |
| 007440-41-7 | BERYLLIUM | 2.2 | | | |
| 007726-95-6 | BROMINE | 13 | | | |
| 007440-43-9 | CADMIUM | 2.2 | | | |
| 0NY750-00-0 | CARBON DIOXIDE EQUIVALENTS | | 1305371.55 | | |
| 000630-08-0 | CARBON MONOXIDE | 194619 | | | |
| 007440-47-3 | CHROMIUM | 5.2 | | | |
| 007440-48-4 | COBALT | 0.4 | | | |
| 007440-50-8 | COPPER | 15 | | | |
| 000050-00-0 | FORMALDEHYDE | 15070 | | | |
| 007439-92-1 | LEAD | 43 | | | |
| 007439-96-5 | MANGANESE | 8.8 | | | |
| 007439-97-6 | MERCURY | 0.05 | | | |
| 007440-02-0 | NICKEL METAL | 2.8 | | | |



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| | | |
|-------------|----------------------------|--------|
| | AND INSOLUBLE COMPOUNDS | |
| 0NY210-00-0 | OXIDES OF NITROGEN | 284000 |
| 007723-14-0 | PHOSPHORUS (YELLOW) | 13813 |
| 0NY075-02-5 | PM 2.5 | 518758 |
| 0NY075-00-5 | PM-10 | 518758 |
| 007782-49-2 | SELENIUM | 11 |
| 007446-09-5 | SULFUR DIOXIDE | 150701 |
| 007664-93-9 | SULFURIC ACID | 46696 |
| 0NY100-00-0 | TOTAL HAP | 21225 |
| 007440-62-2 | VANADIUM | 111 |
| 0NY998-00-0 | VOC | 198400 |
| 007440-66-6 | ZINC | 18 |

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

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

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

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

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

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

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

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



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stay any permit condition.

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

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

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

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

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

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

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

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

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

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

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the



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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 2 01-6.7 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 K: Permit Exclusion - ECL 19-0305

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

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

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5



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

- (a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
 - (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
 - (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
 - (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
- (c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item_02

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

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

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

Regulatory Analysis

| Location Facility/EU/EP/Process/ES | Regulation | Condition | Short Description |
|---|-------------------|------------------|--------------------------|
| FACILITY | ECL 19-0301 | 77 | Powers and Duties of |



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| | | | |
|-------------------|--------------------|--------------------|---|
| U-CC001 | 40CFR 52-A.21(j) | 40, 41, 42, 43, 44 | the Department with respect to air pollution control |
| U-CC001/CC001/PC1 | 40CFR 52-A.21(j) | 59, 60, 61, 62 | Best Available Control Technology |
| U-CC001/CC001/PC2 | 40CFR 52-A.21(j) | 63, 64, 65, 66 | Best Available Control Technology |
| U-CC001/CC001/PC3 | 40CFR 52-A.21(j) | 68, 69, 70, 71 | Best Available Control Technology |
| U-CC001/CC001/PC4 | 40CFR 52-A.21(j) | 72, 73, 74, 75 | Best Available Control Technology |
| U-CC001 | 40CFR 60-GG.334(a) | 45 | Monitoring of Operations for Turbines Employing Water Injection to Control NOx |
| U-CC001 | 40CFR 60-GG.334(b) | 46 | Monitoring of Operations: CEMS |
| FACILITY | 40CFR 68 | 18 | Chemical accident prevention provisions |
| U-CC001/-/PC1 | 40CFR 75-B.11(d) | 49 | Continuous emission monitoring - specific provisions for monitoring SO2 emissions gas-fired units and oil-fired units |
| U-CC001/-/PC3 | 40CFR 75-B.11(d) | 54 | Continuous emission monitoring - specific provisions for monitoring SO2 emissions gas-fired units and oil-fired units |
| U-CC001/CC001 | 40CFR 75-B.11(e) | 58 | Continuous emission monitoring - specific provisions for monitoring SO2 emissions units with SO2 CEM gaseous fuel |
| U-CC001/CC001/PC2 | 40CFR 75-B.11(e) | 67 | Continuous emission monitoring - specific provisions for monitoring SO2 emissions units with SO2 CEM gaseous fuel |
| U-CC001/CC001/PC4 | 40CFR 75-B.11(e) | 76 | Continuous emission monitoring - specific provisions for monitoring SO2 emissions units with SO2 CEM gaseous fuel |
| FACILITY | 40CFR 82-F | 19 | 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 | 78 | Unavoidable noncompliance and |



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| | | | |
|---------------|------------------------------|-------------------------------|---|
| FACILITY | 6NYCRR 201-1.7 | 11 | violations |
| FACILITY | 6NYCRR 201-1.8 | 12 | Recycling and Salvage Prohibition of reintroduction of collected contaminants to the air |
| FACILITY | 6NYCRR 201-3.2(a) | 13 | Exempt Activities - Proof of eligibility |
| FACILITY | 6NYCRR 201-3.3(a) | 14 | Trivial Activities - proof of eligibility |
| FACILITY | 6NYCRR 201-6 | 20, 29, 30 | Title V Permits and the Associated Permit Conditions |
| U-CC001 | 6NYCRR 201-6 | 31, 32, 33, 34, 35, 36, 37 | Title V Permits and the Associated Permit Conditions |
| FACILITY | 6NYCRR 201-6.4(a)(4) | 15 | General Conditions - Requirement to Provide Information |
| FACILITY | 6NYCRR 201-6.4(a)(7) | 2 | General Conditions - Fees |
| FACILITY | 6NYCRR 201-6.4(a)(8) | 16, 1 -1 | General Conditions - Right to Inspect |
| FACILITY | 6NYCRR 201-6.4(c) | 3 | Recordkeeping and Reporting of Compliance Monitoring Records of Monitoring, Sampling and Measurement |
| FACILITY | 6NYCRR 201- 6.4(c)(3)(ii) | 5 | Reporting Requirements - Deviations and Noncompliance |
| FACILITY | 6NYCRR 201-6.4(d)(4) | 21 | Compliance Schedules - Progress Reports |
| FACILITY | 6NYCRR 201-6.4(e) | 6 | Compliance Certification |
| FACILITY | 6NYCRR 201-6.4(f)(6) | 17 | Off Permit Changes |
| FACILITY | 6NYCRR 202-1.1 | 22 | Required emissions tests. |
| FACILITY | 6NYCRR 202-2.1 | 7 | Emission Statements - Applicability |
| FACILITY | 6NYCRR 202-2.5 | 8 | Emission Statements - record keeping requirements. |
| FACILITY | 6NYCRR 211.1 | 23 | General Prohibitions - air pollution prohibited |
| FACILITY | 6NYCRR 215.2 | 9 | Open Fires - Prohibitions |
| FACILITY | 6NYCRR 225-1.2(g) | 24 | Sulfur-in-Fuel Limitations |
| FACILITY | 6NYCRR 225-1.2(h) | 25 | Sulfur-in-Fuel Limitations |
| U-CC001/CC001 | 6NYCRR 227-1.3(a) | 57 | Smoke Emission Limitations. |
| U-CC001 | 6NYCRR 231-2 | 38, 39 | New Source Review in Nonattainment Areas and Ozone Transport Region |
| U-CC001/-/PC1 | 6NYCRR 231-2.5 | 47, 48 | Lowest achievable emission rate, LAER |
| U-CC001/-/PC2 | 6NYCRR 231-2.5 | 50, 51 | Lowest achievable |



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| U-CC001/-/PC3 | 6NYCRR 231-2.5 | 52, 53 | emission rate, LAER Lowest achievable emission rate, LAER |
| U-CC001/-/PC4 | 6NYCRR 231-2.5 | 55, 56 | Lowest achievable emission rate, LAER |
| FACILITY | 6NYCRR 242-1.5 | 79, 80 | CO2 Budget Trading Program - Standard requirements |
| FACILITY | 6NYCRR 243-8.5(e) | 26 | Compliance certification re: recordkeeping and reporting - |
| FACILITY | 6NYCRR 244-8 | 27 | Monitoring and Reporting |
| FACILITY | 6NYCRR 245-8 | 28 | Monitoring and Reporting CAIR NOx Allowances |
| | | | Monitoring and Reporting for CAIR SO2 Trading Program |

Applicability Discussion:

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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



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federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

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

6 NYCRR 201-6.4 (a) (8)

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

6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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



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

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

6 NYCRR 201-6.4 (d) (5)

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

6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.4 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 215.2

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

40 CFR Part 68

This Part lists the regulated substances and 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



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practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, RAVENSWOOD GENERATING STATION has been determined to be subject to the following regulations:

40 CFR 52.21 (j)

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

40 CFR 60.334 (a)

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

40 CFR 60.334 (b)

This regulation allows the owner/operator of a gas turbine to use a CEMS to monitor NOx emissions instead of monitoring fuel and water/steam usage.

40 CFR 75.11 (d)

This section deals with the measurements of SO₂ in gas-fired and oil-fired systems only. It specifies requirements in addition to the general operating requirements in § 75.10 and provides for alternative methods for estimating hourly SO₂ mass emissions.

40 CFR 75.11 (e)

This section applies to the measurement of SO₂ during the combustion of gaseous fuel "natural gas" only. It provides additional requirements to the general requirements, and alternative methods of determining SO₂ emissions.

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

6 NYCRR 225-1.2 (g)

Sulfur-in-fuel limitations for the purchase of distillate oil on or after July 1, 2014.



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6 NYCRR 225-1.2 (h)

Sulfur-in-fuel limitation for the firing of distillate oil on or after July 1, 2016.

6 NYCRR 227-1.3 (a)

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

6 NYCRR 231-2.5

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

Emission controls equivalent to the lowest achievable emission rate (LAER) must be implemented for each contaminant for which Subpart 231-2 is applicable for a given source project or new major facility. LAER is defined as the most stringent emission limitation achieved in practice or which can be expected to be achieved in practice for a category of emission sources taking into consideration each air contaminant which must be controlled (6 NYCRR 200.1(ak)).

6 NYCRR 242-1.5

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

6 NYCRR 243-8.5 (e)

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

6 NYCRR Subpart 231-2

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

6 NYCRR Subpart 244-8

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



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6 NYCRR Subpart 245-8

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

Compliance Certification

Summary of monitoring activities at RAVENSWOOD GENERATING STATION:

| Location Facility/EU/EP/Process/ES | Cond No. | Type of Monitoring |
|---|-----------------|---|
| U-CC001 | 40 | record keeping/maintenance procedures |
| U-CC001 | 41 | record keeping/maintenance procedures |
| U-CC001 | 42 | monitoring of process or control device parameters as surrogate |
| U-CC001 | 43 | monitoring of process or control device parameters as surrogate |
| U-CC001 | 44 | record keeping/maintenance procedures |
| U-CC001/CC001/PC1 | 59 | intermittent emission testing |
| U-CC001/CC001/PC1 | 60 | intermittent emission testing |
| U-CC001/CC001/PC1 | 61 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC1 | 62 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC2 | 63 | intermittent emission testing |
| U-CC001/CC001/PC2 | 64 | intermittent emission testing |
| U-CC001/CC001/PC2 | 65 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC2 | 66 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC3 | 68 | intermittent emission testing |
| U-CC001/CC001/PC3 | 69 | intermittent emission testing |
| U-CC001/CC001/PC3 | 70 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC3 | 71 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC4 | 72 | intermittent emission testing |
| U-CC001/CC001/PC4 | 73 | intermittent emission testing |
| U-CC001/CC001/PC4 | 74 | continuous emission monitoring (cem) |
| U-CC001/CC001/PC4 | 75 | continuous emission monitoring (cem) |
| U-CC001 | 45 | continuous emission monitoring (cem) |
| U-CC001 | 46 | record keeping/maintenance procedures |
| U-CC001/-/PC1 | 49 | monitoring of process or control device parameters as surrogate |
| U-CC001/-/PC3 | 54 | monitoring of process or control device parameters as surrogate |
| U-CC001/CC001 | 58 | record keeping/maintenance procedures |
| U-CC001/CC001/PC2 | 67 | monitoring of process or control device parameters as surrogate |
| U-CC001/CC001/PC4 | 76 | monitoring of process or control device parameters as surrogate |
| U-CC001 | 31 | record keeping/maintenance procedures |
| U-CC001 | 32 | monitoring of process or control device parameters as surrogate |
| U-CC001 | 33 | monitoring of process or control device parameters as surrogate |
| U-CC001 | 34 | continuous emission monitoring (cem) |
| U-CC001 | 35 | continuous emission monitoring (cem) |
| U-CC001 | 36 | monitoring of process or control device parameters |



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| | | |
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| U-CC001 | 37 | as surrogate |
| FACILITY | 5 | record keeping/maintenance procedures |
| FACILITY | 6 | record keeping/maintenance procedures |
| FACILITY | 7 | record keeping/maintenance procedures |
| FACILITY | 24 | work practice involving specific operations |
| FACILITY | 25 | work practice involving specific operations |
| U-CC001/CC001 | 57 | monitoring of process or control device parameters as surrogate |
| U-CC001 | 38 | intermittent emission testing |
| U-CC001 | 39 | continuous emission monitoring (cem) |
| U-CC001/-/PC1 | 47 | intermittent emission testing |
| U-CC001/-/PC1 | 48 | continuous emission monitoring (cem) |
| U-CC001/-/PC2 | 50 | intermittent emission testing |
| U-CC001/-/PC2 | 51 | continuous emission monitoring (cem) |
| U-CC001/-/PC3 | 52 | continuous emission monitoring (cem) |
| U-CC001/-/PC3 | 53 | intermittent emission testing |
| U-CC001/-/PC4 | 55 | continuous emission monitoring (cem) |
| U-CC001/-/PC4 | 56 | intermittent emission testing |
| FACILITY | 79 | record keeping/maintenance procedures |
| FACILITY | 80 | record keeping/maintenance procedures |
| FACILITY | 27 | record keeping/maintenance procedures |
| FACILITY | 28 | record keeping/maintenance procedures |

Basis for Monitoring

225: Sulfur in fuel will be monitored.

227: Opacity will be monitored.

227 NOx will be monitored.