

Facility DEC ID: 3335600136

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: CHRISTOPHER M HOGAN
625 BROADWAY
ALBANY, NY 12233

Authorized Signature: _____ Date: ___ / ___ / ____

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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.

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DEC GENERAL CONDITIONS

**** General Provisions ****

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

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 the expiration of permits for Title V and 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.

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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 3 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 3 Headquarters
Division of Environmental Permits
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3054

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: CPV VALLEY LLC
8403 Colesville Rd Ste 915
Silver Spring, MD 20910

Facility: CPV VALLEY ENERGY CENTER
3330 ROUTE 6
MIDDLETOWN, NY 10940

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES

Permit Effective Date:

Permit Expiration Date:

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- 38 46 6 NYCRR 231-5.5: Compliance Certification
- 38 47 6 NYCRR 231-5.5: Compliance Certification
- 39 48 6 NYCRR 231-7.5: Compliance Certification
- 39 49 6 NYCRR 231-7.6: Compliance Certification
- 40 50 6 NYCRR 231-7.6: Compliance Certification
- 41 51 6 NYCRR 231-7.6: Compliance Certification
- 42 52 6 NYCRR 231-7.6: Compliance Certification
- 42 53 6 NYCRR 231-7.6: Compliance Certification
- 43 54 6 NYCRR 231-7.6: Compliance Certification
- 44 55 6 NYCRR 231-7.6: Compliance Certification
- 45 56 6 NYCRR 231-7.6: Compliance Certification
- 45 57 6 NYCRR 231-7.6: Compliance Certification
- 46 58 6 NYCRR 231-7.6: Compliance Certification
- 47 59 6 NYCRR 231-7.6: Compliance Certification
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- 49 61 6 NYCRR 231-7.6: Compliance Certification
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- 50 63 6 NYCRR 231-7.6: Compliance Certification
- 51 64 6 NYCRR 231-7.6: Compliance Certification
- 52 65 6 NYCRR 231-7.6: Compliance Certification
- 52 66 6 NYCRR 231-7.6: Compliance Certification
- 53 67 6 NYCRR 231-7.6: Compliance Certification
- 54 68 6 NYCRR 231-7.6: Compliance Certification
- 55 69 6 NYCRR 231-7.6: Compliance Certification
- 56 70 6 NYCRR 231-7.6: Compliance Certification
- 56 71 6 NYCRR 231-11.1: Compliance Certification
- 57 72 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 58 73 40CFR 60, NSPS Subpart IIII: Applicability
- 58 74 40CFR 60, NSPS Subpart KKKK: Applicability
- 58 75 40CFR 60.4375, NSPS Subpart KKKK: Compliance Certification
- 59 76 40CFR 60.4395, NSPS Subpart KKKK: Reporting requirements
- 59 77 40CFR 63, Subpart ZZZZ: Applicability
- 59 78 40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations and Permitting
- 60 79 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 61 80 40CFR 97.606, Subpart CCCCC: Compliance Certification
- 62 81 40CFR 97, Subpart EEEEE: Compliance Certification
- Emission Unit Level**
- 63 82 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 64 83 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

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- 70 84 ECL 19-0301: Contaminant List
- 71 85 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 72 86 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements
- 72 87 6 NYCRR 242-1.5: Compliance Demonstration
- 73 88 6 NYCRR 242-1.5: Compliance Demonstration
- 74 89 6 NYCRR Subpart 242-4: Compliance Demonstration
- 76 90 6 NYCRR 242-8.5: Compliance Demonstration
- 78 91 6 NYCRR 251.3 (a): Compliance Demonstration

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78 92 6 NYCRR 251.6 (d): Compliance Demonstration
Emission Unit Level

EU=U-00001,EP=EP001,Proc=P1A,ES=CT001

79 93 6 NYCRR 251.3 (a): Compliance Demonstration

EU=U-00002,EP=EP002,Proc=P01,ES=CT002

80 94 6 NYCRR 251.3 (a): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS****** Facility Level ********NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

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 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 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 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 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

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planned changes or anticipated noncompliance does not 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 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 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;

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- 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 201-6.4 (i)

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

- i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the 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 section 201- 6.6 of this Subpart.
- 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.

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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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
 SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

**Condition 1: Acceptable Ambient Air Quality
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:
 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.

Condition 2: Fees

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Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-6.4 (c)

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii)The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

**Condition 4: Records of Monitoring, Sampling, and Measurement
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 5: Compliance Certification
Effective for entire length of Permit**

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Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been

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placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. 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. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions

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Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to

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certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Air Compliance Branch
USEPA Region 2 DECA/ACB
290 Broadway, 21st Floor
New York, NY 10007

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC
21 South Putt Corners Road
New Paltz, NY 12561-1696

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2020.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 9: Open Fires - Prohibitions
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter

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and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.

- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

**Condition 10: Maintenance of Equipment
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 200.7

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Item 10.1:

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.

**Condition 11: Recycling and Salvage
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-1.7****Item 11.1:**

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to
the air
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-1.8****Item 12.1:**

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.

**Condition 13: Exempt Sources - Proof of Eligibility
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-3.2 (a)****Item 13.1:**

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

**Condition 14: Trivial Sources - Proof of Eligibility
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-3.3 (a)****Item 14.1:**

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 15: Requirement to Provide Information

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Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 16: Right to Inspect
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 17: Off Permit Changes
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)

Item 17.1:

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the

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Facility DEC ID: 3335600136

facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 18: Required Emissions Tests
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 19: Accidental release provisions.
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
 C/O CSC
 8400 Corporate Dr
 Carrollton, Md. 20785

Condition 20: Recycling and Emissions Reduction

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Facility DEC ID: 3335600136

Effective for entire length of Permit

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

**Condition 21: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 200.7

Item 21.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001 Process: P1A	Emission Point: EP001 Emission Source: CT001
Emission Unit: U-00001 Process: P2A	Emission Point: EP001 Emission Source: CT001
Emission Unit: U-00001 Process: P3A	Emission Point: EP001 Emission Source: CT001
Emission Unit: U-00002 Process: P01	Emission Point: EP002 Emission Source: CT002
Emission Unit: U-00002 Process: P02	Emission Point: EP002 Emission Source: CT002
Emission Unit: U-00002 Process: P03	Emission Point: EP002 Emission Source: CT002
Regulated Contaminant(s): CAS No: 007664-41-7	AMMONIA

Item 21.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility will maintain a 5.0 ppmvd (corrected to 15% O2) limit while firing each any fuel and during duct burner operation. This emission limit applies at all loads except during startup, shutdown, and fuel switching. The

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facility will operate, calibrate, and maintain CEMs to monitor and record Ammonia stack emissions.

Manufacturer Name/Model Number: Teledyne T200M
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 5.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR 75 & 40 CFR 60, Appendices A/B/F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 22: Emission Unit Definition
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 22.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00001

Emission Unit Description:

One Siemens SGT6-5000 F-Class combustion turbine which has a nominal rating of 1,998 mmBtu/hr at 51 °F (2,234 mmBtu/hr at -5 °F on natural gas and 2,145 mmBtu/hr at -5 °F on fuel oil (<0.0015% sulfur)). The turbine is equipped with dry low-NOx combustors, steam with water injection, SCR and oxidation catalyst emission controls. This emission unit also contains a natural gas-fired duct burner rated at a nominal capacity of 500 mmBtu/hr.

Building(s): ACC01
 GEN01
 HRSG01

Item 22.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00002

Emission Unit Description:

One Siemens SGT6-5000 F-Class combustion turbine which has a nominal rating of 1,998 mmBtu/hr at 51 °F (2234 mmBtu/hr at -5 °F on natural gas and 2,145 mmBtu/hr at -5 °F on fuel oil (<0.0015% sulfur)). The turbine is equipped with dry low-NOx combustors, steam with water injection, SCR and oxidation catalyst emission controls. This emission unit also contains a natural gas-fired duct burner rated at a maximum capacity of 500 mmBtu/hr.

Building(s): ACC02
 GEN02
 HRSG02

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Facility DEC ID: 3335600136

Item 22.3:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00003

Emission Unit Description:

One auxiliary boiler with a nominal rating of 48.1 mmBtu/hr that will fire natural gas exclusively. The boiler hours will be limited to 2,000 hours per year. The boiler will operate primarily to assist with startups and shutdowns of the turbine.

Building(s): GEN02

Item 22.4:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00004

Emission Unit Description:

Emergency Diesel Generator, with a rated output of 1495 bhp, operating less than 500 hours per year.

Building(s): DGB01

Item 22.5:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00005

Emission Unit Description:

Emergency Fire Pump Diesel Engine with a rated output of 282 bhp.

Building(s): FPB01

Item 22.6:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00006

Emission Unit Description:

One Dew Point Heater with Two Fuel Gas Burners.

**Condition 23: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 23.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: P3A

Emission Point: EP001

Emission Unit: U-00002
Process: P03

Emission Point: EP002

Item 23.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator must observe the stack of each combustion turbine once per day for visible emissions while firing fuel oil. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow). The following data must be recorded for each stack:

- date and time of day
- observer's name
- identity of emission points
- weather conditions
- was a plume observed?

Incident weather conditions shall be recorded for those days when the observations are prohibited. This logbook must be retained at the facility for a minimum of five years after the date of the last entry.

If the operator observes any visible emissions (other than steam – see below) while firing oil, then a Method 9 analysis (based upon a 6-minute average) of the affected emission point(s) must be conducted. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one consecutive business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

****NOTE**** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and the stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate with a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 24: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 24.1:

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The facility will not exceed the annual diesel fuel oil usage limit of 22,100,000 gallons during each 12-month period in order to maintain compliance with emissions limits. Records of the oil usage must be reported to the Department and must be kept onsite for a minimum of five years.

Parameter Monitored: FUEL CONSUMPTION

Upper Permit Limit: 22100000 gallons

Monitoring Frequency: CONTINUOUS

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 25: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 25.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The hours of operation for the auxiliary boiler is limited to 2,000 hours per year. Records demonstrating compliance with this requirement must be kept onsite for a minimum of five years and must be made available to the Department upon request.

Monitoring Frequency: ANNUALLY

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Progress Reports Due Semiannually

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 26.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**Condition 27: Facility Permissible Emissions
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 27.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

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

PTE: 190,000 pounds per year

**Condition 28: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 28.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-5

Item 28.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 28.3:

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

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Item 28.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 28.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 28.6:

The Compliance Certification activity will be performed for the Facility.

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

Item 28.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Monthly facility-wide emissions of PM-2.5 will be calculated as the sum of monthly PM-2.5 emissions from individual emission units or source groups. Emissions will be calculated based on heat input (or, equivalently, from fuel use) and using emission factors as described below. Annual facility-wide emissions will then be determined at the end of each month on a rolling 12-month basis in order to demonstrate compliance with the 95 ton per year cap.

Unit Op Load Factor	Fuel	Grp	Emission
CT only >80%	Gas	1	0.0056
CT only <80%	Gas	2	0.0073
CT + DB >80%	Gas	3	0.0064
CT only >85%	Oil	4	0.0236
CT only <85%	Oil	5	0.0361
Aux Boiler All	Gas	6	0.0063
Gas Heater All	Gas	7	0.0076
EDG All	Oil	8	0.0195
EFP All	Oil	9	0.0374

In cases where the fuel use (gallons of oil or standard cubic feet of gas) for a source group is monitored directly rather than heat input, the equivalent heat input will be determined by multiplying the monthly fuel usage

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for the source group by the corresponding fuel heating value (mmBtu/gallon or mmBtu/scf), using the higher heating value basis for fuel.

Parameter Monitored: PM 2.5
 Upper Permit Limit: 95 tons per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 29: Visible Emissions Limited
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 211.2

Item 29.1:

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 30: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 225-1.2 (h)

Item 30.1:

The Compliance Certification activity will be performed for the Facility.

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

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Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
 Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.0015 percent by weight
 Monitoring Frequency: PER DELIVERY
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
 TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 31: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 31.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001 Process: P1A	Emission Point: EP001
Emission Unit: U-00001 Process: P2A	Emission Point: EP001
Emission Unit: U-00002 Process: P01	Emission Point: EP002
Emission Unit: U-00002 Process: P02	Emission Point: EP002
Emission Unit: U-00003 Process: P3B	Emission Point: EP003
Emission Unit: U-00006 Process: P06	Emission Point: EP006

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The applicant will conduct a Method 9 test annually. A report of the results of the test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee will be maintained at the facility for a minimum of five years.

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Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: Method 9
 Monitoring Frequency: ANNUALLY
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 32: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 227-2.4 (d)

Item 32.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00005	Emission Point: EP005
Emission Unit: U-00006	Emission Point: EP006
Regulated Contaminant(s):	
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

Monitoring Frequency: ANNUALLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 12 calendar month(s).

Condition 33: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.3

Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

This facility is subject to the Lowest Achievable Emission Rate (LAER) requirements of 6 NYCRR 231-5. The facility-wide PTE for each applicable non-attainment contaminant is:

NOx: 183.2 tpy

VOC: 63.5 tpy

Monitoring Frequency: UPON REQUEST OF REGULATORY AGENCY
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 34: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 34.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00003

Emission Point: EP003

Process: P3B

Emission Source: AUX01

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy LAER requirements, the auxiliary boiler while firing natural gas will not exceed a VOC emission limit of 0.0038 lb/mmBtu based on the Higher Heating Value (HHV) of the natural gas. Stack testing will be conducted once per permit term to demonstrate compliance with the emission limit.

Parameter Monitored: VOC

Upper Permit Limit: 0.0038 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 25A, Method 18

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 35: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 35.1:

The Compliance Certification activity will be performed for the facility:

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

The Compliance Certification applies to:

Emission Unit: U-00005 Emission Point: EP005
 Process: P05

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

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy LAER requirements, the fire pump engine will not exceed a VOC emission limit of 0.123 g/hp-hr. The facility will demonstrate compliance with this limit by using good combustion practices. Emission testing will be performed upon request of the Department.

Parameter Monitored: VOC

Upper Permit Limit: 0.123 grams per brake
 horsepower-hour

Reference Test Method: EPA Method 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 36: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: EP001
 Process: P1A

Emission Unit: U-00001 Emission Point: EP001
 Process: P2A

Emission Unit: U-00002 Emission Point: EP002
 Process: P01

Emission Unit: U-00002 Emission Point: EP002
 Process: P02

Regulated Contaminant(s):

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

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

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

To satisfy LAER requirements, each combustion turbine when firing natural gas (with and without the duct burners) will not exceed a NOx emission limit of 2.0 ppmvd (corrected to 15% O2). This emission limit applies at all loads except during start up, shutdown, and fuel switching. The facility will demonstrate compliance with this limit using CEMs to monitor NOx stack emissions.

Manufacturer Name/Model Number: Teledyne T200M

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: 40 CFR 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 37: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 37.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: EP001
Process: P3A	Emission Source: CT001

Emission Unit: U-00002	Emission Point: EP002
Process: P03	Emission Source: CT002

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

To satisfy LAER requirements, each combustion turbine firing fuel oil will not exceed a NOx emission limit of 6.0 ppmvd (corrected to 15% O2). This emission limit applies at all loads except during start up, shutdown, and

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

fuel switching. The facility will demonstrate compliance with this limit using CEMs to monitor NO_x stack emissions.

Manufacturer Name/Model Number: Teledyne T200M
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 6.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR 75
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 38: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 38.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00004 Emission Point: EP004
 Process: P04

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy LAER requirements, the emergency generator will not exceed a VOC emission limit of 0.172 g/hp-hr. The facility will demonstrate compliance with this limit using good combustion practices. Emissions testing to be performed upon request of the Department.

Parameter Monitored: VOC
 Upper Permit Limit: 0.172 grams per brake
 horsepower-hour
 Reference Test Method: EPA Method 25A
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Condition 39: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 39.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00006 Emission Point: EP006
 Process: P06

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy LAER requirements, the dew point heater with two fuel gas burners will not exceed a VOC emission limit of 0.011 lb/mmBtu. The facility will demonstrate compliance with this limit by using good combustion practices. The facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: VOC
 Upper Permit Limit: 0.011 pounds per million Btus
 Reference Test Method: EPA Method 25A
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 40.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00004 Emission Point: EP004
 Process: P04

Regulated Contaminant(s):
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy LAER requirements, the emergency generator will not exceed a NOx emission limit of 4.04 g/hp-hr. The facility will demonstrate compliance with this limit by using good combustion practices. Emissions testing to be performed upon request of the Department.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.04 grams per brake horsepower-hour

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005

Emission Point: EP005

Process: P05

Regulated Contaminant(s):

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

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy LAER requirements, the fire pump engine will not exceed a NOx emission limit of 2.20 g/hp-hr. The facility will demonstrate compliance with this limit by using good combustion practices. Emission testing will be performed upon request of the Department.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.20 grams per brake horsepower-hour

Reference Test Method: EPA Method 7E

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 42: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 42.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00006

Emission Point: EP006

Process: P06

Regulated Contaminant(s):

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

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy LAER requirements, the dew point heater with two fuel gas burners will not exceed a NOx emission limit of 0.058 lb/mmBtu for each individual gas heater. The facility will demonstrate compliance with this limit by using a forced draft low NOx Burner. Emission testing will be performed upon request of the Department.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.058 pounds per million Btus

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.4

Item 43.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Emission Unit: U-00001 Emission Point: EP001
 Process: P2A Emission Source: CT001

Emission Unit: U-00002 Emission Point: EP002
 Process: P02 Emission Source: CT002

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

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy LAER requirements, each combustion turbine firing natural gas (with duct burners) will not exceed a VOC emission limit of 1.8 ppmvd (corrected to 15% O₂). Stack testing will be conducted once per permit term to demonstrate compliance with the emission limit.

Parameter Monitored: VOC

Upper Permit Limit: 1.8 parts per million by volume
 (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, Appendix A, Method 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 44: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: EP001
 Process: P1A Emission Source: CT001

Emission Unit: U-00001 Emission Point: EP001
 Process: P3A Emission Source: CT001

Emission Unit: U-00002 Emission Point: EP002
 Process: P01 Emission Source: CT002

Emission Unit: U-00002 Emission Point: EP002
 Process: P03 Emission Source: CT002

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

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy LAER requirements, each combustion turbine firing natural gas (without duct burners) or fuel oil will not exceed a VOC emission limit of 0.7 ppmvd (corrected to 15% O₂) based upon Higher Heating Value (HHV) of the natural gas and fuel oil. Stack testing will be conducted once per permit term to demonstrate compliance with the emission limit.

Parameter Monitored: VOC

Upper Permit Limit: 0.7 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, Appendix A, Method 25A, Method 18

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 45: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-5.4

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Emission Point: EP003

Process: P3B

Emission Source: AUX01

Regulated Contaminant(s):

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

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy LAER requirements, the auxiliary boiler firing natural gas will not exceed a NO_x emission limit of 0.0490 lb/mmBtu based upon Higher Heating Value (HHV) of the natural gas. Stack testing will be conducted once per permit term to demonstrate compliance with the emission limit.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.0490 pounds per million Btus

Reference Test Method: 40 CFR 60, Appendix A, Method 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 46: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.5

Item 46.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility's potential to emit Volatile Organic Compounds (VOC) is 65 tons per year. VOC emissions must be offset at a ratio of 1.15 to 1. A total of 75 tons of offsets is required. Therefore, the facility has obtained 75 tons of VOC emission reduction credits in accordance with Part 231-5.2 (d), from the following facilities:

Arbill Incorporated
2207 West Glenwood Avenue, Philadelphia, PA
17.0 tpy

S. Walter Packaging Corp (f/k/a Uniflex Holding, Inc)
474 Grand Blvd, Westbury, NY 11590
DEC ID# 1-2822-00367
58.0 tpy

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 47: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-5.5

Item 47.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Monitoring Description:

The facility's potential to emit NOx is 187 tons per year. NOx emissions must be offset at a ratio of 1.15 to 1. A total of 216 tons of offsets is required. Therefore, the facility has obtained 216 tons of NOx emission reduction credits in accordance with Part 231-5.2 (d), from the following facility:

Sony Electronics, Inc.
777 Technology Dr., Mt. Pleasant, PA
216.0 tpy

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 48: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.5

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility is subject to the Best Available Control Technology (BACT) requirements of 6 NYCRR 231-7.5. The facility-wide PTE for each applicable contaminant is:

NOx: 183.2 tpy
CO: 341.9 tpy
SO2: 41.4 tpy
PM: 95 tpy
PM2.5: 95 tpy
PM10: 95 tpy
H2SO4: 12.6 tpy
CO2e: 2,178,017 tpy

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 49: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Item 49.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00003 Emission Point: EP003
Process: P3B Emission Source: AUX01

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10
CAS No: 0NY075-00-0 PARTICULATES

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

To satisfy BACT requirements, the auxiliary boiler firing natural gas will not exceed a particulate matter and PM-10 emission limit of 0.0063 lb/mmBtu based on the Higher Heating Value (HHV) of the natural gas. The facility will verify compliance with this emission limit by stack testing once per permit term. The Department has the right to require further stack testing in order to verify compliance.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.0063 pounds per million Btus
Reference Test Method: EPA RM 5, 201A/201, and 202
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 50: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 50.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: EP001
Process: P3A

Emission Unit: U-00002 Emission Point: EP002
Process: P03

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 50.2:

Compliance Certification shall include the following monitoring:

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, each combustion turbine firing fuel oil will not exceed a sulfur dioxide emission limit of 0.0015 lb/mmBtu. This limit will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup. Following initial testing, the facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 0.0015 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 51: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 51.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005 Emission Point: EP005
 Process: P05

Regulated Contaminant(s):
 CAS No: 007446-09-5 SULFUR DIOXIDE

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the fire pump engine will not exceed a sulfur dioxide emission limit of 0.00483 g/hp-hr. The facility will demonstrate compliance with this limit by using low sulfur fuel. Emission testing will be performed at the request of the Department.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 0.00483 grams per brake
 horsepower-hour

Reference Test Method: EPA Approved Methods

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 52: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 52.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00005 Emission Point: EP005
 Process: P05

Regulated Contaminant(s):
 CAS No: 0NY075-00-5 PM-10
 CAS No: 0NY075-00-0 PARTICULATES

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the fire pump engine will not exceed a particulate matter and PM-10 emission limit of 0.118 g/hp-hr. The facility will demonstrate compliance with this limit by using low sulfur fuel. Emission testing will be performed at the request of the Department.

Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.118 grams per brake
 horsepower-hour
 Reference Test Method: EPA Method 201/201A and 202
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 53: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 53.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

Emission Unit: U-00004 Emission Point: EP004
 Process: P04

Regulated Contaminant(s):
 CAS No: 007446-09-5 SULFUR DIOXIDE

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the emergency generator will not exceed a sulfur dioxide emission limit of 0.00469 g/hp-hr. The facility will demonstrate compliance with this limit by using low sulfur fuel. Emission testing will be performed at the request of the Department.

Parameter Monitored: SULFUR DIOXIDE
 Upper Permit Limit: 0.00469 grams per brake
 horsepower-hour
 Reference Test Method: EPA approved methods
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 54: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 54.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00004 Emission Point: EP004
 Process: P04

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the emergency generator will not exceed a CO emission limit of 0.45 g/hp-hr. The facility will demonstrate compliance with this limit by

Permit ID: 3-3356-00136/00010

Facility DEC ID: 3335600136

using good combustion controls. Emission testing to be performed at the request of the Department.

Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 0.45 grams per brake horsepower-hour
 Reference Test Method: EPA Method 10
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 55: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 55.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00004 Emission Point: EP004
 Process: P04

Emission Unit: U-00005 Emission Point: EP005
 Process: P05

Regulated Contaminant(s):
 CAS No: 007664-93-9 SULFURIC ACID

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the emergency generator and fire pump engine will not exceed a sulfuric acid emission limit of 0.00009 g/hp-hr. The facility will demonstrate compliance with this limit by using low sulfur fuel. Emission testing will be performed at the request of the Department.

Parameter Monitored: SULFURIC ACID
 Upper Permit Limit: 0.00009 grams per brake horsepower-hour
 Reference Test Method: EPA approved methods
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.

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Subsequent reports are due every 6 calendar month(s).

Condition 56: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 56.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00006 Emission Point: EP006
 Process: P06

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the dew point heater will not exceed a CO emission limit of 0.084 lb/mmBtu. The facility will demonstrate compliance with the limit by using good combustion practices. Emission testing will be performed upon request of the Department.

Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 0.084 pounds per million Btus
 Reference Test Method: EPA Method 10
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 57: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 57.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00003 Emission Point: EP003
 Process: P3B

Emission Unit: U-00006 Emission Point: EP006
 Process: P06

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Facility DEC ID: 3335600136

Regulated Contaminant(s):
 CAS No: 007664-93-9 SULFURIC ACID

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the auxiliary boiler and dew point heater will not exceed a sulfuric acid emission limit of 0.0002 lb/mmBtu at all loads. The facility will demonstrate compliance with this limit by using low sulfur fuel. Emissions testing will be required at the request of the Department.

Parameter Monitored: SULFURIC ACID
 Upper Permit Limit: 0.0002 pounds per million Btus
 Reference Test Method: EPA Approved Methods
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 58: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 58.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00003 Emission Point: EP003
 Process: P3B Emission Source: AUX01

Regulated Contaminant(s):
 CAS No: 007664-93-9 SULFURIC ACID

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, each combustion turbine, the duct burners, the auxiliary boiler, and the dew point heater will not fire natural gas with a sulfur content greater than 0.8 grains/100 scf. The sulfur content of the natural gas will be verified through a certification or

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analysis provided by the fuels supplier and monitored by the facility. The facility must keep the records onsite for a minimum of five years and must be made available to the Department upon request.

Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.8 grains per 100 dscf
 Reference Test Method: ASTM 5504
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 59: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 59.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001 Process: P1A	Emission Point: EP001
Emission Unit: U-00001 Process: P2A	Emission Point: EP001
Emission Unit: U-00002 Process: P01	Emission Point: EP002
Emission Unit: U-00002 Process: P02	Emission Point: EP002
Emission Unit: U-00003 Process: P3B	Emission Point: EP003
Emission Unit: U-00006 Process: P06	Emission Point: EP006
Regulated Contaminant(s): CAS No: 007446-09-5	SULFUR DIOXIDE

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, each combustion turbine while firing natural gas (with and without the duct burners), the auxiliary boiler, and the dew point heater

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will not exceed a sulfur dioxide emission limit of 0.0022 lb/mmBtu. The facility will demonstrate compliance with this limit by using low sulfur fuel. The facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: SULFUR DIOXIDE
 Upper Permit Limit: 0.0022 pounds per million Btus
 Reference Test Method: EPA Approved Methods
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 60: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 60.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: EP001
Process: P3A	Emission Source: CT001
Emission Unit: U-00002	Emission Point: EP002
Process: P03	Emission Source: CT002

Regulated Contaminant(s):
 CAS No: 007664-93-9 SULFURIC ACID

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, each combustion turbine while firing fuel oil will not exceed a sulfuric acid mist emission limit of 0.0005 lb/mmBtu. The facility will demonstrate compliance with the emission limit by maintaining compliance with the fuel oil sulfur limit of 0.0015%. The sulfur content of the fuel will be certified by the vendor and monitored by the facility. All records must be kept onsite for a minimum of five years and must be made available to the Department upon request.

Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.0015 percent by weight

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Reference Test Method: ASTM D 2880-71
 Monitoring Frequency: PER DELIVERY
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 61: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 61.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: EP001
Process: P1A	Emission Source: CT001
Emission Unit: U-00002	Emission Point: EP002
Process: P01	Emission Source: CT002

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, the facility will have a heat rate of 7605 Btu/kW-hr (HHV) or less at ISO conditions without duct burner firing to achieve a design thermal efficiency. An initial Heat Rate test was performed to ensure compliance with this value. The Department will also allow the facility to prove compliance by using Certified Fuel Meters and CEMs to perform the annual heat rate test. The Department has the right to require additional testing in order to verify compliance.

Parameter Monitored: HEAT RATE
 Upper Permit Limit: 7605 BTU per kilowatt-hour
 Reference Test Method: Department Approved as Per Description
 Monitoring Frequency: ANNUALLY
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 62: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 62.1:

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The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00004 Emission Point: EP004
Process: P04

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10
CAS No: 0NY075-00-0 PARTICULATES

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, the emergency generator will not exceed a particulate matter and PM-10 emission limit of 0.06 g/hp-hr. The facility will not exceed this limit by using low sulfur fuel. Emission testing will be performed at the request of the Department.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.06 grams per brake horsepower-hour
Reference Test Method: EPA Method 201/201A and 202
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 63: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 63.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00003 Emission Point: EP003
Process: P3B Emission Source: AUX01

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

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, the auxiliary boiler firing natural gas will not exceed a CO emission limit of 0.0824 lb/mmBtu based upon the Higher Heating Value (HHV) of the natural gas. The facility will use vendor emission

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guarantees and/or stack testing to ensure compliance with the emission limit, as required by the Department.

Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 0.0824 pounds per million Btus
 Reference Test Method: 40 CFR Part 60, Appendix A, Method 10
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 64: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 64.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001 Process: P1A	Emission Point: EP001 Emission Source: CT001
Emission Unit: U-00001 Process: P2A	Emission Point: EP001 Emission Source: CT001
Emission Unit: U-00002 Process: P01	Emission Point: EP002 Emission Source: CT002
Emission Unit: U-00002 Process: P02	Emission Point: EP002 Emission Source: CT002
Regulated Contaminant(s): CAS No: 0NY075-00-5	PM-10
CAS No: 0NY075-00-0	PARTICULATES

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, each combustion turbine with and without the duct burner will not exceed a particulate matter and PM-10 emission limit of 0.0073 lb/mmBtu based upon Higher Heating Value (HHV) of the natural gas. The facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.0073 pounds per million Btus
 Reference Test Method: EPA RM 5, 201/201A or 202
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 65: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 65.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: EP001
 Process: P1A

Emission Unit: U-00001 Emission Point: EP001
 Process: P2A

Emission Unit: U-00002 Emission Point: EP002
 Process: P01

Emission Unit: U-00002 Emission Point: EP002
 Process: P02

Regulated Contaminant(s):
 CAS No: 007664-93-9 SULFURIC ACID

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, each combustion turbine while firing natural gas will not exceed the sulfuric acid emission limit of 0.0007 lb/mmBtu. This limit will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup. Following initial testing, the facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.0007 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 66: Compliance Certification
Effective for entire length of Permit

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Applicable Federal Requirement:6 NYCRR 231-7.6

Item 66.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: EP001
Process: P3A	Emission Source: CT001

Emission Unit: U-00002	Emission Point: EP002
Process: P03	Emission Source: CT002

Regulated Contaminant(s):

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

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To satisfy BACT requirements, each combustion turbine firing fuel oil will not exceed a particulate matter and PM-10 emission limit of 0.0368 lb/mmBtu based upon Higher Heating Value (HHV) of the fuel oil. The facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.0368 pounds per million Btus
 Reference Test Method: EPA RM 5, 201/201A or 202
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 67: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 67.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: EP001
Process: P1A	Emission Source: CT001

Emission Unit: U-00001	Emission Point: EP001
Process: P3A	Emission Source: CT001

Emission Unit: U-00002	Emission Point: EP002
Process: P01	Emission Source: CT002

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Emission Unit: U-00002 Emission Point: EP002
 Process: P03 Emission Source: CT002

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

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

To satisfy BACT requirements, each combustion turbine firing natural gas (without duct burners) or fuel oil will not exceed a CO emission limit of 2.0 ppmvd (corrected to 15% O₂) based upon the Higher Heating Value (HHV) of the natural gas and fuel oil. This emission limit applies at all loads except during startup, shutdown, and fuel switching. The facility will use CEMs to monitor CO stack emissions.

Manufacturer Name/Model Number: Teledyne T300M
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 2.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR 60 Appendices B and F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 68: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 68.1:

The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: EP001
 Process: P2A Emission Source: CT001

Emission Unit: U-00002 Emission Point: EP002
 Process: P02 Emission Source: CT002

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

Item 68.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

To satisfy BACT requirements, each combustion turbine (with duct burner) will not exceed a CO emission limit of 3.4 ppmvd (corrected to 15% O₂) based upon the Higher Heating Value (HHV) of the natural gas. This emission limit applies at all loads except during startup, shutdown, and fuel switching. The facility will use CEMs to monitor CO stack emissions.

Manufacturer Name/Model Number: Teledyne T300M

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 3.4 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendices B and F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

Condition 69: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-7.6

Item 69.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005

Emission Point: EP005

Process: P05

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the fire pump engine will not exceed a CO emission limit of 1.42 g/hp-hr. The facility will demonstrate compliance with this limit by using good combustion practices. Emission testing will be performed at the request of the Department.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 1.42 grams per brake horsepower-hour

Reference Test Method: EPA Method 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

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Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 70: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-7.6

Item 70.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00006 Emission Point: EP006
Process: P06

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10
CAS No: 0NY075-00-0 PARTICULATES

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To satisfy BACT requirements, the dew point heater will not exceed a particulate matter and PM-10 emission limit of 0.0076 lb/mmBtu. This emission limit will be achieved by using low sulfur fuel. The facility will demonstrate compliance with the emission limit by stack testing once per permit term. The Department has the right to require further testing in order to verify compliance.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.0076 pounds per million Btus
Reference Test Method: EPA Method 201/201A and 202
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 71: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-11.1

Item 71.1:

The Compliance Certification activity will be performed for the Facility.

Item 71.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner and/or operator must develop start-up, shutdown, and fuel switching emission limits for NO_x, CO, and NH₃ for the combustion turbines.

These limits will be based on 15 start-ups, 15 shutdowns, and 15 fuel switches. If 15 start-ups, 15 shutdowns, and/or 15 fuel switches do not occur within one year of commercial operation of the facility, the owner and/or operator will be required to submit start-up, shutdown and fuel switch data, with an application for permit modification once the required start-ups, shutdowns, and/or fuel switches occur.

If the required start-ups, shutdowns, and/or fuel switches do not occur prior to the initial Title V permit renewal application due date of 18 months prior to the Title V permit expiration date, the owner and/or operator will be required to develop and submit start-up, shutdown and fuel switch emission limits as part of the renewal application.

These limits will be based on the available start-up, shutdown and fuel switch data at this due date regardless of the number of occurrences of start-ups, shutdowns, and/or fuel switches.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 72: EPA Region 2 address.
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 72.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

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determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

(b) For each affected unit that performs annual performance tests in accordance with §60.4340(a), you must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 76: Reporting requirements
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.4395, NSPS Subpart KKKK

Item 76.1:
 This Condition applies to:

Emission Unit: U00001

Emission Unit: U00002

Item 76.2: All reports required under §60.7(c) must be postmarked by the 30th day following the end of each 6-month period.

Condition 77: Applicability
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 77.1:
 Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

Condition 78: Facility Subject to Title IV Acid Rain Regulations and Permitting
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 72

Item 78.1: This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.

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Condition 79: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 97.406, Subpart AAAAA

Item 79.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.
- (2) The facility, and the designated representative, of each TR NO_x Annual source (facility) and each TR NO_x Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.
- (3) The emissions data determined shall be used to calculate allocations of TR NO_x Annual allowances and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual facility and each TR NO_x Annual Unit at the facility shall hold, in

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the facilities compliance account, TR NOx Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 80: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 97.606, Subpart CCCCC

Item 80.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618 of Subpart CCCCC. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR SO2 Group 1 source (facility) and each TR SO2 Group 1 Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635 of Subpart CCCCC and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

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(3) The emissions data determined shall be used to calculate allocations of TR SO2 Group 1 allowances and to determine compliance with the TR SO2 Group 1 emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO2 Group 1 facility and each TR SO2 Group 1 Unit at the facility shall hold, in the facilities compliance account, TR SO2 Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO2 emissions for such control period from all TR SO2 Group 1 Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 81: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 97, Subpart EEEEE

Item 81.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 81.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.813 through 97.818 of Subpart EEEEE. The facility shall notify the Department of this representative (and alternate) with contact information upon issuance of this permit and when any changes are made to the representative (or alternate) or their contact information.

(2) The facility, and the designated representative, of each CSAPR NOx Ozone Season source (facility) and each CSAPR NOx Ozone Season Unit at the facility must comply with the monitoring, reporting, and recordkeeping requirements of §§97.830 through 97.835 of Subpart EEEEE and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality assurance of the data; and certification of

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compliance of such data. Data from continuous emission monitoring equipment are to be submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are to be submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of CSAPR NOx Ozone Season allowances and to determine compliance with the CSAPR NOx Ozone Season emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NOx Ozone Season facility and each CSAPR NOx Ozone Season Unit at the facility shall hold, in the facilities compliance account, CSAPR NOx Ozone Season allowances available for deduction for such control period under §97.824(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

****** Emission Unit Level ******

Condition 82: Emission Point Definition By Emission Unit Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 82.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00001

Emission Point: EP001

Height (ft.): 275 Diameter (in.): 228
 NYTMN (km.): 4584.693 NYTME (km.): 546.98

Item 82.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00002

Emission Point: EP002

Height (ft.): 275 Diameter (in.): 228
 NYTMN (km.): 4584.655 NYTME (km.): 546.991

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Item 82.3:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00003

Emission Point: EP003

Height (ft.): 275 Diameter (in.): 228
 NYTMN (km.): 4584.655 NYTME (km.): 546.991

Item 82.4:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00004

Emission Point: EP004

Height (ft.): 50 Diameter (in.): 18
 NYTMN (km.): 4584.651 NYTME (km.): 547.129

Item 82.5:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00005

Emission Point: EP005

Height (ft.): 50 Diameter (in.): 6
 NYTMN (km.): 4584.58 NYTME (km.): 546.958

Item 82.6:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00006

Emission Point: EP006

Height (ft.): 50 Diameter (in.): 6
 NYTMN (km.): 4584.669 NYTME (km.): 546.815

**Condition 83: Process Definition By Emission Unit
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 83.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: P1A

Source Classification Code: 2-01-002-01

Process Description:

Process P1A represents natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

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Emission Source/Control: CT001 - Combustion
 Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN01 - Control
 Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 83.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001
 Process: P2A Source Classification Code: 2-01-002-01
 Process Description:

Process P2A represents combined natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine and natural gas firing with in the duct burner. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Emission Source/Control: CT001 - Combustion
 Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DB001 - Combustion
 Design Capacity: 500 million Btu per hour

Emission Source/Control: DLN01 - Control
 Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 83.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001
 Process: P3A Source Classification Code: 2-01-001-01
 Process Description:

Process 3A represents fuel oil firing in the Class-F combustion turbine. Dry low-NOx combustion technology, steam or water injection, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Emission Source/Control: CT001 - Combustion

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Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN01 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: ST101 - Control
Control Type: STEAM OR WATER INJECTION

Item 83.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
Process: P01 Source Classification Code: 2-01-002-01
Process Description:

Process P01 represents natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Emission Source/Control: CT002 - Combustion
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN02 - Control
Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY02 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 83.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
Process: P02 Source Classification Code: 2-01-002-01
Process Description:

Process P02 represents combined natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine and natural gas firing with the duct burner. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Emission Source/Control: CT002 - Combustion
Design Capacity: 2,234 million Btu per hour

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Emission Source/Control: DB002 - Combustion
 Design Capacity: 500 million Btu per hour

Emission Source/Control: DLN02 - Control
 Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY02 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 83.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
 Process: P03 Source Classification Code: 2-01-001-01
 Process Description:
 Process P03 represents fuel oil firing in the Siemens SGT6-5000 Class-F combustion technology. Dry low-NOx combustion technology, steam or water injection, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Emission Source/Control: CT002 - Combustion
 Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN02 - Control
 Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY02 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: ST102 - Control
 Control Type: STEAM OR WATER INJECTION

Item 83.7:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003
 Process: P3B Source Classification Code: 1-02-006-02
 Process Description:
 Process P3B represents natural gas firing in the auxiliary boiler.

Emission Source/Control: AUX01 - Combustion
 Design Capacity: 48.1 million Btu per hour

Emission Source/Control: FGR01 - Control

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Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: LNB01 - Control

Control Type: LOW NOx BURNER

Item 83.8:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00004

Process: P04

Source Classification Code: 2-01-002-01

Process Description:

Process P04 represents the emergency generator firing on diesel fuel.

Emission Source/Control: EG001 - Combustion

Design Capacity: 10.08 million BTUs per hour

Item 83.9:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00005

Process: P05

Source Classification Code: 2-01-002-01

Process Description:

Process P05 represents one fire pump engine operating on diesel fuel.

Emission Source/Control: FP001 - Combustion

Design Capacity: 1.96 million Btu per hour

Item 83.10:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00006

Process: P06

Source Classification Code: 2-01-002-01

Process Description:

Process P06 represents one 9.0 mmBtu/hr dew point heater with two fuel gas burners operating on natural gas.

Emission Source/Control: FGH01 - Combustion

Design Capacity: 9 million Btu per hour

Emission Source/Control: FHG02 - Combustion

Design Capacity: 5.02 million Btu per hour

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: Emergency Defense - 6 NYCRR 201-1.5

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 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

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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 applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 84: Contaminant List
Effective for entire length of Permit

Applicable State Requirement: ECL 19-0301

Item 84.1:

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

CAS No: 000124-38-9
Name: CARBON DIOXIDE

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

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

CAS No: 007664-41-7
Name: AMMONIA

CAS No: 007664-93-9
Name: SULFURIC ACID

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

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

CAS No: 0NY075-02-5

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Name: PM 2.5

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY750-00-0

Name: CARBON DIOXIDE EQUIVALENTS

CAS No: 0NY998-00-0

Name: VOC

**Condition 85: Malfunctions and start-up/shutdown activities
Effective for entire length of Permit****Applicable State Requirement: 6 NYCRR 201-1.4****Item 85.1:**

- (a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.
- (b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, 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 department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.
- (c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.
- (d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.
- (e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

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**Condition 86: CO2 Budget Trading Program - Excess emission requirements
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 242-1.5

Item 86.1:

The owners and operators of a CO2 budget source that has excess emissions in any control period shall:

- (1) forfeit the CO2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO2 offset allowances may not be used to cover any part of such excess emissions; and
- (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).

**Condition 87: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 242-1.5

Item 87.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 87.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators and, to the extent applicable, the CO2 authorized account representative of each CO2 budget source and each CO2 budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO2 requirements:

- (1) The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall hold CO2 allowances available for compliance deductions under Section 242-6.5, as of the CO2 allowance transfer deadline, in the source's compliance account in an amount not less than the total CO2 emissions for the control period from all CO2 budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.
- (2) Each ton of CO2 emitted in excess of the CO2 budget emissions limitation shall constitute a separate violation of this Part and applicable state law.
- (3) A CO2 budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences

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operation.

(4) CO2 allowances shall be held in, deducted from, or transferred among CO2 Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.

(5) A CO2 allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO2 allowance was allocated. A CO2 offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).

(6) A CO2 allowance under the CO2 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO2 in accordance with the CO2 Budget Trading Program. No provision of the CO2 Budget Trading Program, the CO2 budget permit application, or the CO2 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.

(7) A CO2 allowance under the CO2 Budget Trading Program does not constitute a property right.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 88: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 242-1.5

Item 88.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 88.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the

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end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO2 Budget Trading Program.

(iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.

The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 Budget Trading Program, including those under Subpart 242-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 89: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR Subpart 242-4

Item 89.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 89.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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Annual Compliance Certification Report:

(a) For each control period in which a CO₂ budget source is subject to the CO₂ requirements of subdivision 242-1.5(c) of this Part, CO₂ authorized account representative of the source shall submit to the department by March 1st following the relevant control period, a compliance certification report. The control period is a three-calendar-year time period.

(b) The compliance certification report shall include the following elements:

(1) identification of the source and each CO₂ budget unit at the source;

(2) as an option, the serial numbers of the CO₂ allowances that are to be deducted from the source's compliance account under section 242-6.5 of this Part for the control period, including the serial numbers of any CO₂ offset allowances that are to be deducted subject to the limitations of section 242-6.5(a)(3) of this Part; and

(3) the compliance certification under subdivision (c) of this section (below).

(c) In the compliance certification report the CO₂ authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO₂ budget units at the source in compliance with the CO₂ Budget Trading Program, whether the source and each CO₂ budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO₂ Budget Trading Program, including:

(1) whether the source was operated in compliance with the CO₂ requirements of section 242-1.5(c) of this Part;

(2) whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO₂ emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO₂ emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported

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in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;

(4) whether the facts that form the basis for certification under Subpart 242-8 of each monitor at each unit at the source, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 242-8 of this Part, if any, have changed; and

(5) if a change is required to be reported under paragraph (c)(4) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 90: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 242-8.5

Item 90.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 90.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

(a) General provisions. The CO2 authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO2 budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

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(c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows:

(1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

(3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications;

(ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO₂ emissions; and

(iii) the CO₂ concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO₂ emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.

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Subsequent reports are due every 3 calendar month(s).

**Condition 91: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 251.3 (a)

Item 91.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Regulated Contaminant(s):
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 91.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility is required to not exceed an emission rate of 925 pounds of CO₂ per MW hour gross electrical output (output-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO₂ emissions over the relevant 12-month period by the annual total (gross) MW generated (output-based limit).

Manufacturer Name/Model Number: Teledyne T300M

Upper Permit Limit: 925 pounds per megawatt hour

Reference Test Method: 40 CFR 60, Appendix A, Method 6A

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 92: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 251.6 (d)

Item 92.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 000124-38-9 CARBON DIOXIDE

Item 92.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator that utilizes vendor certified fuel receipts to monitor the Btu content of a fuel must maintain these receipts in a bound log book. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

****** Emission Unit Level ******

Condition 93: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 251.3 (a)

Item 93.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Emission Point: EP001

Process: P1A

Emission Source: CT001

Regulated Contaminant(s):

CAS No: 000124-38-9

CARBON DIOXIDE

Item 93.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Owners or operators of boilers that are permitted to fire greater than 70 percent fossil fuel, combined cycle combustion turbines, or stationary internal combustion engines that fire only gaseous fuel, except for those emission sources directly attached to a gasifier, are required to meet an emission rate of 120 pounds of CO₂ per million Btu of input (input-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO₂ emissions over the relevant 12-month period by the annual total Btus (input-based limit) fired. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

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Manufacturer Name/Model Number: CO2 Continuous Monitor
 Parameter Monitored: CARBON DIOXIDE
 Upper Permit Limit: 120 pounds per million Btus
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 94: Compliance Demonstration
 Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 251.3 (a)

Item 94.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002	Emission Point: EP002
Process: P01	Emission Source: CT002

Regulated Contaminant(s):
 CAS No: 000124-38-9 CARBON DIOXIDE

Item 94.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Owners or operators of boilers that are permitted to fire greater than 70 percent fossil fuel, combined cycle combustion turbines, or stationary internal combustion engines that fire only gaseous fuel, except for those emission sources directly attached to a gasifier, are required to meet an emission rate of 120 pounds of CO2 per million Btu of input (input-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO2 emissions over the relevant 12-month period by the annual total Btus (input-based limit) fired. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Manufacturer Name/Model Number: CO2 Continuous Monitor
 Parameter Monitored: CARBON DIOXIDE
 Upper Permit Limit: 120 pounds per million Btus
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

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Facility Identification Data

Name: CPV VALLEY ENERGY CENTER
Address: 3330 ROUTE 6
MIDDLETOWN, NY 10940

Owner/Firm

Name: CPV VALLEY LLC
Address: 8403 Colesville Rd Ste 915
Silver Spring, MD 20910, USA
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:
Name: CHRISTOPHER M HOGAN
Address: 625 BROADWAY
ALBANY, NY 12233
Phone:5184029151

Division of Air Resources:
Name: ALYSSA CARBONE
Address: NYSDEC - REGION 3
21 S Putt Corners Rd
New Paltz, NY 12561-1620
Phone:8452563058

Air Permitting Facility Owner Contact:
Name: DONALD ATWOOD
Address: 50 BRAINTREE HILL OFFICE PARK STE 300
BRAINTREE, MA 02184
Phone:7818482202

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

CPV Valley, LLC owns and operates the CPV Valley Energy Center, a 680 megawatt (MW) natural gas-fired electric generating facility. The CPV Valley Energy Center will use ultra-low sulfur distillate oil for back-up for reliability purposes. The CPV facility will use "combined cycle" generation technology and will be comprised of two combined-cycle units, each consisting of a combustion turbine generator (CTG), a Heat Recovery Steam Generator (HRSG) with supplemental duct firing, and a steam turbine generator (STG). Auxiliary equipment includes a low nitrogen oxide (NOx) natural gas-fired auxiliary boiler, needed



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to keep the HRSGs warm during periods of turbine shutdown and to provide sealing steam during startups. The stacks for the facility are 275 feet tall. The project is located on an approximately 122-acre site in Wawayanda, Orange County, New York. The project activities are located on an approximately 21-acre area that is bounded to the east by State Route 17M/6; to the north by State Route 6 and to the south by Interstate 84.

Attainment Status

CPV VALLEY ENERGY CENTER is located in the town of WAWAYANDA in the county of ORANGE. 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*	MODERATE 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 CPV Valley Energy Center consists of two dual fuel-fired Siemens F-class combustion turbine generators (CTGs), with a nominal heat input of 2,234 mmBtu/hr, each when operating on natural gas at base load, two 500 mmBtu/hr supplementary natural gas-fired duct burners, two heat recovery steam generators (HRSGs) and a single steam turbine generator (STG). Supporting ancillary equipment includes a 48.1 mmBtu/hr natural gas fired auxiliary boiler, a 10.08 mmBtu/hr ULSD emergency generator, one dew point heater with two 4.48 mmBtu/hr fuel gas burners and a 1.96 mmBtu/hr ULSD fire water pump engine. The CTGs are fueled by natural gas. Ultra-low sulfur diesel may be used as a backup fuel for up to 720 hours per year per turbine. The duct burners will fire natural gas exclusively. The CTGs utilize dry low-NOx (DLN) combustors for gas firing and water injection for control of nitrogen oxides (NOx) when firing ultra-low sulfur diesel. Selective Catalytic Reduction (SCRs) systems are used to further control NOx emissions. Oxidation catalysts and efficient combustion controls will be used to control emissions of carbon monoxide (CO) as well as volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). Emissions of SO2 and PM/PM-10 are minimized through the use of pipeline natural gas and ULSD as backup, as well as efficient combustion controls. Upon leaving the SCRs, turbine gases are directed to individual stacks at 275 feet above grade with a flue diameter of 19 feet. In addition, CTGs inlet air will be cooled using an evaporative cooler when ambient temperatures are high, to improve CTGs efficiency.

The facility has installed continuous emissions monitors (CEMs) on the CTGs for the following pollutants: NOx, CO, NH3, and CO2. The facility maintains these monitors in accordance with manufacturers specifications.



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The auxiliary boiler employs low-NOx burners (LNB) and flue gas recirculation (FGR) to control emissions of NOx. The auxiliary boiler will operate as needed for any start up condition to keep the HRSG warm during periods of turbine shutdown and to provide sealing steam to the steam turbine in the case of warm and hot startups. Total boiler hours for the facility will be limited to 2,000 hours per year.

The dew point fuel gas heater employs two forced draft burners to reduce NOx emissions. The unit will heat the natural gas to optimum firing temperature. The dew point heaters is proposed to operate up to 8,760 hours per year.

The emergency diesel fire pump will provide on-site fire fighting capability independent of the utility grid. The emergency diesel generator will be operated only for testing and to maintain operational readiness or if needed for emergency operation. Each emergency engine will be allowed to operate for up to 500 hours per year.

A 1.3 megawatt or similar emergency mobile back up may be used only for testing and to maintain operational readiness or if needed for emergency operation.

The five space heaters are used inside generation buildings for temperature regulation.

The 930,900 gallon fuel oil storage tank, 600 gallon emergency diesel generator storage tank, and 500 gallon emergency diesel fire pump storage tanks are maintained at the facility.

Permit Structure and Description of Operations

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

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

CPV VALLEY ENERGY CENTER is defined by the following emission unit(s):

Emission unit U00002 - One Siemens SGT6-5000 F-Class combustion turbine which has a nominal rating of 1,998 mmBtu/hr at 51 °F (2234 mmBtu/hr at -5 °F) on natural gas and (2,145 mmBtu/hr at -5 °F) on fuel oil (<0.0015% sulfur). The turbine is equipped with dry low-NOx combustors, steam injection, SCR and oxidation catalyst emission controls. This emission unit also contains a natural gas-fired duct burner rated at a maximum capacity of 500 mmBtu/hr.



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Emission unit U00002 is associated with the following emission points (EP):
EP002

Process: P01 Process P01 represents natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Process: P02 Process P02 represents combined natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine and natural gas firing with the duct burner. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Process: P03 Process P03 represents fuel oil firing in the Siemens SGT6-5000 Class-F combustion technology. Dry low-NOx combustion technology, steam or water injection, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Emission unit U00003 - One auxiliary boiler with a nominal rating of 48.1 mmBtu/hr that will fire natural gas exclusively. The boiler hours will be limited to 2,000 hours per year. The boiler will operate primarily to assist with startups and shutdowns of the turbine.

Emission unit U00003 is associated with the following emission points (EP):
EP003

Process: P3B Process P3B represents natural gas firing in the auxiliary boiler.

Emission unit U00004 - Emergency Diesel Generator operating less than 500 hours per year.

Emission unit U00004 is associated with the following emission points (EP):
EP004

Process: P04 Process P04 represents the emergency generator firing on diesel fuel.

Emission unit U00005 - Emergency Fire Pump Diesel Engine.

Emission unit U00005 is associated with the following emission points (EP):
EP005

Process: P05 Process P05 represents one fire pump engine operating on diesel fuel.

Emission unit U00006 - One Dew Point Heater with Two Fuel Gas Burners.

Emission unit U00006 is associated with the following emission points (EP):
EP006

Process: P06 Process P06 represents one 9.0 mmBtu/hr dew point heater with two fuel gas burners

Emission unit U00001 - One Siemens SGT6-5000 F-Class combustion turbine which has a nominal rating of 1,998 mmBtu/hr at 51 °F (2,234 mmBtu/hr at -5 °F) on natural gas and (2,145 mmBtu/hr at -5 °F)



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on fuel oil (<0.0015% sulfur). The turbine is equipped with dry low-NOx combustors, steam injection, SCR and oxidation catalyst emission controls. This emission unit also contains a natural gas-fired duct burner rated at a nominal capacity of 500 mmBtu/hr.

Emission unit U00001 is associated with the following emission points (EP):
EP001

Process: P1A Process P1A represents natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Process: P2A Process P2A represents combined natural gas firing in the Siemens SGT6-5000 Class-F combustion turbine and natural gas firing with in the duct burner. Dry low-NOx combustion technology, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Process: P3A Process 3A represents fuel oil firing in the Class-F combustion turbine. Dry low-NOx combustion technology, steam or water injection, selective catalytic reduction (SCR), and oxidation catalyst will be used to minimize emissions of NOx, CO, and VOC.

Title V/Major Source Status

CPV VALLEY ENERGY CENTER is subject to Title V requirements. This determination is based on the following information:

CPV Valley Energy Center is a major facility and is subject to Title V Requirements. This determination is based on the following information:

This facility has the PTE values above major source thresholds for the following pollutants: NOx, VOC, and CO.

The facility PTE values for the pollutants listed above are as follows:

NOx: 183.2 tpy
VOC: 63.5 tpy
CO: 341.9 tpy

Program Applicability

The following chart summarizes the applicability of CPV VALLEY ENERGY CENTER with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	YES
NESHAP (40 CFR Part 61)	NO



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NESHAP (MACT - 40 CFR Part 63)	YES
NSPS	YES
TITLE IV	YES
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 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, 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, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 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



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

SCC Code

Description

1-02-006-02

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL
INDUSTRIAL BOILER - NATURAL GAS
10-100 MMBtu/Hr

2-01-001-01

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

2-01-002-01

INTERNAL COMBUSTION ENGINES - ELECTRIC
GENERATION
ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE
- NATURAL GAS
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



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contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE 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	209582			
000124-38-9	CARBON DIOXIDE	4350405911			
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS	4356034011			
000630-08-0	CARBON MONOXIDE	683998			
007439-92-1	LEAD	40			
0NY210-00-0	OXIDES OF NITROGEN	366386			
0NY075-00-0	PARTICULATES	190000			
0NY075-02-5	PM 2.5	190000			
0NY075-00-5	PM-10	190000			
007446-09-5	SULFUR DIOXIDE	82764			
007664-93-9	SULFURIC ACID	25166			
0NY100-00-0	TOTAL HAP	27880			
0NY998-00-0	VOC	126906			

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



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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 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



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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 requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

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

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

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

Item 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)



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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

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



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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	84	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-A.4	72	General provisions - Address
FACILITY	40CFR 60-IIII	73	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
FACILITY	40CFR 60-KKKK	74	Stationary Combustion Turbine NSPS
FACILITY	40CFR 60-KKKK.4375	75	Stationary Combustion Turbine NSPS - report requirement for excess emissions and monitor downtime
FACILITY	40CFR 60-KKKK.4395	76	Stationary Combustion Turbine NSPS - report submittal requirement
FACILITY	40CFR 63-ZZZZ	77	Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 72	78	Permits regulation
FACILITY	40CFR 82-F	20	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 97-AAAAA.406	79	Transport Rule (TR) NOx Annual Trading Program Standard Requirements
FACILITY	40CFR 97-CCCCC.606	80	Transport Rule (TR) SO2 Group 1 Trading Program Standard Requirements
FACILITY	40CFR 97-EEEEEE	81	CSAPR NOx Ozone Season
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10, 21	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	85	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of



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FACILITY	6NYCRR 201-3.2(a)	13	collected contaminants to the air
FACILITY	6NYCRR 201-3.3(a)	14	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-6	22, 23, 24, 25, 82, 83	Trivial Activities - proof of eligibility 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	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)	3	Recordkeeping and Reporting of
FACILITY	6NYCRR 201-6.4(c)(2)	4	Compliance Monitoring Records of
FACILITY	6NYCRR 201- 6.4(c)(3)(ii)	5	Monitoring, Sampling and Measurement Reporting
FACILITY	6NYCRR 201-6.4(d)(4)	26	Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(e)	6	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(f)(6)	17	Compliance Certification
FACILITY	6NYCRR 201-7	27	Off Permit Changes Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	29	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2(h)	30	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 227-1.3(a)	31	Smoke Emission Limitations.
FACILITY	6NYCRR 227-2.4(d)	32	Small boilers, small combustion turbines, and small stationary internal combustion engines.
FACILITY	6NYCRR 231-11.1	71	Permit requirements for new major facilities, NSR major mods, and netting
FACILITY	6NYCRR 231-5.3	33	Permit content and terms of issuance
FACILITY	6NYCRR 231-5.4	34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45	Lowest achievable emission rate (LAER)
FACILITY	6NYCRR 231-5.5	46, 47	Emission offset requirements



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FACILITY	6NYCRR 231-7.5	48	Permit content and terms of issuance
FACILITY	6NYCRR 231-7.6	49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70	Best available control technology (BACT)
FACILITY	6NYCRR 242-1.5	86, 87, 88	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 242-4	89	CO2 Budget Trading Program - Compliance certification
FACILITY	6NYCRR 242-8.5	90	CO2 Budget Trading Program - Recordkeeping and reporting
FACILITY	6NYCRR 251.3(a)	91	CO2 Emission Limit
U-00001/EP001/P1A/CT001	6NYCRR 251.3(a)	93	CO2 Emission Limit
U-00002/EP002/P01/CT002	6NYCRR 251.3(a)	94	CO2 Emission Limit
FACILITY	6NYCRR 251.6(d)	92	Vendor Certified Fuel Receipts

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



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

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (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



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instrumentation, and copies of all reports required by the permit.

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) (4)

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 211.2

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

6 NYCRR 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



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repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, CPV VALLEY ENERGY CENTER has been determined to be subject to the following regulations:

40 CFR 60.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.4375

This citation states the reporting requirements of Subpart KKKK.

40 CFR 60.4395

This section provides the report submittal requirements of this regulation.

40 CFR 97.406

This condition provides the general requirements for implementing EPA's Transport Rule (TR) 40 CFR Part 97, Subpart AAAAA; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of Nitrogen Oxide (NOx) and to hold TR annual NOx allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR 97.606

This condition provides the general requirements for implementing EPA's Transport Rule (TR) 40 CFR Part 97, Subpart CCCCC; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of sulfur dioxide (SO2) annually and to hold TR annual SO2 allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR Part 60, Subpart IIII

This regulation defines performance standards for compression ignition stationary



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reciprocating internal combustion engines.

40 CFR Part 60, Subpart KKKK

This regulation defines performance standards for stationary combustion turbines.

40 CFR Part 63, Subpart ZZZZ

This regulation defines performance standards for stationary reciprocating internal combustion engines

40 CFR Part 72

In order to reduce acid rain in the U.S. and Canada, Title IV of the Clean Air Act Amendments of 1990 requires the establishment of a program to reduce emissions of SO₂ and NO_x (sulfur dioxide and oxides of nitrogen). Fossil fuel burning electric utility companies are a major source of these contaminants in the US. These sources were regulated in a phased approach. Phase I, which began in 1995, requires 110 of the higher-emitting utility plants in the eastern and Midwest states to meet intermediate SO₂ emission limitations. Phase II, which began in 2000, tightens the emission limitations and expands the coverage to most fossil fuel burning utilities. The utilities are given "allowances" which is a limited authorization to emit one ton of SO₂. The utilities are required to limit SO₂ emissions to the number of allowances they hold. Some can benefit however by reducing their emissions and selling their excess allowances. Part 72 contains the means of implementing this portion of Title IV of the Clean Air Act.

40 CFR Part 97, Subpart EEEEE

40 CFR Part 97 Subpart EEEEE the NO_x Ozone Season Cross State Air Pollution Rule (CSAPR) is a regional (22 state) cap and trade program designed to reduce NO_x emissions during the ozone season (May - September) for large fossil fuel fired electric generating units that have a nameplate capacity of greater than 25 megawatts electrical and produce electricity for sale.

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 227-2.4 (d)

This section includes NO_x RACT requirements for small boilers, small combustion turbines, and small



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stationary internal combustion engines.

6 NYCRR 231-11.1

This section contains the permit requirements for new major facilities, NSR major modifications, and netting for this Part.

6 NYCRR 231-5.3

This section states what an applicant's permit must and will contain for conditions.

6 NYCRR 231-5.4

This section outlines what LAER is and how it is determined.

6 NYCRR 231-5.5

This section states what the emission offset requirements are for a facility subject to this Subpart.

6 NYCRR 231-7.5

This section states what an applicant's permit must and will contain for conditions.

6 NYCRR 231-7.6

This section outlines what BACT is and how it is determined.

6 NYCRR 242-1.5

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

6 NYCRR 242-8.5

This regulation requires the CO₂ authorized account representative to comply with all



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applicable recordkeeping and reporting requirements in section 242-8.5, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the certification requirements of section 242-2.1(e) of this Part.

6 NYCRR 251.3 (a)

This subdivision contains the emission limit requirements for CO2 from boilers that are permitted to fire greater than 70 percent fossil fuel, combined cycle combustion turbines, or stationary internal combustion engines that fire only gaseous fuel.

6 NYCRR 251.6 (d)

This subdivision sets the requirements for the maintenance of Vendor certified fuel receipts.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is

6 NYCRR Subpart 242-4

This citation requires that an Annual Compliance Certification report be submitted by March 1st, on an annual basis, certifying compliance with the CO2 Budget Trading Program.

Compliance Certification

Summary of monitoring activities at CPV VALLEY ENERGY CENTER:

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

FACILITY	75	record keeping/maintenance procedures
FACILITY	79	record keeping/maintenance procedures
FACILITY	80	record keeping/maintenance procedures
FACILITY	81	record keeping/maintenance procedures
FACILITY	21	continuous emission monitoring (cem)
FACILITY	23	record keeping/maintenance procedures
FACILITY	24	monitoring of process or control device parameters as surrogate

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FACILITY	25	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	28	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
FACILITY	30	work practice involving specific operations
FACILITY	31	monitoring of process or control device parameters as surrogate
FACILITY	32	record keeping/maintenance procedures
FACILITY	71	record keeping/maintenance procedures
FACILITY	33	record keeping/maintenance procedures
FACILITY	34	intermittent emission testing
FACILITY	35	monitoring of process or control device parameters as surrogate
FACILITY	36	continuous emission monitoring (cem)
FACILITY	37	continuous emission monitoring (cem)
FACILITY	38	monitoring of process or control device parameters as surrogate
FACILITY	39	monitoring of process or control device parameters as surrogate
FACILITY	40	monitoring of process or control device parameters as surrogate
FACILITY	41	monitoring of process or control device parameters as surrogate
FACILITY	42	monitoring of process or control device parameters as surrogate
FACILITY	43	intermittent emission testing
FACILITY	44	intermittent emission testing
FACILITY	45	intermittent emission testing
FACILITY	46	record keeping/maintenance procedures
FACILITY	47	record keeping/maintenance procedures
FACILITY	48	record keeping/maintenance procedures
FACILITY	49	intermittent emission testing
FACILITY	50	intermittent emission testing
FACILITY	51	monitoring of process or control device parameters as surrogate
FACILITY	52	monitoring of process or control device parameters as surrogate
FACILITY	53	monitoring of process or control device parameters as surrogate
FACILITY	54	monitoring of process or control device parameters as surrogate
FACILITY	55	monitoring of process or control device parameters as surrogate
FACILITY	56	monitoring of process or control device parameters as surrogate
FACILITY	57	monitoring of process or control device parameters as surrogate
FACILITY	58	monitoring of process or control device parameters as surrogate
FACILITY	59	monitoring of process or control device parameters as surrogate
FACILITY	60	monitoring of process or control device parameters as surrogate
FACILITY	61	intermittent emission testing
FACILITY	62	intermittent emission testing
FACILITY	63	intermittent emission testing
FACILITY	64	intermittent emission testing
FACILITY	65	intermittent emission testing
FACILITY	66	intermittent emission testing
FACILITY	67	continuous emission monitoring (cem)
FACILITY	68	continuous emission monitoring (cem)
FACILITY	69	monitoring of process or control device parameters as surrogate
FACILITY	70	monitoring of process or control device parameters



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		as surrogate
FACILITY	87	record keeping/maintenance procedures
FACILITY	88	record keeping/maintenance procedures
FACILITY	89	record keeping/maintenance procedures
FACILITY	90	record keeping/maintenance procedures
FACILITY	91	continuous emission monitoring (cem)
U-00001/EP001/P1A/CT001	93	continuous emission monitoring (cem)
U-00002/EP002/P01/CT002	94	continuous emission monitoring (cem)
FACILITY	92	record keeping/maintenance procedures

Basis for Monitoring
6 NYCRR Part 201-6

Facility Specific condition to maintain a log book with daily observations of the two combustion turbine stacks while firing fuel oil. This condition verifies compliance with Part 227-1.3 and the opacity limit of 20% based off a 6-minute average.

6 NYCRR Subpart 225-1

CPV Valley Energy Center is subject to the requirements of 6 NYCRR Subpart 225-1 because some facility equipment can burn fuel oil. This restricts the sulfur content of the fuel being used at the facility. The facility demonstrated compliance by keeping records of fuel supply certifications Fuel sulfur content records will also be used to demonstrate compliance with various BACT emission limits.

6 NYCRR Subpart 227-1

CPV Valley Energy Center is subject to the requirements of 6 NYCRR Subpart 227-1 opacity limits under subdivision 227-1.3(a). For the purposes of periodic monitoring natural gas fired equipment at this facility are required to perform an annual Method 9. For periodic monitoring oil fired equipment are required to perform a daily visible opacity observation of those sources. If a source shows visible emissions two consecutive oil operating days in a row, the facility is required to perform a Method 9 on that source.

6 NYCRR Subpart 227-2 Reasonably Available Control Technology for Oxides of Nitrogen (NOx RACT)

CPV Valley Energy Center is a major source of emissions of oxides of nitrogen and is therefore subject to the NOx RACT requirements set forth in 6 NYCRR Part 227-2. To demonstrate compliance with these requirements, CPV has developed and submitted a NOx RACT analysis to the Department.

The 0.08 lb/mmBtu NOx RACT limit set forth in Subdivision 227-2.4(c) for mid-size boilers applies to the facility's auxiliary boiler. The 0.0450lb/mmBtu limit established as LAER pursuant to 6 NYCRR Part 231 is more stringent than the NOx RACT limit. Accordingly, by demonstrating compliance with LAER for the auxiliary boiler, the facility is also demonstrating compliance with NOx RACT.

The NOx RACT requirements set forth in Subdivision 227-2.4(d) for small boilers and internal combustion engines apply to the facility's fire pump engine and dew point heater. To comply with the NOx RACT requirements, CPV will perform annual tune-ups of this equipment. Each tune-up must be kept on-site for a minimum of five years.



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The NOx RACT limits set forth in Subdivision 227-2.4(e) for combustion turbines and duct burners apply to the facility’s combustion turbines and duct burners. These limits are less stringent than the emission limits established as LAER pursuant to 6 NYCRR Part 231. Accordingly, by demonstration compliance with the LAER for the combustion turbines, the facility is also demonstrating compliance with NOx RACT.

6 NYCRR Part 231

The CPV Valley Energy Center is a new facility located within a moderate nonattainment area of the state that has the potential to emit VOC and NOx in excess of the major facility threshold specified in Table 1 of Section 231-13. Accordingly, the facility is subject to the Lowest Achievable Emission Rate (LAER) requirements of Section 231-5. Additionally, the facility is a new facility with the potential to emit CO, PM, PM-10, Sulfuric Acid, and Carbon Dioxide Equivalents in excess of the applicable major facility thresholds in Table 5 of Section 231-13. Accordingly, the facility is subject to the Best Available Control Technology (BACT) requirements of Section 231-7. Since NOx is regulated as both an attainment and a nonattainment contaminant, the requirements of both BACT and LAER are applicable. However, the requirements of BACT are satisfied by the LAER requirements and, therefore, only the LAER requirements are included in the permit. The facility’s emissions and the applicable Part 231 thresholds are shown in the table below.

Contaminant	Applicable Part 231 Threshold (tons per year)	Facility Potential to Emit (tons per year)
VOC	50	65
NOx	100	183.2
CO	100	341.9
PM	25	95
PM-10	15	95
Sulfuric Acid Mist	7	12.6
Carbon Dioxide Equivalents	75,000	2,178,017

The monitoring and reporting requirements under 6 NYCRR Part 231-5.4 and Part 231-7.6 vary for each pollutant and source. For the combustion turbine generators; NOx and CO will be measured continuously with a Continuous Emissions Monitoring System (CEMS) and reported quarterly; VOC, PM, and H2SO4 emissions will be measured through performance testing which will be conducted once during the term of the permit; and the heat rate will be tested on an annual basis. For the auxiliary boiler, NOx, VOC, CO, PM, and H2SO4 emissions was measured through performance testing to demonstrate compliance. The CO2 emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO2 emissions over the relevant 12-month period by the annual total Btus (input-based limit) fired. The CO2 emissions will be reported quarterly as outlined in 6 NYCRR Part 251.6. For the emergency generators, as well as the fire pump engine, NOx, VOC, CO, H2SO4 and PM emissions was verified through vendor guarantees, with the Department reserving the right to require performance testing in the future; and CO2e emissions will be measured monthly with records maintained on site.

The number of Emission Reduction Credits (ERCs) required to offset the facility's potential emissions were established in the initial Air State Facility permit. After the issuance of that permit, the facility has reduced its potential emissions for NOx and VOC. However, the ERCs were used once the facility commenced operation and their numbers remain consistent with the facility's initial potential emissions.



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The applicant is required to track occurrences of start-up, shutdown, and fuel switches. Once the applicant has recorded 15 occurrences each of start-up, shutdown, and fuel switches, they are to develop and submit to the Department emission limits of NO_x, CO, and NH₃ for these specific periods of operation to be approved by the Department and included in the Title V permit. If 15 occurrences of start-up, shutdown, and fuel switches do not occur prior to the facility's requirement to renew the Title V permit the applicant will be required to develop and submit to the Department emissions limits based however many occurrences have been monitored.

Emission limits for VOC included in the permit incorporate all contaminants that meet the definition of VOC in 6 NYCRR 200.1(cg), including formaldehyde. Since the facility is a minor source of HAP, monitoring limits for individual contaminants that are classified as both HAPs and VOCs are not required.

Included with the permit application is an analysis of potential visibility impacts caused by emissions from the facility. This analysis concluded that no adverse impacts on visibility would be caused by the facility.

Also, included with the permit application is a discussion regarding potential impacts from emissions of HAPs from the facility. The Department has reviewed this information and determined that emissions of all HAPs will not exceed their respective short term and annual guideline concentrations and, therefore, are protective of public health and the environment.

6 NYCRR Part 242

6 NYCRR Part 242 applies to any unit that serves an electricity generator with a capacity greater than 25 megawatts on or after January 1, 2005. The CPV Valley Energy Station meets these criteria and is therefore subject to the requirements of Part 242. Part 242 requires CPV to participate in the CO₂ Budget Trading Program, and to maintain the necessary records and certifications to demonstrate compliance.

40 CFR Part 60 Subpart Dc (Standards of Performance for Industrial-Commercial -Institutional Steam Generating Units)

The auxiliary boiler at the facility is subject to this subpart. However, the SO₂ and PM emission limits in the NSPS are less stringent than the BACT emission limits. Therefore, Subpart Dc limits and requirements are not in the permit.

40 CFR Part 60 Subpart IIII (Standard of Performance for Stationary Compression Ignition Internal Combustion Engines)

The emergency generators and fire pump engine are all subject to emission limit requirements under 40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines). Emission limits for NO_x and VOC established for LAER are lower than those required under IIII. For CO and PM_{2.5}/PM₁₀, the BACT analysis concluded that the limits set forth in IIII is also demonstrating compliance with BACT requirements for these pollutants.

40 CFR Part 60 Subpart KKKK (Standards of Performance for Stationary Combustion Turbines)



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The combustion turbines and associated duct burners at this facility are subject to the requirements of 40 CFR Part 60 Subpart KKKK (Subpart KKKK). Subpart KKKK regulates NOx emissions from stationary combustion turbines. However, the NOx emission limits established under 6 NYCRR Part 231 to satisfy LAER requirements are more stringent than the limits contained in Subpart KKKK. Accordingly, by demonstrating compliance with the LAER emission limits for NOx the facility is also demonstrating compliance with the Subpart KKKK limits. The emission limits for SO2 in Subpart KKKK are less stringent than BACT emission limits, therefore BACT limits are in the permit. Applicable monitoring, recordkeeping, and reporting requirements under Subpart KKKK still apply. By being subject to Subpart KKKK, the turbines are exempt from requirements under 40 CFR Part 60, Subpart GG.

40 CFR Part 60 Subpart TTTT – Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

The two combustion turbines are subject to this subpart but Subpart KKKK, BACT/LAER limits and requirements are more restrictive.

40 CFR Part 63 Subpart YYYY (National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines)

40 CFR Part 63 Subpart YYYY applies to combustion turbines located at a major source of hazardous air pollutants. CPV Valley Energy Center is not a major source of hazardous air pollutants on either a total (25 tons per year) or individual (10 tons per year) HAP basis. Accordingly, Subpart YYYY does not apply to the combustion turbines at this facility.

40 CFR Part 63 Subpart ZZZZ

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ. Since the facility is an area source of HAP (less than major combined HAP threshold of 25 tpy), according to 40 CFR 63.6590 (c) (1) the emergency generator engine and the fire pump engine are demonstrating compliance with Subpart ZZZZ by complying with Subpart IIII.

40 CFR Part 64 – Compliance Assurance Monitoring (CAM Rule)

The facility is not subject to CAM, therefore it is not included in the permit.

40 CFR Part 72

The facility is required to apply for an Acid Rain permit as stated in 40 CFR Part 72.

40 CFR Part 97



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As the owner and operator of a stationary boiler serving a generator with nameplate capacity greater than 25 megawatts, CPV Valley Energy Center is subject to various CSAPR requirements promulgated under 40 CFR Part 97. These regulations require the facility to acquire and maintain allowances for emissions of NO_x and SO₂ in accordance with the emissions trading program.