



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6101-00042/00011
Effective Date: 12/20/2018 Expiration Date: 12/19/2023

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

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

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

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

Description:

PERMIT DESCRIPTION
Con Edison - Hudson Avenue Station
DEC ID # 2-6101-00042/00011 (Ren 3, Mod 0)

Con Edison - Hudson Avenue Station, located at 1 Hudson Avenue in Brooklyn, New York 11201 maintains the Title V major permit for the continued operation of three simple cycle combustion turbines (Emission Sources GT003, GT004 and GT005) used to generate electricity. The facility operates the following emission unit:

Emission Unit H-A0005 consists of three simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005) utilized to generate electricity. These three combustion turbines are rated at 235 MM Btu/hr each. The three combustion turbines burn ultra-low sulfur distillate oil only (Process GTD) and began operating on 7/1/1970. The emissions from each of these three combustion turbines (Emission Sources GT003, GT004 & GT005) exhaust through each turbine's own separate stack, identified as Emission Points GT003, GT004 & GT005; respectively.



The Title V permit contains a complete listing of the applicable federal, state and compliance monitoring requirements for the facility, its emission units and emission points. The facility is required to comply with the following permit conditions:

1. As per Condition # 5 for 6 NYCRR 201-6.4(c)(3)(ii), the facility is required to comply with the monitoring conditions in the permit. This condition specifies that 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. The facility must submit reports of any required monitoring to the NYSDEC every six months. These reports are due on January 30th and July 30th of each year.
2. As per Condition # 6 for 6 NYCRR 201-6.4(e), the facility must submit an annual compliance certification to the NYSDEC and the USEPA. This certification is due on January 30th of each year.
3. As per Condition # 7 for 6 NYCRR 202-2.1, the facility must submit an annual emission statement to the DEC by April 15th of each year. The data incorporated into the emission statement are used to determine the annual Title V fee paid by the facility.
4. As per Condition # 25 for 6 NYCRR 201-7.1, the three simple combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC, and the facility will maintain records on-site hard copies and/or electronically for a minimum of five years.
5. As per Condition # 26 for 6 NYCRR Part 207.3(d), the facility when subject to this regulation, shall take the actions described by the most recently approved episode action plan when an air pollution episode is in effect. The commissioner designates by order when an episode exists. The most recent approved episode action plan, dated June 19, 2007, is available at the regional office. The episode plan has procedures for responding to an episode action, and requirements for maintaining an air pollution episode log.



6. As per Condition # 28 for 6 NYCRR 225-1.2, the facility shall purchase ultra-low distillate fuel oil (Number 2 fuel oil) with sulfur content less than or equal to 0.0015 percent by weight. The sulfur content must be determined on a per delivery basis. The requisite analyses may be conducted by the oil supplier or by the facility.

7. As per Condition # 33 for 6 NYCRR 225-7(a), the facility is required to submit monthly reports containing the following information to the Department: Fuel analyses, quantity of each type of fuel received and consumed, and the results of any stack test conducted at the facility.

8. As per Condition # 36 for 6 NYCRR Part 227-2.5(b), the facility must comply with the NO_x RACT Compliance Plan. The type of combustion units at the Hudson Avenue Station are subject to the NO_x RACT standards set forth at 6 NYCRR 227-2.4.

However, Con Edison has proposed a case-by-case NO_x emission rate limitation option for the compliance with NO_x RACT regulation. Since the Con Edison Hudson Ave is not part of a system wide averaging plan, the NO_x RACT emission limits for the turbines would be 159 ppmvd, corrected to 15 % O₂ when burning oil as per Condition # 34 for 6 NYCRR 227-2.4(e)(1) . The actual NO_x emission rate of the turbines for the three simple combustion turbines (Emission Sources GT003, GT004 & GT005) is determined by stack tests conducted once during the term of the permit. Condition # 38 cited under 6 NYCRR 227-2.6(c) pertains to the three combustion turbines.

The NO_x RACT Compliance and Operating plans were revised on December 29, 2011, and were submitted to the DEC Region 2 office.

9. As per Condition #38 for 6 NYCRR 227-2.6 (c), in order for the facility to comply with the NO_x emission rates for each of the three combustion turbines, the facility must conduct a stack test for each turbine once during the term of the permit.

10. As per Condition #39 for 6 NYCRR 227.2(b)(1) for all three Combustion Turbines - #3, # 4 & # 5 (Emission Sources GT003, GT004 & GT005) in Emission Unit H-A0005 operating on Process GTD. The facility must conduct a stack test once during the term of the permit to measure the particulate emissions from each of the three (3) combustion turbines in order to demonstrate compliance with the particulate emission limit of 0.10 lb/MMBTU heat input.



11. As per Condition #44 for 6 NYCRR 227-1.3(a), the facility must comply with this particulates condition for all three Combustion Turbines - # 3, #4 & #5 (Emission Sources GT003, GT004 & GT005 & Emission Points GT003, GT004 & GT005) in Emission Unit H-A0005 operating on Process GTD. The opacity limit for the stacks for the three combustion turbines is 20% over a six-minute period with no more than one six-minute period per hour of more than 27% opacity. In order to demonstrate compliance with this requirement, the stacks will be visually checked once per day for visible emissions when the respective turbine is in operation. If visible emissions are observed on two consecutive days, then the facility must have a Method 9 analysis conducted within two business days for the stack(s) where visual emissions were observed. The purpose of the Method 9 analysis is to quantify the opacity.

12. As per Conditions # 34 & 35 for 6 NYCRR 227-2.4(e)(1), these two conditions apply to the three simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005) for the NO_x RACT Compliance beginning July 1, 2014. These two conditions apply to the three distillate oil fired simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005). Each simple cycle combustion turbine is rated at 235 MM Btu/hr. Con Edison has proposed a case-by-case NO_x emission rate limitation option for the compliance with NO_x RACT regulation. This condition is for the NO_x RACT compliance starting on July 1, 2014. This condition establishes the NO_x RACT requirements for the three (3) simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005). Compliance with the relevant presumptive NO_x RACT emission limit of 0.618 lb/MM Btu (159 ppm by volume dry, corrected to 15% O₂) for each turbine. Compliance with this emission limit will be demonstrated and determined by a stack emission testing once during the term of the permit. Emission will be calculated based on the most recent stack test result.

Compliance with these emission limits must be determined with a 24-hour average during the ozone season and a 30-day average during the non-ozone season unless the owner or operator chooses to use CEMS under the provisions of section 227- 2.6(b) of this Subpart. Con Edison opts to conduct emission stack testing once during the permit term to comply with a case-by-case limit of 0.618 lb/MM Btu.

13. As per Condition #37 for 6 NYCRR 227-2.5(c), Con Edison has proposed case-by-case emission rate limitation option for the compliance with NO_x RACT regulation. This condition is for the NO_x RACT compliance beginning July 1, 2014. Compliance with the NO_x emission limit as well as monitoring,



recordkeeping and reporting requirement listed in this condition is effective July 1, 2014 for the three (3) simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005).

This condition applies to the three distillate oil fired simple combustion turbines (Emission Sources GT003, GT004 & GT005). Compliance with the NOx RACT emission limit of 0.618 lb/MM Btu (159 ppm by volume dry, corrected to 15% O₂) limit for each turbine will be demonstrated by a stack emission testing one during the term of the permit. Emission will be calculated based on the most recent stack test result.

The three simple combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC staff, and the facility will maintain records on-site hard copies and/or electronically for a minimum of five years.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including one (1) emergency power generator (<500 hrs/yr) in the Tunnel Head House Building, and four (4) distillate and residual fuel oil storage tanks with storage capacities <300,000 bbls.

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: STEPHEN A WATTS
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5401

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of application for permit modification or renewal -
REGION 2 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

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.

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

Item 4.1:

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

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

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

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

Item 5.1:

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

New York State Department of Environmental Conservation

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

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

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

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES
4931 - ELEC & OTHER SERVICES COMBINED
4961 - STEAM SUPPLY

Permit Effective Date: 12/20/2018

Permit Expiration Date: 12/19/2023



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR 200.3: False statement
- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 23 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 24 6 NYCRR 201-7.1: Facility Permissible Emissions
- *25 6 NYCRR 201-7.1: Capping Monitoring Condition
- 26 6 NYCRR 207.3 (d): Compliance Certification
- 27 6 NYCRR 211.2: Visible Emissions Limited
- 28 6 NYCRR 225-1.2: Compliance Certification
- 29 6 NYCRR 225-1.2 (g): Compliance Certification
- 30 6 NYCRR 225-1.2 (h): Compliance Certification
- 31 6 NYCRR 225-1.6: Compliance Certification
- 32 6 NYCRR 225-1.6 (b): Compliance Certification
- 33 6 NYCRR 225.7 (a): Compliance Certification
- 34 6 NYCRR 227-2.4 (e) (1): Compliance Certification
- 35 6 NYCRR 227-2.4 (e) (1): Compliance Certification
- 36 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 37 6 NYCRR 227-2.5 (b): Compliance Certification
- 38 6 NYCRR 227-2.5 (c): Compliance Certification
- 39 6 NYCRR 227-2.5 (c): Compliance Certification
- 40 6 NYCRR 227-2.6 (c): Compliance Certification
- 41 6 NYCRR 227.2 (b) (1): Compliance Certification
- 42 40CFR 60, NSPS Subpart IIII: Applicability
- 43 40CFR 63, Subpart ZZZZ: Applicability

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44 40CFR 63, Subpart ZZZZ: Engines at Area sources of HAP

Emission Unit Level

45 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit

46 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

47 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

48 6 NYCRR 201-7.1: Process Permissible Emissions

EU=H-A0005,EP=GT005,Proc=ENG,ES=ENG03

49 40CFR 89.112, Subpart B: Compliance Certification

50 40CFR 89.112, Subpart B: Compliance Certification

51 40CFR 89.112, Subpart B: Compliance Certification

52 6 NYCRR 227-1.3 (a): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

53 ECL 19-0301: Contaminant List

54 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

55 6 NYCRR 211.1: Air pollution prohibited

NOTE: * preceding the condition number indicates capping.



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 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;

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.

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 between the dates of 12/20/2018 and 12/19/2023**

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

New York State Department of Environmental Conservation



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contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 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 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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2019.

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

Condition 6: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

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;

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- 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 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 – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

The address for the BQA is as follows:

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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 10/30/2019.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

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.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023



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 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 between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 200.7

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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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
Effective between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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 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 between the dates of 12/20/2018 and 12/19/2023

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 between the dates of 12/20/2018 and 12/19/2023

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

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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
Effective between the dates of 12/20/2018 and 12/19/2023

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: False statement
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 200.3

Item 21.1:

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

Condition 22: Emission Unit Definition
Effective between the dates of 12/20/2018 and 12/19/2023

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: H-A0005

Emission Unit Description:

Emission Unit H-A0005 consists of three simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005) utilized to generate electricity. These three combustion turbines are rated at 235 MM Btu/hr each. The three combustion turbines burn distillate fuel oil only

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(Process GTD) and began operating on 7/1/1970. There is also a small diesel starter engine firing diesel fuel and is used to start Combustion Turbine No. 3 (Emission Source GT003) in Emission Unit H-A0005.

This diesel starter engine is operated to start GT3 (Emission Source GT003). The starter engine is a Cummins KT19-C Model year 2012, and is rated at 450HP equivalent to 336 KW or 1.1465 MMBtu/hr. In 2017, this starter engine operated 18.5 hours.

The emissions from the diesel starter engine (Emission Source ENG03) exhaust through the same stack (Emission Point GT003) as No. 3 combustion turbine (Emission Source GT003).

The emissions from each of these three combustion turbines (Emission Sources GT003, GT004 & GT005) exhaust through its own separate stack, identified as Emission Points GT003, GT004 & GT005, respectively.

Building(s): GTFAC

Condition 23: Progress Reports Due Semiannually
Effective between the dates of 12/20/2018 and 12/19/2023

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

Item 23.1:

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 24: Facility Permissible Emissions
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 24.1:

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: 0NY210-00-0

PTE: 332,867 pounds per year



Name: OXIDES OF NITROGEN

Condition 25: Capping Monitoring Condition
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 25.1:

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 227-2.4

Item 25.2:

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

Item 25.3:

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.

Item 25.4:

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 25.5:

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 25.6:

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

Emission Unit: H-A0005
Process: ENG

Emission Point: GT005
Emission Source: ENG03

Emission Unit: H-A0005
Process: GTD

Emission Point: GT003
Emission Source: GT003

Emission Unit: H-A0005
Process: GTD

Emission Point: GT004
Emission Source: GT004



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Emission Unit: H-A0005
Process: GTD

Emission Point: GT005
Emission Source: GT005

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

Item 25.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The three simple combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC, and the facility will maintain records on-site hard copies and/or electronically for a minimum of five years.

The starter diesel-fired engine (Emission Source ENG03) which is used to startup Combustion Turbine #3 (Emission Source GT005) is also restricted to operating 764 hours per year on an annual 365-day rolling average on each turbine. Daily records for Emission Source ENG03 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC, and the facility will maintain records on-site hard copies and/or electronically for a minimum of five years.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 764 hours

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2019.

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

Condition 26: Compliance Certification

Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 207.3 (d)

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

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Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

When the Commissioner determines that an air pollution episode is in effect, the facility shall take the actions as prescribed in the most recent approved episode action plan. The facility must also maintain an air pollution episode log at the facility.

The most recent approved episode action plan, is available for review at the regional office of the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2019.

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

Condition 27: Visible Emissions Limited
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 211.2

Item 27.1:

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 28: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 225-1.2

Item 28.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate

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oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014 and are limited to the firing of distillate oil including number two heating oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016.

The department will require fuel analyses, information on the quantity of fuel received, fired or sold, and results of stack sampling, stack monitoring, and other procedures to ensure compliance with the provisions of this Subpart. All records must be maintained at the facility electronically for a minimum of five years. Hard copies of all reports and permit documents are maintained for a minimum of five years at Corporate EH & S office, 4 Irving Place - 15 FL NE, New York, NY 10003-3502.

Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

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: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2019.
Subsequent reports are due every 3 calendar month(s).

Condition 29: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

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

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. 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.

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 30: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

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.

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All other facility owners or distributors must submit these records and summaries upon request of the Department.

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 between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 225-1.6

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: MONTHLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2019.

Subsequent reports are due every 1 calendar month(s).

Condition 32: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 225-1.6 (b)

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Item 32.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(b) (1) Any person who sells oil and/or coal must retain, for at least five years, records containing the following information:

(i) fuel analyses and data on the quantities of all oil and coal received; and

(ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil and coal sold.

(2) Such fuel analyses must contain, as a minimum:

(i) data on the sulfur content, ash content, specific gravity, and heating value of residual oil;

(ii) data on the sulfur content, specific gravity, and heating value of distillate oil; and

(iii) data on the sulfur content, ash content, and heating value of coal.

Sampling, compositing, and analysis of fuel samples must be done in accordance with methods acceptable to the department.

Facility owners or fuel distributors required to maintain and retain records pursuant to this Subpart must make such records available for inspection by the department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: MONTHLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2019.

Subsequent reports are due every 1 calendar month(s).

Condition 33: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 225.7 (a)

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:

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The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum, supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submitted to, the NYSDEC as per the stated reporting requirement.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: MONTHLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2019.
Subsequent reports are due every 1 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (1)

Item 34.1:

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

Emission Unit: H-A0005	Emission Point: GT003
Process: GTD	Emission Source: GT003
Emission Unit: H-A0005	Emission Point: GT004
Process: GTD	Emission Source: GT004
Emission Unit: H-A0005	Emission Point: GT005
Process: GTD	Emission Source: GT005

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

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The NOx RACT emission limits for each of the three simple combustion turbines (Emission Sources GT003, GT004 & GT005) is 159 ppmvd (corrected to 15% O2) when burning oil. The actual NOx emission rate of the turbines is determined by stack tests conducted once during the term of the permit.

This condition applies to the three distillate oil fired simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005). Each simple cycle combustion turbine is rated at 235 MM Btu/hr. Con Edison has proposed a



case-by-case NO_x emission rate limitation option for the compliance with NO_x RACT regulation. This condition is for the NO_x RACT compliance starting on July 1, 2014. This condition establishes the NO_x RACT requirements for the three (3) simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005). Compliance with the NO_x RACT emission limit of 0.618 lb/MM Btu (159 ppm by volume dry, corrected to 15% O₂ - see calculations below) for each turbine will be demonstrated by a stack emission testing once during the term of the permit. Emission will be calculated based on the most recent stack test result.

Compliance with these NO_x emission limits must be determined with a one-hour average during the ozone season and a 30-day average during the non-ozone season unless the owner or operator chooses to use a CEMS under the provisions of section 227- 2.6(b) of this Subpart. Con Edison will conduct emission stack testing once during the permit term to demonstrate compliance with a case-by-case limit of 0.618 lb/MM Btu.

The three simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC staff, and the facility will maintain records on-site electronically for a minimum of five years. Hard copies of all reports and permit documents are maintained for a minimum of five years at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502.

Compliance with the NO_x emission limit as well as monitoring, recordkeeping and reporting requirement listed in this condition is effective July 1, 2014.

$$0.618 \text{ lb/MM Btu} = \frac{[(\text{ppmvd NO}_x \text{ @ 15\% O}_2) \times (20.9) \times (\text{Fd}) \times (\text{K})]}{[20.9 - 15\% \text{ O}_2]}$$

where:

ppmvd is the concentration in parts per million by volume, dry basis, of NO_x or CO;

MW is the molecular weight for NO_x (= 46 lb/lb-mole) or CO (= 28 lb/lb-mole);

Fdry factor for natural gas = 8,710 dscf/MM BTU; for residual or fuel oil = 9,190 dscf/MMBTU; and

O₂ correction factor = (20.9%)/(20.9% - O₂ measured); where O₂ measured is percent oxygen on a dry



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basis.

$$k \text{ for NO}_x = 1.194 \text{ E-}07 \text{ (lb/scf)/ppm}$$

Solving for ppmvd in the above equation, its value is calculated to be 159.0.

The NO_x RACT limit will be submitted to EPA for approval as a source-specific SIP revision.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 159 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2019.

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

Condition 35: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (1)

Item 35.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: H-A0005	Emission Point: GT003
Process: GTD	Emission Source: GT003
Emission Unit: H-A0005	Emission Point: GT004
Process: GTD	Emission Source: GT004
Emission Unit: H-A0005	Emission Point: GT005
Process: GTD	Emission Source: GT005

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

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to the three distillate oil fired simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005). Each simple cycle combustion turbine is rated at 235 MM Btu/hr. Con Edison has proposed a



case-by-case NO_x emission rate limitation option for the compliance with NO_x RACT regulation. This condition is for the NO_x RACT compliance starting on July 1, 2014. This condition establishes the NO_x RACT requirements for the three (3) simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005). Compliance with the NO_x RACT emission limit of 0.618 lb/MM Btu (159 ppm by volume dry, corrected to 15% O₂ - see calculations below) for each turbine will be demonstrated by a stack emission testing once during the term of the permit. Emission will be calculated based on the most recent stack test result.

Compliance with these NO_x emission limits must be determined with a one-hour average during the ozone season and a 30-day average during the non-ozone season unless the owner or operator chooses to use a CEMS under the provisions of section 227- 2.6(b) of this Subpart. Con Edison will conduct emission stack testing once during the permit term to demonstrate compliance with a case-by-case limit of 0.618 lb/MM Btu.

The three simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 FL NE, New York, NY 10003-3502. Records will be available for inspection by the DEC staff, and the facility will maintain records on site hard copies and/or electronically for a minimum of five years. Hard copies of all reports and permit documents are maintained for a minimum of five years at Corporate EH & S office, 4 Irving Place - 15 FL NE, New York, NY 10003-3502.

Compliance with the NO_x emission limit as well as monitoring, recordkeeping and reporting requirement listed in this condition is effective July 1, 2014.

$$0.618 \text{ lb/MM Btu} = \frac{[(\text{ppmvd NO}_x @ 15\% \text{ O}_2) \times (20.9) \times (\text{Fd}) \times (\text{K})]}{[20.9 - 15\% \text{ O}_2]}$$

where:

ppmvd is the concentration in parts per million by volume, dry basis, of NO_x or CO;

MW is the molecular weight for NO_x (= 46 lb/lb-mole) or CO (= 28 lb/lb-mole);

Fdry factor for natural gas = 8,710 dscf/MM BTU; for residual or fuel oil = 9,190 dscf/MMBTU; and

O₂ correction factor = (20.9%)/(20.9% - O₂)

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measured); where O₂ measured is percent oxygen on a dry basis.

$$k \text{ for NO}_x = 1.194 \text{ E-}07 \text{ (lb/scf)/ppm}$$

Solving for ppmvd in the above equation, its value is calculated to be 159.0.

The NO_x RACT limit will be submitted to EPA for approval as a source-specific SIP revision.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.618 pounds per million Btus

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING

DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2019.

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

Condition 36: Compliance Certification

Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (3)

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: H-A0005

Emission Point: GT003

Process: ENG

Emission Source: ENG03

Regulated Contaminant(s):

CAS No: 0NY210-00-0

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Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.



The diesel starter engine is a 450HP/336KW equivalent to 1.1465 MMBtu/hr, Cummins KT19-C Model year 2012. According to the manufacturer specification for this 450 HP Cummins KT19-C starter engine, which is used to startup Combustion Turbine #3 (GT3), the NOx emission limit is 3.62 g/kW-hr (or 2.70 g/bhp-hr). The starter engine comes up every time combustion turbine GT3 starts up. Only combustion turbine GT3 is equipped with diesel starter engine for startup purposes and the other two combustion turbines (GT4 and GT5) have electric motor for their startup operations. For the diesel-fired non-emergency engine (used for starting turbine No. 3), the Combustion engine has a limit operating hours per year of 764. According to the facility's record, the Cummins starter engine operated 18.5 hours per year in 2017 for a total NOx emission of 258 lbs.

This condition is for the NOx RACT limit for the starter engine. According to 6 NYCRR 227-2.4 (f)(3), the NOx RACT limit for this engine is 2.3 g/bhp-hr, but since the hours of operation for this engine are so low with a maximum operating hours of 764 per year, the Department is accepting the manufacturer's NOx limit of 2.70 g/bhp-hr for this starter engine, This NOx emission limit will be the case-by-case NOx RACT limit in this condition for 6 NYCRR 227-2.4 (f)(3). This diesel engine is used only for startup purposes.

Based on the certification provided by Cummins to the facility, the NOx emission test result for the Starter Engine is 3.62 g/kW-hr and that is equivalent to 2.6994 (or 2.70) g/bhp-hr (using the conversion ratio in industry literature of 1 bhp-hr = 0.7457 KW-hr):

$$(3.62 \text{ g/KW-hr}) \times (0.7457 \text{ KW-hr/1 bhp-hr}) = 2.6994 = 2.70 \text{ g/bhp-hr}$$

In 2017, this starter engine operated 18.5 hours for a total NOx emission of 49.5 lbs

Based on 18.5 hours of operation per year, and 2.70 g/bhp-hr, the NOx emissions from the 450 hp Cummins starter engine:

$$(2.70 \text{ g/bhp-hr}) \times (1 \text{ lb/ 454 g}) \times (18.5 \text{ hrs/yr}) \times (450 \text{ bhp}) = 49.5 \text{ lbs/yr of NOx}$$

This 2.7 grams per BHP-hr NOx RACT limit for the starter diesel-fired engine (Emission Source ENG03) which is used to startup Combustion Turbine #3 (Emission Source GT005) will be submitted EPA for approval as a source-specific



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SIP revision.

Please see related Condition # 38 for 6 NYCRR 227-2.5 (c).

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 2.70 grams per brake horsepower-hour
Reference Test Method: 40 CFR Appendix A - Method 7, 7E, or 19
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 5/30/2019.
Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 227-2.5 (b)

Item 37.1:

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

Emission Unit: H-A0005	Emission Point: GT003
Process: GTD	Emission Source: GT003
Emission Unit: H-A0005	Emission Point: GT004
Process: GTD	Emission Source: GT004
Emission Unit: H-A0005	Emission Point: GT005
Process: GTD	Emission Source: GT005

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

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The three simple combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC staff, and the facility will maintain records on-site hard copies and/or electronically for a minimum of five years.



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Work Practice Type: HOURS PER YEAR OPERATION
Upper Permit Limit: 764 hours
Monitoring Frequency: DAILY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2019.
Subsequent reports are due every 3 calendar month(s).

Condition 38: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 227-2.5 (c)

Item 38.1:

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

Emission Unit: H-A0005	Emission Point: GT003
Process: ENG	Emission Source: ENG03

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

The diesel starter engine is a 450HP/336KW equivalent to 1.1465 MMBtu/hr, Cummins KT19-C Model year 2012. According to the manufacturer specification for this 450 HP Cummins KT19-C starter engine, which is used to startup Combustion Turbine #3 (GT3), the NOx emission limit is 3.62 g/kW-hr (or 2.70 g/bhp-hr). The starter engine comes up every time combustion turbine GT3 starts up. Only combustion turbine GT3 is equipped with diesel starter engine for startup purposes and the other two combustion turbines (GT4 and GT5) have electric motor for their startup operations. For the diesel-fired non-emergency



engine (used for starting turbine No. 3), the Combustion engine has a limit operating hours per year of 764. According to the facility's record, the Cummins starter engine operated 18.5 hours per year in 2017 for a total NOx emission of 258 lbs.

This condition is for the NOx RACT limit for the starter engine. According to 6 NYCRR 227-2.4 (f)(3), the NOx RACT limit for this engine is 2.3 g/bhp-hr, but since the hours of operation for this engine are so low with a maximum operating hours of 764 per year, the Department is accepting the manufacturer's NOx limit of 2.70 g/bhp-hr for this starter engine. This NOx emission limit will be the case-by-case NOx RACT limit in this condition for 6 NYCRR 227-2.4 (f)(3). This diesel engine is used only for startup purposes.

Based on the certification provided by Cummins to the facility, the NOx emission test result for the Starter Engine is 3.62 g/kW-hr and that is equivalent to 2.6994 (or 2.70) g/bhp-hr (using the conversion ratio in industry literature of 1 bhp-hr = 0.7457 KW-hr):

$$(3.62 \text{ g/KW-hr}) \times (0.7457 \text{ KW-hr/1 bhp-hr}) = 2.6994 = 2.70 \text{ g/bhp-hr}$$

In 2017, this starter engine operated 18.5 hours for a total NOx emission of 49.5 lbs

Based on 18.5 hours of operation per year, and 2.70 g/bhp-hr, the NOx emissions from the 450 hp Cummins starter engine:

$$(2.70 \text{ g/bhp-hr}) \times (1 \text{ lb/454 g}) \times (18.5 \text{ hrs/yr}) \times (450 \text{ bhp}) = 49.5 \text{ lbs/yr of NOx}$$

This 2.7 grams per BHP-hr NOx RACT limit for the starter diesel-fired engine (Emission Source ENG03) which is used to startup Combustion Turbine #3 (Emission Source GT005) will be submitted EPA for approval as a source-specific SIP revision.

Please see related Condition # 36 for 6 NYCRR 227-2.4(f)(3).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.70 grams per brake horsepower-hour

Reference Test Method: 40 CFR Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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The initial report is due 5/30/2019.
Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement: 6 NYCRR 227-2.5 (c)

Item 39.1:

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

Emission Unit: H-A0005	Emission Point: GT003
Process: GTD	Emission Source: GT003
Emission Unit: H-A0005	Emission Point: GT004
Process: GTD	Emission Source: GT004
Emission Unit: H-A0005	Emission Point: GT005
Process: GTD	Emission Source: GT005

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Con Edison has proposed case-by-case emission rate limitation option for the compliance with NO_x RACT regulation. This condition is for the NO_x RACT compliance beginning July 1, 2014. This condition establishes the NO_x RACT requirements for the three (3) simple cycle-combustion turbines (Emission Sources GT003, GT004 & GT005). Compliance with the relevant NO_x RACT emission limit of 0.618 lb/MM Btu (159.0 ppm by volume dry, corrected to 15% O₂) for each turbine will be demonstrated by a stack emission testing once during the term of the permit. Emissions will be calculated based on the most recent stack test result.

Compliance with the NO_x emission limit as well as monitoring, recordkeeping and reporting requirement listed in this condition is effective July 1, 2014 for the three (3) simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005).

This condition applies to the three distillate oil fired simple combustion turbines (Emission Sources GT003, GT004 & GT005). Compliance with the NO_x RACT emission limit of 0.618 lb/MM Btu (159 ppm by volume dry, corrected to 15%



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O2) for each turbine will be demonstrated and determined by a stack emission testing once during the term of the permit. Emission will be calculated based on the most recent stack test result. Con Edison will conduct emission stack testing once during the permit term to demonstrate compliance with a case-by-case limit of 0.618 lb/MM Btu.

The three simple combustion turbines (Emission Sources GT003, GT004 & GT005) are restricted to operating 764 hours per year per turbine on an annual 365-day rolling average on each turbine. Daily records for Emission Sources GT003, GT004 & GT005 shall be kept by the facility and/or at Corporate EH & S office, 4 Irving Place - 15 Fl NE, New York, NY 10003-3502. Records will be available for inspection by the DEC staff, and the facility will maintain records on-site hard copies and/or electronically for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.618 pounds per million Btus
Reference Test Method: 40 CFR Part 75
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2019.
Subsequent reports are due every 3 calendar month(s).

Condition 40: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 227-2.6 (c)

Item 40.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

- Emission Unit: H-A0005 Emission Point: GT003
Process: GTD Emission Source: GT003
Emission Unit: H-A0005 Emission Point: GT004
Process: GTD Emission Source: GT004
Emission Unit: H-A0005 Emission Point: GT005
Process: GTD Emission Source: GT005

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

Item 40.2:



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Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Owners or operators of simple cycle combustion turbines shall utilize stack test Method 20 from 40 CFR Part 60, Appendix A, or another stack test method approved by the Department.

Owners or operators of simple cycle combustion turbines with a heat input rate of 250 MM Btu/hr or less shall perform a stack test, to determine the NO_x emission rate, once during the permit term.

This condition applies to the three distillate oil fired simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005).

Upper Permit Limit: 0.618 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 20

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2019.

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

**Condition 41: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023**

Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: H-A0005
Process: ENG

Emission Point: GT003
Emission Source: ENG03

Emission Unit: H-A0005
Process: GTD

Emission Point: GT003
Emission Source: GT003

Emission Unit: H-A0005
Process: GTD

Emission Point: GT004
Emission Source: GT004

Emission Unit: H-A0005
Process: GTD

Emission Point: GT005
Emission Source: GT005

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

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Facility DEC ID: 2610100042



Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit for a stationary combustion installation firing oil. The owner or operator shall complete the following one during the permit term:

1) submit, to the Department, an acceptable protocol for the testing of particulate emissions against the limit set forth in this condition; and

2) perform a stack test, based upon the approved protocol, to determine compliance with the particulate limit set forth in this condition.

All records generated pursuant to this condition must be maintained at the facility's Corporate EH&S Office at 4 Irving Place - 15 Fl NE, New York, NY 10003-3502 for a minimum of five years.

This condition applies to the three distillate oil fired simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005).

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 42: Applicability

Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 42.1:

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

Condition 43: Applicability

Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 43.1:

Facilities that have reciprocating internal combustion engines must comply with applicable



portions of 40 CFR 63 subpart ZZZZ.

Condition 44: Engines at Area sources of HAP
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 44.1:

Internal combustion engines, constructed or re-constructed on or after June 12, 2006, that meet the requirements of 40 CFR 60 Subpart IIII or Subpart JJJJ meet the requirements of 40 CFR 63 Subpart ZZZZ.

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

Condition 45: Emission Point Definition By Emission Unit
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 45.1:

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

Emission Unit: H-A0005

Emission Point: GT003

Height (ft.): 47	Length (in.): 252	Width (in.): 120
NYTMN (km.): 4506.4	NYTME (km.): 586.	Building: GTFAC

Emission Point: GT004

Height (ft.): 47	Length (in.): 252	Width (in.): 120
NYTMN (km.): 4506.4	NYTME (km.): 586.	Building: GTFAC

Emission Point: GT005

Height (ft.): 47	Length (in.): 252	Width (in.): 120
NYTMN (km.): 4506.4	NYTME (km.): 586.	Building: GTFAC

Condition 46: Process Definition By Emission Unit
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 46.1:

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

Emission Unit: H-A0005

Process: ENG Source Classification Code: 2-02-001-01

Process Description:

Process ENG is the firing of diesel fuel in the small



diesel starter engine that starts, Combustion Turbine No. 3 (Emission Source GT003) in Emission Unit H-A0005.

This diesel starter engine is operated to start GT3 (Emission Source GT003). The starter engine is a Cummins KT19-C Model year 2012, and is rated at 450HP equivalent to 336 KW or 1.1465 MMBtu/hr.

The emissions from the diesel starter engine (Emission Source ENG03) exhaust through the same stack (Emission Point GT003) as No. 3 combustion turbine (Emission Source GT003).

In 2017, this starter engine operated 18.5 hours.

From AP-42, the NOx emission factor for this diesel starter engine is 0.031 lbs/hp-hr, and the NOx emissions in 2017 are calculated as:

$$(0.031 \text{ lbs/hp-hr}) \times (450 \text{ HP}) \times (18.5 \text{ hrs}) = 258.075 \text{ lbs of NO}_x$$

Emission Source/Control: ENG03 - Combustion
Design Capacity: 450 horsepower (mechanical)

Emission Source/Control: GT003 - Combustion
Design Capacity: 235 million Btu per hour

Item 46.2:

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

Emission Unit: H-A0005

Process: GTD

Source Classification Code: 2-01-001-01

Process Description:

Process GTD is the combustion of distillate fuel oil in the three simple cycle combustion turbines (Emission Sources GT003, GT004 & GT005) in Emission Unit H-A0005 to generate electricity. These three combustion turbines are rated at 235 MM Btu/hr each and burn ultra-low sulfur distillate fuel oil only with 0.0015% maximum sulfur. Combustion turbine No. 3 (Emission Source GT003) is equipped with a diesel stater engine.

The emissions from each of these three combustion turbines (Emission Sources GT003, GT004 & GT005) exhaust through its own separate stack, identified as Emission Points GT003, GT004 & GT005, respectively.

Emission Source/Control: GT003 - Combustion
Design Capacity: 235 million Btu per hour



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Emission Source/Control: GT004 - Combustion
Design Capacity: 235 million Btu per hour

Emission Source/Control: GT005 - Combustion
Design Capacity: 235 million Btu per hour

Condition 47: Emission Unit Permissible Emissions
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 47.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: H-A0005

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 435.69 pounds per hour

332,867 pounds per year

Condition 48: Process Permissible Emissions
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 48.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: H-A0005

Process: GTD

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 435.69 pounds per hour

0.618 pounds per million Btus

332,867 pounds per year

Condition 49: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:40CFR 89.112, Subpart B

Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: H-A0005

Emission Point: GT005

Process: ENG

Emission Source: ENG03



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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

§ 89.112 Oxides of nitrogen, carbon monoxide, hydrocarbon, and particulate matter exhaust emission standards.

1.(a) Exhaust emission from nonroad compression-ignition engines to which this subpart is applicable shall not exceed the applicable exhaust emission limit standards of 3.5 gm/kW-hr for the emissions of CO.

Naturally aspired nonroad engines to which this subpart is applicable shall not discharge crankcase emissions into the ambient atmosphere, unless such crankcase emissions are permanently routed into the exhaust and included in all exhaust emission measurements. This provision applies to all Tier 2 engines and later models. This provision does not apply to engines using turbocharges, pumps, blowers, or supercharges of air induction.

2. Emission Limitations and Standards as per 40 CFR.4202(a):

b. Carbon Monoxide (CO) as per 40 CFR 89.112:

The Permittee shall limit the emission of CO below 3.5 gm/kW-hr from the emergency engine.

This condition applies to the Cummins 450 HP diesel-fired starter engine (Emission Source ENG03) that is used to start Combustion Turbine No.3 (Emission Source GT005) in Emission Unit H-A0005. This is a small diesel starter engine firing only diesel fuel oil in the compression ignition nonroad engine.

The starter engine is a Cummins KT19-C Model year 2012, and is rated at 450HP (equivalent to 336 KW or 1.1465 MMBtu/hr). This engine is certified by the manufacturer and has a Certification Emission Result Value of 1.8 gm/kW-hr for the emissions of CO, which is below the EPA Standard Limit Value of 3.5 gm/kW-hr for the emissions of CO. In 2017, this starter engine operated 18.5 hours.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL



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Manufacturer Name/Model Number: Cummins KT19-C Model year 2012 (equivalent to 336KW or 450 HP)

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 3.5 grams per kilowatt hour

Reference Test Method: 40 CFR 89.112 Subpart E or 40 CFR Part 1065

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 50: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:40CFR 89.112, Subpart B

Item 50.1:

The Compliance Certification activity will be performed for:

Emission Unit: H-A0005

Emission Point: GT005

Process: ENG

Emission Source: ENG03

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

§ 89.112 Oxides of nitrogen, carbon monoxide, hydrocarbon, and particulate matter exhaust emission standards.

1.(a) Exhaust emission from nonroad compression-ignition engines to which this subpart is applicable shall not exceed the applicable exhaust emission limit standards of 0.2 gm/kW-hr for the emissions of PM.

Naturally aspired nonroad engines to which this subpart is applicable shall not discharge crankcase emissions into the ambient atmosphere, unless such crankcase emissions are permanently routed into the exhaust and included in all exhaust emission measurements. This provision applies to all Tier 2 engines and later models. this provision does not apply to engines using turbocharges, pumps, blowers, or supercharges of air induction.

2. Emission limitations and Standards as per 40 CFR 60.4202(a):

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c. Particulate Matter (PM) as per 40 CFR 89.112:

The Permittee shall limit the emission of PM below 0.20 gm/kW-hr from the emergency engine.

Exhaust emission of particulate matter is measured using the California Regulations for New 1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines. This procedure is incorporated by reference in 40 CFR 89.6.

This condition applies to the Cummins 450 HP diesel-fired starter engine (Emission Source ENG03) that is used to start Combustion Turbine No.3 (Emission Source GT005) in Emission Unit H-A0005. This is a small diesel starter engine firing only diesel fuel oil in the compression ignition nonroad engine.

The starter engine is a Cummins KT19-C Model year 2012, and is rated at 450HP (equivalent to 336 KW or 1.1465 MMBtu/hr). This engine is certified by the manufacturer and has a Certification Emission Result Value of 0.12 gm/kW-hr for the emissions of Particulate Matter, which is below the EPA Standard Limit Value of 0.20 gm/kW-hr for the emissions of Particulate Matter. In 2017, this starter engine operated 18.5 hours.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Manufacturer Name/Model Number: Cummins KT19-C Model year 2012 (equivalent to 336KW or 450 HP)

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.20 grams per kilowatt hour

Reference Test Method: 40 CFR 89.6 or 40 CFR Part 1065

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 51: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable Federal Requirement:40CFR 89.112, Subpart B

Item 51.1:

The Compliance Certification activity will be performed for:

Emission Unit: H-A0005
Process: ENG

Emission Point: GT005
Emission Source: ENG03

Regulated Contaminant(s):

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Permit ID: 2-6101-00042/00011

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CAS No: 0NY508-00-0 40 CFR 60 SUBPART IIII - NMHC + NOX

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

§ 89.112 Oxides of nitrogen, carbon monoxide, hydrocarbon, and particulate matter exhaust emission standards.

1.(a) Exhaust emission from nonroad compression-ignition engines to which this subpart is applicable shall not exceed the applicable exhaust emission limit standards of 4.0 gm/kW-hr for the combined emissions of NO_x and NMHC.

Naturally aspired nonroad engines to which this subpart is applicable shall not discharge crankcase emissions into the ambient atmosphere, unless such crankcase emissions are permanently routed into the exhaust and included in all exhaust emission measurements. This provision applies to all Tier 2 engines and later models. this provision does not apply to engines using turbocharges, pumps, blowers, or supercharges of air induction.

2. Emission Limitations and Standards as per 40 CFR 60.4202(a):

a. Nitrogen Oxides (NO_x) and Non-methane hydrocarbons (NMHC) as per 40 CFR 89.112:

The Permittee shall limit the combined emissions of NO_x + NMHC below 4.0 gm/kW-hr from the emergency engine.

This condition applies to the Cummins 450 HP diesel-fired starter engine (Emission Source ENG03) that is used to start Combustion Turbine No. 3 (Emission Source GT005) in Emission Unit H-A0005. This is a small diesel starter engine firing only diesel fuel oil in the compression ignition nonroad engine.

The starter engine is a Cummins KT19-C Model year 2012, and is rated at 450HP (equivalent to 336 KW or 1.1465 MMBtu/hr). This engine is certified by the manufacturer and has a Certification Emission Result Value of 3.8 gm/kW-hr for the emissions of NO_x + NMHC, which is below the EPA Standard Limit Value of 4.0 gm/kW-hr for the emissions of NO_x + NMHC. In 2017, this starter engine operated 18.5 hours.



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Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Manufacturer Name/Model Number: Cummins KT19-C Model year 2012 (equivalent to 336KW or 450 HP)
Parameter Monitored: 40 CFR 60 SUBPART IIII - NMHC + NOX
Upper Permit Limit: 4.0 grams per kilowatt hour
Reference Test Method: 40 CFR 89.112 Subpart E or 40 CFR Part 1065
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 52: Compliance Certification
Effective between the dates of 12/20/2018 and 12/19/2023

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

Item 52.1:

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

Emission Unit: H-A0005	Emission Point: GT003
Process: ENG	Emission Source: GT003
Emission Unit: H-A0005	Emission Point: GT003
Process: GTD	Emission Source: GT003
Emission Unit: H-A0005	Emission Point: GT004
Process: GTD	Emission Source: GT004
Emission Unit: H-A0005	Emission Point: GT005
Process: GTD	Emission Source: GT005

Item 52.2:

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 (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee

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will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Method 9
Monitoring Frequency: DAILY
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2019.
Subsequent reports are due every 6 calendar month(s).



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 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 53: Contaminant List
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable State Requirement:ECL 19-0301

Item 53.1:

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

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

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

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

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

CAS No: 0NY508-00-0
Name: 40 CFR 60 SUBPART IIII - NMHC + NOX

Condition 54: Malfunctions and start-up/shutdown activities
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable State Requirement:6 NYCRR 201-1.4



Item 54.1:

(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.

Condition 55: Air pollution prohibited
Effective between the dates of 12/20/2018 and 12/19/2023

Applicable State Requirement:6 NYCRR 211.1

Item 55.1:

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