

**Division of Air Resources
Permit Review Report**

Permit ID: 2-6301-00006/00081
Renewal Number: 3
09/30/2019

Facility Identification Data

Name: CON ED - ASTORIA FACILITY
Address: 31-01 20TH AVE
ASTORIA, NY 11105

Owner/Firm

Name: CONSOLIDATED EDISON COMPANY OF NEW YORK INC
Address: 4 IRVING PL
NEW YORK, NY 10003-3502, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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**Permit Description
Introduction**

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

Summary Description of Proposed Project

Application for renewal of Air Title V Facility.

Attainment Status

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CON ED - ASTORIA FACILITY is located in the town of QUEENS in the county of QUEENS. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

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

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

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

Facility Description:

Con Ed - Astoria Facility repairs and paints transformers, performs autobody repairs on company vehicles and stores liquefied natural gas. A combustion turbine rated at 82 MMBtu/hr is used to liquefy natural gas for storage. This turbine combusts only natural gas. Emission from the storage of the liquefied natural gas are controlled with a flare and a ground combustor (rated at 250 MMBtu/hr). There are five vaporizers each with four burners (each burner rated at 10.5 MMBtu/hr) for converting liquefied natural gas to gaseous natural gas. The Transformer Shop operates four paint booths, eighteen welding bays, one large grit blaster and two small grit blasters. The Transportation Department operates a paint booth for auto painting and a gas station, both for servicing Company vehicles. The gas station has two 4,000 gallon tanks, one for unleaded gasoline and the other for diesel.

Permit Structure and Description of Operations

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

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

CON ED - ASTORIA FACILITY is defined by the following emission unit(s):

Emission unit AS0021 - Ground combustor to burn natural gas off the top of the LNG tank when the pressure is too high.

Flare stack utilized to safely combust natural gas released from emergency relief valves.

Emission unit AS0021 is associated with the following emission points (EP):
00106, 00107

Process: FLR is located at OUTDOORS, Building LNGFAC - The LNG facility has a flare stack utilized to safely combust natural gas released from all the safety valves at the facility. The maximum design capacity of the flare tip is 9090 mmbtu/hr. The flare has a pilot flame which requires a continuous heat input of 1.3 mmbtu/hr.

Process: GND is located at OUTDOORS, Building LNGFAC - The LNG facility has a two stage ground combustor which is used to burn natural gas off the top of the LNG storage tank when the pressure is too high. In the first stage, the combustor can burn up to 70,000 scf/hr of natural gas. In the second stage it can burn a maximum of 250,000 scf/hr. There are three pilot lights which are always lit, each with a heat input of 75,000 btu/hr. The ground combustor burns only natural gas.

Emission unit AS0023 - A large grit blaster and manual blast cabinet with two small grit blasters for transformer shop. The Large grit blaster (source ID Grit1) exhausts through a bag house to the outdoors. The manual cabinet with two small grit blasters is a small unit that vents indoors and is an insignificant source of emissions.

Emission unit AS0023 is associated with the following emission points (EP):
BH001

Process: GBL is located at GROUND, Building BUILD#82 - The transformer shop has one large and two small grit blasters for cleaning transformers. Grit2 is a small manual cabinet with two small blasters that vents indoors and is an insignificant source of emissions. Grit1 is an automatic large grit blaster that uses steel shot and is exhausted through a baghouse, which is located outside. Grit 1 has an exhaust flow of 8,100 cfm.

Emission unit AS005B - Simple cycle combustion turbine (GT014), rated at 82 MMBtu/hr. This combustion turbine fires only natural gas. This turbine is used to compress natural gas for storage.

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Emission unit AS005B is associated with the following emission points (EP):

GT014

Process: LNG is located at OUTDOORS, Building LNGFAC - This process includes simple combustion turbine, GT014 rated at 82 mmbtu/hr. This combustion turbine fires only natural gas. This turbine is used to compress natural gas for storage.

Emission unit AS0007 - Gas station; includes two 4,000 gallon storage tanks, one for unleaded gasoline and one for diesel fuel, is operated to supply fuel for company vehicles. The Tanks have vapor balanced submerged filling.

Emission unit AS0007 is associated with the following emission points (EP):

GS001

Process: GSS is located at OUTSIDE, Building GASSTAT - The Gas station with two 4,000 gallon storage tanks, one for unleaded gasoline and one for diesel, is operated to supply fuel for company vehicles. The tanks have vapor balanced submerged filling, and the station is equipped with Stage II Vapor Controls.

Emission unit AS0008 - Five (5) paint booths: Three underground transformer paint booths (2) for flow coating and (1) for drying), PB001, PB002, & PB003; one (1) pole(overhead) transformer paint booth; and one (1) auto body paint spray booth, PB005 for the Transportation Department. Each paint booth is equipped with a panel filter to control over spray.

Operation at the auto body paint booth uses low-specality coatings aggregates less than 55 gallons per year.

Emission unit AS0008 is associated with the following emission points (EP):

00001, 00002, 00003, 00004, 00005

Process: PBD is located at GROUND, Building BUILD#82 - Five paint spray booths. The transformer repair shop operates four paint booths. Three booths are used to flow coat underground transformers. One booth is used to paint pole type transformers using a "handgun". The Transportation Department operates one autobody spray booth. All the spray booths use disposable mat filers to control over spray.

Emission unit AS0009 - The transformer shop has seventeen welding bays and one high frequency soldering machine. Welding bays 1 through 7 and 16 and 17 are exhausted through stack 0822. Welding bays 8 through 15 are exhausted through stack 00823. The high frequency soldering machine exhausts through stack 00821.

Emission unit AS0009 is associated with the following emission points (EP):

00821, 00822, 00823

Process: WLD is located at GROUND, Building BUILD#82 - The transformer shop has 17 welding bays and one high frequency soldering machine that are used in repair of transformers.

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Emission unit AS0020 - Trane thermal multi-burner sub x vaporizers #1, #2, #3, #4 and #5. mmbtu/hr per vaporizer. Each vaporizer has its own stack. These vaporizers are used to heat a hot water bath which surrounds the liquid natural gas tubes, causing the LNG to convert to natural gas. These vaporizers are typically operated in any combination of 1 to 4 at a time, with the fifth as a spare. The vaporizers burn only natural gas.

Emission unit AS0020 is associated with the following emission points (EP):
 00101, 00102, 00103, 00104, 00105

Process: VAP is located at OUTDOORS, Building LNGFAC - There are 5 vaporizers, each with 4 burners. Each burner has a heat input of 10.5 mmbtu/hr, for a total of 42 mmbtu/hr per vaporizer. Each vaporizer has its own stack. These vaporizers are used to heat a hot water bath which surrounds the liquid natural gas tubes, causing the LNG to convert to natural gas. These vaporizers are typically operated in any combination of 1 to 4 at a time, with the fifth as a spare. The vaporizers burn only natural gas.

Title V/Major Source Status

CON ED - ASTORIA FACILITY is subject to Title V requirements. This determination is based on the following information:

This is a major source for NOx emissions.

Program Applicability

The following chart summarizes the applicability of CON ED - ASTORIA FACILITY with regards to the principal air pollution regulatory programs:

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

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) -

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requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

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

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

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

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

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

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

RACT Reasonably Available Control Technology (6 NYCRR Parts 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

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SIC Codes

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

SIC Code	Description
4911	ELECTRIC SERVICES
4922	NATURAL GAS TRANSMISSION
4932	GAS & OTHER SERVICES COMBINED

SCC Codes

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
2-02-002-09	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS TURBINE: EXHAUST
3-01-900-03	CHEMICAL MANUFACTURING CHEMICAL MANUFACTURING - FUEL FIRED EQUIPMENT NATURAL GAS: DISTILLATE HEATERS
3-01-900-23	CHEMICAL MANUFACTURING CHEMICAL MANUFACTURING - FUEL FIRED EQUIPMENT CHEMICAL MFG:FUEL FIRED EQUIPMENT:FLARES- NATURAL GAS
3-09-002-01	FABRICATED METAL PRODUCTS FABRICATED METAL PRODUCTS - ABRASIVE BLASTING OF METAL PARTS General
3-09-005-00	FABRICATED METAL PRODUCTS FABRICATED METAL PRODUCTS - WELDING FABRICATED METAL PROD-WELDING: GENERAL
4-02-001-10	SURFACE COATING OPERATIONS SURFACE COATING APPLICATION - GENERAL Paint: Solvent-Base
4-06-004-99	TRANSPORTATION AND MARKETING OF PETROLEUM PRODUCTS FILLING VEHICLE GAS TANKS - STAGE II NOT CLASSIFIED **

Facility Emissions Summary

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

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VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant , including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
007440-38-2	ARSENIC		0.0005		
000630-08-0	CARBON MONOXIDE		15536		
007440-47-3	CHROMIUM		0.0022		
007440-48-4	COBALT				0.0002
000100-41-4	ETHYLBENZENE		0.1823		
000050-00-0	FORMALDEHYDE	600		3	
007439-92-1	LEAD		0.1602		3.0E-6
007439-96-5	MANGANESE		0.0008		
000091-20-3	NAPHTHALENE		0.0005		
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		0.0073		
0NY210-00-0	OXIDES OF NITROGEN		2977.63		45.28
0NY075-00-0	PARTICULATES		339.74		2.17
0NY075-00-5	PM-10		339		2.17
007446-09-5	SULFUR DIOXIDE		25.31		0.09
000108-88-3	TOLUENE		3.59		0.01952
0NY100-00-0	TOTAL HAP		65.16		0.0617
0NY998-00-0	VOC		367.4		4.49
001330-20-7	XYLENE, M, O & P MIXT.		60.9		

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)
Owners and/or operators of facilities having an issued Title V permit shall submit a

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complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

- Item C: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)**
It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.
- Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)**
This permit does not convey any property rights of any sort or any exclusive privilege.
- Item H: Severability - 6 NYCRR Part 201-6.4(a)(9)**
If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.
- Item I: Permit Shield - 6 NYCRR Part 201-6.4(g)**
All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

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

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

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

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

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

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

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for

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violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

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

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item_02

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6

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NYCRR Part 201-5

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

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

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
-- FACILITY	ECL 19-0301	47	Powers and Duties of the Department with respect to air pollution control
A-S0020/-/VAP	40CFR 60-Dc.48c(g)	43	Reporting and Recordkeeping Requirements.
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.3	21	False Statement.
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	48	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 29, 30	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(4)	15	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(7)	2	General Conditions -

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FACILITY	6NYCRR 201-6.4(a)(8)	16	Fees
FACILITY	6NYCRR 201-6.4(c)	3	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)(2)	4	Recordkeeping and Reporting of Compliance Monitoring Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201- 6.4(c)(3)(ii)	5	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(d)(4)	23	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.4(f)(6)	17	Off Permit Changes
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-1.2	24	Notification.
FACILITY	6NYCRR 202-1.3	25	Acceptable procedures.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 207	26	Control Measures for an Air Pollution Episode
FACILITY	6NYCRR 211.1	49	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	27	General Prohibitions - visible emissions limited.
A-S0009/-/WLD	6NYCRR 212-1.6(a)	40	Limiting of Opacity
A-S0009/-/WLD	6NYCRR 212-2.4(b)	41	Control of Particulate from New and Modified Process Emission Sources
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
FACILITY	6NYCRR 227-1.3(a)	28	Smoke Emission Limitations.
A-S005B	6NYCRR 227-2.4(e)(1)	46	Simple cycle combustion turbines.
A-S0020/-/VAP	6NYCRR 227-2.4(g)	42	Other combustion installations.
A-S0021/-/FLR	6NYCRR 227-2.4(g)	44	Other combustion installations.
A-S0021/-/GND	6NYCRR 227-2.4(g)	45	Other combustion installations.
A-S0008/-/PBD	6NYCRR 228-1.3(a)	34	Surface Coating General Requirements-
A-S0008/-/PBD	6NYCRR 228-1.3(b)(1)	35	Opacity General Requirements - Record Keeping
A-S0008/-/PBD	6NYCRR 228-1.3(d)	36	Surface Coating General Requirements-
A-S0008/-/PBD	6NYCRR 228-1.4(a)	37	Handling, storage and disposal
A-S0008/-/PBD	6NYCRR 228-1.4(b)(4)	38	Class A Coating Line Miscellaneous Metal

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			Parts Coatings
A-S0008/-/PBD	6NYCRR 228-1.6(a)	39	Surface coating VOC analysis.
A-S0007	6NYCRR 230.2(a)(1)	31	Stage I
A-S0007	6NYCRR 230.2(f)	32	Requirements
A-S0007	6NYCRR 230.5(a)	33	Gasoline Dispensing Sites - Recordkeeping and Reporting.

Applicability Discussion:

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

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6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

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

6 NYCRR 201-6.4 (a) (8)

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

6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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

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

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

6 NYCRR 201-6.4 (d) (4)

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

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semiannually.

6 NYCRR 201-6.4 (e)

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

6 NYCRR 201-6.4 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

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

Facility Specific Requirements

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In addition to Title V, CON ED - ASTORIA FACILITY has been determined to be subject to the following regulations:

40 CFR 60.48c (g)

The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each day.

6 NYCRR 200.3

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

6 NYCRR 202-1.2

This regulation specifies that the department is to be notified at least 30 days in advance of any required stack test. The notification is to include a list of the procedures to be used that are acceptable to the department. Finally, free access to observe the stack test is to be provided to the department's representative.

6 NYCRR 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may be also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 211.1

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

6 NYCRR 212-1.6 (a)

This provisions requires that the facility owner or operator not cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water.

6 NYCRR 212-2.4 (b)

Particulate emissions from any process emission source, which received a B or C Environmental Rating, and for which an application was received by the department after July 1, 1973 are restricted to 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis.

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6 NYCRR 227-1.3 (a)

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

6 NYCRR 227-2.4 (e) (1)

Presumptive NO_x RACT emission limits for simple cycle combustion turbines.

6 NYCRR 227-2.4 (g)

This subdivision establishes NO_x RACT for emission sources that are subject to this rule but not specifically regulated under the other source categories of this rule.

6 NYCRR 228-1.3 (a)

This citation prohibits owners or operators of emission sources from allowing emissions to the outdoor atmosphere, which reduce the visibility through the atmosphere by 20 percent or greater for any consecutive six-minute period.

6 NYCRR 228-1.3 (b) (1)

This regulation requires the facility owner or operator to maintain a certification from the coating manufacturer that contains the information used to determine the as-applied volatile organic compound content of the coating. In addition, the facility owner or operator is required to maintain records of other information used to determine compliance with Part 228-1.

6 NYCRR 228-1.3 (d)

This citation directs the owners or operators of coating operations to minimize the emissions of volatile organic compounds to the atmosphere by properly handling, storing and disposing of coatings containing volatile organic compounds.

6 NYCRR 228-1.4 (a)

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6 NYCRR 228-1.4 (b) (4)

6 NYCRR 228-1.6 (a)

This citation specifies the test methods to be used on samples of coatings collected during their application, to verify compliance with the VOC limit requirements of the regulation.

6 NYCRR 230.2 (a) (1)

This provision requires the gasoline storage tank to be equipped with vapory recovery equipment between the tank and truck.

6 NYCRR 230.2 (f)

Owners and/or operators of gasoline storage tanks, vehicles, and dispensing stations required to install stage 1 and/or stage 2 vapor recovery equipment must meet these provisions. The provisions include training , correct operation, replacement, and repair of personnel and equipment.

6 NYCRR 230.5 (a)

This section requires record keeping of delivered fuel which must be maintained for two years.

6 NYCRR Part 207

This regulation requires the owner or operator to submit an episode action plan to the Department in accordance with the requirements of 6NYCRR Part 207. The plan must contain detailed steps which will be taken by the facility to reduce air contaminant emissions during each stage of an air pollution episode. Once approved, the facility shall take whatever actions are prescribed by the episode action plan when an air pollution episode is in effect.

Compliance Certification

Summary of monitoring activities at CON ED - ASTORIA FACILITY:

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

A-S0020/-/VAP FACILITY	43	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
A-S0009/-/WLD	40	monitoring of process or control device parameters as surrogate
A-S0009/-/WLD	41	intermittent emission testing

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FACILITY	28	record keeping/maintenance procedures
A-S005B	46	intermittent emission testing
A-S0020/-/VAP	42	record keeping/maintenance procedures
A-S0021/-/FLR	44	record keeping/maintenance procedures
A-S0021/-/GND	45	record keeping/maintenance procedures
A-S0008/-/PBD	34	monitoring of process or control device parameters as surrogate
A-S0008/-/PBD	35	record keeping/maintenance procedures
A-S0008/-/PBD	36	record keeping/maintenance procedures
A-S0008/-/PBD	37	record keeping/maintenance procedures
A-S0008/-/PBD	38	monitoring of process or control device parameters as surrogate
A-S0008/-/PBD	39	record keeping/maintenance procedures
A-S0007	33	record keeping/maintenance procedures

Basis for Monitoring

6 NYCRR Part 200.6: Con Ed - Astoria facility is located at 31-01 20th Ave in Astoria, NY, which is designated as a severe non-attainment area for ozone NAAQS. Facility has conducted an Air Dispersion Modeling and the 1-hr NO2 modeling report dated April 5, 2019 has demonstrated that the 1-hr NO2 impacts will not cause or contribute to an exceedance of National Ambient Air Quality Standards.

NYCRR 201-6.4(c)(3)(ii): This is a facility-wide condition that applies to monitoring conditions for all Title V Permits. All facilities that are subject to the Title V requirements must submit reports of any required monitoring to the NYSDEC every six months.

6 NYCRR 201-6.4(e): This is a facility-wide record keeping requirement that applies to all Title V facilities. These facilities must submit an annual compliance certification to the NYSDEC and the USEPA.

6 NYCRR 202-2.1: This is a facility-wide condition. This condition sets forth the applicability criteria for submitting an annual statement of emissions. The criteria are based on annual emission threshold quantities and ozone attainment designation. This condition applies to all Title V facilities and these facilities must submit an annual emission statement by April 15th of each year

6 NYCRR part 212: Emission Unit AS0009 - welding and soldering operation is subject to the opacity and particulate requirements of Part 212-1.6(a) and 212-2.4(b)(1) respectively. 40 CFR 63, Subpart XXXXXX is not applicable to this operation since this facility or company is not primarily engaged in the manufacturing, fabricating, or forging of one or more products listed in one of the nine metal fabrication and finishing source categories listed in this subpart. Also abrasive operation in emission unit AS0023 are exempt per 201-3.2(c)1(8) .

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NYCRR Part 227-2.4(e)(1): Emission Unit S005B - Presumptive NO_x emission limit for the simple cycle combustion turbine burning natural gas is 50 ppmvd corrected to 15 percent oxygen. Con Edison in their December 2011 NO_x RACT compliance plan, re-submitted on October 18, 2018, based on the economic analysis for the feasible NO_x control technologies, proposed an alternate NO_x RACT limit as per 6 NYCRR Part 227-2.5(c) for their simple cycle combustion turbine located at Con Ed - Astoria Facility, Facility demonstrated that the cost for controls will be more than the Department established reasonable cost for per ton of NO_x reduced. Based on the economic feasibility, emission limit of 0.34 lb/mmBtu was determined to be the Reasonable NO_x limit. The most recent stack test emissions from this unit (September 2018) demonstrated compliance with this permit limit.

NYCRR Part 227-2.4(g) Emission Unit S0020: The combustion sources, five LNG vaporizers, one ground combustor and one flare are subject to this subpart since these sources do not have specific NO_x RACT limits in Part 227-2.

In the NO_x RACT compliance Plan, Con Edison has demonstrated that the cost per ton of NO_x reduced with a feasible NO_x control technology for vaporizers was estimated to be more than the reasonable cost set by the Department. In this analysis facility has used the emission rate 0.129 lb/mmBtu, provided by the manufacturer. Con Edison has submitted records showing yearly low number of hours of operation of five vaporizers. The Department has determined that the annual tune up is the RACT for these sources.

For flare and ground combustor, there are no feasible add-on control technologies available, and the annual tune ups are determined to be the RACT for these sources.

NYCRR Part 228-1.4(a)- Emission Unit S0008 - This condition applies to the auto body paint spray booth of the Transportation Department, Emission Source PB005: Maximum VOC content of each coating used at the Auto body spray booth is limited as specified in this condition.

NYCRR Part 228-1.4(b)(4) -Emission Unit S0008 - This condition applies to four transformer spray booths, emission sources PB001, PB002, PB003 and PB004 which are subject Table B4 of this subpart: Coating lines for miscellaneous metal parts and product, Coating category- General One-Component: Maximum VOC content of coating used at transformer paint booths are limited to 2.8 per gallon of (minus water and excluded VOC). Also, 6 NYCRR Part 212 is not applicable to this paint spray booths as per 212-(1.4)(1)(1), since the contaminants in paints and solvents are A rated.

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NYCRR Part 228-1.6(a): This condition requires facility to determine the actual VOC content of an as applied coating by measuring the volatile content, water content, density, volume of solids, and weight of solids in accordance with EPA Reference Test Method 311 or Method 24, included in Appendix A of 40 CFR parts 63 and 60 respectively to demonstrate compliance with the requirements of Part 228-1 upon request by the Department.

6 NYCRR Part 230: Emission Unit: A-S0007 Facility operates a gas station and this permit requires facility to properly install, maintain and operate a Stage I vapor collection system.

40 CFR Part 60.48(c)(g): This condition is applicable to the vaporizers which are subject to 40 CFR 60 Subpart Dc and requires facility to daily record and maintain fuel usage of vaporizers.

40 CFR Part 63 Subpart HHHHHH: Con Edison Astoria facility is exempt from this regulation, based on the certification from Con Edison that none of the coatings sprayed at this facility contain target Hazardous Air Pollutants.