



**New York State Department of Environmental Conservation**  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

**Facility Identification Data**

Name: N SHORE TOWERS APT TOTAL ENERGY PLANT

Address: 272-40 GRAND CENTRAL PKWY

FLORAL PARK, NY 11005

**Owner/Firm**

Name: NORTH SHORE TOWERS APARTMENTS INC

Address: 272-40 GRAND CENTRAL PKWY

FLORAL PARK, NY 11005-1302, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

Name: Caitlyn P Nichols

Address: 1 HUNTERS POINT PLZ

47-40 21ST ST

LONG ISLAND CITY, NY 11101

Phone:

Division of Air Resources:

Name: SIDERIS A CARAMINTZOS

Address: NYSDEC - REGION 2

47-40 21ST ST

LONG ISLAND CITY, NY 11101-5407

Air Permitting Contact:

Name: SALVATORE N CASTRO

Address: NORTH SHORE TOWERS APARTMENTS INC

272-40 GRAND CENTRAL PKWY

FLORAL PARK, NY 11005

Phone:7184233335

**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**

N SHORE TOWERS APT TOTAL ENERGY PLANT is located in the town of QUEENS in the county of



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

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:**

North Shore Towers is an 1844-unit cooperative apartment complex on the Queens-Nassau border with an integral total energy (combined heat and power) plant (“TEP”). There is no tie-in to the local electrical utility; therefore, the TEP provides all the basic electrical, heating and cooking means for all the residents. The TEP consists of six engine-generators.

Three of the six generators are 1500 kilowatt engines with heat recovery units are connected to stack 0001 and are dual-fuel which operate on 94% natural gas with a 6% #2 fuel oil pilot fuel. The engines can also operate on 100% #2 fuel oil in the event natural gas is curtailed.

The other three generators are 1,640 kilowatt engines are connected to stack 0001A and are firing natural gas.

Stack 0001A and 0001 are the same stack. Prior to the replacement of the three engines all 6 engines were under one emission unit exhausting through emission point 0001. After the replacement of the three engines and the designation of a separate emission unit, the emission point 0001 for the new engines was designated as 0001A because AFS does not accept the same emission point for two different emission units.

The three new engines comply with the presumptive NOx RACT emission limit. The NOx emission limit of the three-remaining dual fired engines is 4.0 grams per breakhorsepower-hr based on the April 2018 NOx RACT Analysis due to Economic and Technological Reasons.

In addition, North Shore Towers operate four auxiliary boilers rated at 29.291 mmbtu/hour each connected to emission point 0002. The boilers can fire either #2 fuel oil or natural gas and the NOx RACT emission limit due to Economic and Technological Reasons is 0.086 pound per million Btu.

The TEP is manned 24 hours per day and load readings are logged hourly.

Fuel and gas meters are logged daily and monthly consumption records are kept on site.

There is one 10 kilowatt emergency generator which operates less than 500 hours per year.



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

**Permit Structure and Description of Operations**

The Title V permit for N SHORE TOWERS APT TOTAL ENERGY PLANT

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

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

N SHORE TOWERS APT TOTAL ENERGY PLANT is defined by the following emission unit(s):

Emission unit UFAC02 - Four Cleaver Brooks (CB 440-700) 29.29 MMBTU/HR boilers burning no. 2 oil and natural gas, venting to emission point 00002 located in BLDG2.

Emission unit UFAC02 is associated with the following emission points (EP):  
00002

Process: 007 is located at BASEMENT, Building BLD2 - Firing No. 2 Fuel Oil.

Process: 008 is located at BASEMENT, Building BLD2 - Firing Natural Gas

Emission unit UFAC03 - This unit consists of three (3) Caterpillar (CAT) internal combustion natural gas fired engines (001G, 001H, 001I) which replaced three (3) Chicago Pneumatic internal combustion dual-fuel fired engines (emission sources 001C, 001D, 001E) formerly under under emission unit U-FAC01. All sources are equipped with catalytic oxidation controls.

Emission unit UFAC03 is associated with the following emission points (EP):  
0001A

Process: 003 is located at basement, Building BLD2 - Firing Natural Gas.

combustion engines, emission sources 0001A, 0001B, 0001F, (c. 1974) dual-fuel fired diesel engines which are used to generate electrical power for the complex. The engines



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

are equipped with catalytic oxidation controls. This emission unit has one emission point in an elevated position on the roof of building BLDG2.

Emission unit UFAC01 is associated with the following emission points (EP):  
 00001

Process: 001 is located at BASEMENT, Building BLD2 - Firing No. 2 Fuel Oil

Process: 002 is located at BASEMENT, Building BLD2 - Firing Natural Gas 94% With 6% Pilot Oil

**Title V/Major Source Status**

N SHORE TOWERS APT TOTAL ENERGY PLANT is subject to Title V requirements. This determination is based on the following information:

The oxides of nitrogen emissions from the facility exceed the major facility threshold of being equal or wxceeding 25 tons per year on a rolling mothly basis.

**Program Applicability**

The following chart summarizes the applicability of N SHORE TOWERS APT TOTAL ENERGY PLANT with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	YES
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	YES
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) - 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



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

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, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

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

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

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

**SIC Code**

**Description**

6512

NONRESIDENTIAL BUILDING OPERATORS



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

6513

APARTMENT BUILDING OPERATORS

**SCC Codes**

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

SCC Code	Description
1-03-005-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL Grades 1 and 2 Oil
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
2-02-004-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Diesel
2-02-004-02	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Dual Fuel (Oil/Gas)

**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS		138788		
000630-08-0	CARBON MONOXIDE		236		



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

ONY210-00-0	OXIDES OF NITROGEN	321520	
ONY075-00-0	PARTICULATES		32.5
ONY075-02-5	PM 2.5	48.4	
ONY075-00-5	PM-10	49200	
ONY100-00-0	TOTAL HAP		15
ONY998-00-0	VOC	106400	

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

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

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

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

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

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

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



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

compliance with the conditions of this permit.

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

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

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

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

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

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

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

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

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

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





New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

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

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

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

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

**Item K: Permit Exclusion - ECL 19-0305**

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

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

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

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



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

evidence that:

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

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

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item\_02

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

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

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
FACILITY	ECL 19-0301	67	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-IIII	36	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

FACILITY	40CFR 60-JJJJ	37	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
U-FAC03/-/003/0001G	40CFR 60-JJJJ	63	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
U-FAC03/-/003/0001H	40CFR 60-JJJJ	64	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
U-FAC03/-/003/0001I	40CFR 60-JJJJ	65	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
FACILITY	40CFR 63-ZZZZ	38	Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	23	Chemical accident prevention provisions
FACILITY	40CFR 82-F	24	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	68	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.5	25	Emergency defense
FACILITY	6NYCRR 201-1.7	11, 12	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	13	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	14, 15, 16	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	17, 18	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	26, 27, 39, 40	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(4)	19	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4(a)(8)	20	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4(c)(2)	4	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-	5	Reporting



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

	6.4(c)(3)(ii)			Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(d)(4)	28		Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(e)	6		Compliance Certification
FACILITY	6NYCRR 201-6.4(f)(6)	21		Off Permit Changes
FACILITY	6NYCRR 201-7	29, 41		Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	22		Required emissions tests.
FACILITY	6NYCRR 202-2.1	7		Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8		Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	30		General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	69		General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	9		Open Fires - Prohibitions
FACILITY	6NYCRR 225.1(a)(3)	32		Sulfur in Fuel Limitations (SIP)
FACILITY	6NYCRR 225.7(a)	33, 34		Reports, Sampling and Analysis
FACILITY	6NYCRR 225-1.6(f)	31		Excess Emission Reports
U- FAC01/00001/001/0001A	6NYCRR 227.2(b)(1)	48		Particulate emissions.
U- FAC01/00001/001/0001B	6NYCRR 227.2(b)(1)	49		Particulate emissions.
U- FAC01/00001/001/0001F	6NYCRR 227.2(b)(1)	50		Particulate emissions.
U- FAC02/00002/007/0002A	6NYCRR 227.2(b)(1)	56		Particulate emissions.
U- FAC02/00002/007/0002B	6NYCRR 227.2(b)(1)	57		Particulate emissions.
U- FAC02/00002/007/0002C	6NYCRR 227.2(b)(1)	58		Particulate emissions.
U- FAC02/00002/007/0002D	6NYCRR 227.2(b)(1)	59		Particulate emissions.
U-FAC01/00001/001	6NYCRR 227-1.3	47		Smoke Emission Limitations.
U-FAC02/00002/007	6NYCRR 227-1.3	55		Smoke Emission Limitations.
U-FAC01/00001	6NYCRR 227-1.3(a)	45		Smoke Emission Limitations.
U-FAC02/00002	6NYCRR 227-1.3(a)	54		Smoke Emission Limitations.
U-FAC03/0001A	6NYCRR 227-1.3(a)	66		Smoke Emission Limitations.
U-FAC03	6NYCRR 227-2.4(f)(1)	60		Emission limit for natural gas fired engines.
U-FAC01	6NYCRR 227-2.5(c)	43		Alternative RACT option.
U-FAC01/00001	6NYCRR 227-2.5(c)	46		Alternative RACT option.
U-FAC02	6NYCRR 227-2.5(c)	51, 52		Alternative RACT option.



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

U-FAC01	6NYCRR 227-2.6	44	Testing, monitoring, and reporting requirements
U-FAC02	6NYCRR 227-2.6	53	Testing, monitoring, and reporting requirements
FACILITY	6NYCRR 231-10	35	Emission Reduction Credits (ERCs)
U-FAC03	6NYCRR 231-6.2	61, 62	Netting

**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 201-1.5

An enforcement action may be avoided if the facility can demonstrate that an emergency situation occurred which resulted in an emission limitation or permit violation. The following information would constitute evidence of an emergency situation: a properly signed operating log recorded during the actual event which; identifies the cause(s) of the emergency, indicates that all equipment was operating properly at the time, the person responsible took all reasonable steps to minimize the exceedance or violation, and that the department was notified of the emergency within 2 working days of the event.

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



**New York State Department of Environmental Conservation**  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

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

6 NYCRR 201-6.4 (a) (8)

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

6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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



**New York State Department of Environmental Conservation**  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

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

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

6 NYCRR 201-6.4 (d) (5)

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

6 NYCRR 201-6.4 (e)

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

6 NYCRR 201-6.4 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

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

**Facility Specific Requirements**

In addition to Title V, N SHORE TOWERS APT TOTAL ENERGY PLANT has been determined to be subject to the following regulations:

40 CFR Part 60, Subpart IIII

40 CFR Part 60, Subpart JJJJ

40 CFR Part 63, Subpart ZZZZ

This regulation defines performance standards for stationary reciprocating internal combustion engines.

6 NYCRR 211.1

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

6 NYCRR 225.1 (a) (3)

This regulation limits the amount of sulfur that can be in fuel burned at a stationary source. It references Table 1 of the 1979 version of the sulfur in fuel limitations expressed in terms of percent by weight for fuel oil and pounds per million Btu gross heat content for solid fuel. **NOTE: This citation has been replaced by requirements cited under 225-1.2(a)(2) and is no longer part of current State regulations, however, it remains part of New York State's approved State Implementation Plan (SIP).**

6 NYCRR 225.7 (a)

The commissioner may require an owner of an air contamination source to retain for up to three years, and to submit to him, fuel analyses, information on the quantity of fuel received, burned or sold, and results of stack sampling, stack monitoring and other procedures to ensure compliance with the provisions of the Part. **NOTE: This citation has been replaced by requirements cited under 225-1.8(a) and is no longer a part of current State regulations, however, it remains as part of New York State's approved State Implementation Plan (SIP).**





New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

6 NYCRR 225-1.6 (f)

This citation requires subject facilities to submit excess emissions reports to the Department.

6 NYCRR 227.2 (b) (1)

This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. The rule establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for any oil fired stationary combustion installation.

6 NYCRR 227-1.3

This regulation requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

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 (f) (1)

Presumptive NO<sub>x</sub> RACT emission limit for natural gas fired stationary internal combustion engines.

6 NYCRR 227-2.5 (c)

This provision allows the owner or operator to demonstrate that the applicable presumptive RACT emission limit in section 227-2.4 of this Subpart is not economically or technically feasible. Based on this determination the Department is allowed to set a higher emission source specific emission limit.

6 NYCRR 227-2.6

This regulation establishes the compliance testing, monitoring, and reporting requirements for NO<sub>x</sub> RACT affected stationary combustion installations.

6 NYCRR 231-6.2



New York State Department of Environmental Conservation  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

This section establishes the requirements for performing a netting analyses.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is 70 tons of NOx per year on a 12-month rolling basis for emission unit FAC01.

6 NYCRR Subpart 231-10

This subpart outlines the procedures used to create and use emission reduction credits (ERCs).

**Compliance Certification**

**Summary of monitoring activities at N SHORE TOWERS APT TOTAL ENERGY PLANT:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
U-FAC03/-/003/0001G	63	intermittent emission testing
U-FAC03/-/003/0001H	64	intermittent emission testing
U-FAC03/-/003/0001I	65	intermittent emission testing
FACILITY	25	record keeping/maintenance procedures
FACILITY	16	work practice involving specific operations
FACILITY	27	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
U-FAC01	42	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
FACILITY	32	work practice involving specific operations
FACILITY	33	record keeping/maintenance procedures
FACILITY	34	record keeping/maintenance procedures
FACILITY	31	record keeping/maintenance procedures
U-FAC01/00001/001/0001A	48	intermittent emission testing
U-FAC01/00001/001/0001B	49	intermittent emission testing
U-FAC01/00001/001/0001F	50	intermittent emission testing
U-FAC02/00002/007/0002A	56	intermittent emission testing
U-FAC02/00002/007/0002B	57	intermittent emission testing
U-FAC02/00002/007/0002C	58	intermittent emission testing
U-FAC02/00002/007/0002D	59	intermittent emission testing
U-FAC01/00001/001	47	record keeping/maintenance procedures
U-FAC02/00002/007	55	record keeping/maintenance procedures
U-FAC01/00001	45	monitoring of process or control device parameters as surrogate
U-FAC02/00002	54	monitoring of process or control device parameters as surrogate
U-FAC03/0001A	66	monitoring of process or control device parameters as surrogate
U-FAC03	60	monitoring of process or control device parameters as surrogate



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**

U-FAC01	43	record keeping/maintenance procedures
U-FAC01/00001	46	monitoring of process or control device parameters as surrogate
U-FAC02	51	record keeping/maintenance procedures
U-FAC02	52	monitoring of process or control device parameters as surrogate
U-FAC01	44	intermittent emission testing
U-FAC02	53	intermittent emission testing
FACILITY	35	record keeping/maintenance procedures
U-FAC03	61	intermittent emission testing
U-FAC03	62	intermittent emission testing

**Basis for Monitoring**

6NYCRR 201-6.5(c)(3)(ii) requires the facility to submit reports of any required monitoring to the NYSDEC every six months.

6NYCRR 201-6.5(e) requires the facility to submit an annual compliance certification to the NYSDEC and the USEPA.

6NYCRR 202-2.1 requires the facility to submit an annual emission statement by April 15th of each year.

6NYCRR Part 211.3 is a facility-wide condition that restricts the opacity of visible emissions from any air contamination source, which is not regulated otherwise, and describes the monitoring method and reporting requirements.

Part 201-6.5(c)(3)(ii) 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.

Part 227-2.5(c) specifies an alternate NOx emission limit of the dual fired engines and the boilers due to economic and technological reasons.

system-wide average and consists of a weighted average allowable emission rate based upon the weighted average of actual emissions from units that are operating. Excess reductions utilized in the system-wide average may only be counted from the lowest allowable emission rate. Simply put, if there is a more stringent emission limit than RACT already in place on the unit, then excess reductions may only be counted from below that emission rate.

Part 225.1(a)(3) limits the amount of sulfur that can be in fuel burned at a stationary source. It references Table 1 of the 1979 version of the sulfur in fuel limitations expressed in terms of percent by weight for fuel oil and pounds per million Btu gross heat content for solid fuel. NOTE: This citation has been replaced by requirements cited under 225-1.2(a)(2) and is no longer part of current State regulations, however, it remains part of New York State's approved State Implementation Plan (SIP).

Part 227.2(b)(1) establishes a particulate limit of 0.10 lbs/MMBtu based on a 2-hour average emission for any oil fired stationary combustion



**New York State Department of Environmental Conservation**  
**Permit Review Report**

**Permit ID: 2-6307-00339/00002**

**Renewal Number: 3**

**11/05/2018**