



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

**Permit ID: 9-2926-00016/00036**

**Renewal Number: 2**

**04/13/2016**

**Facility Identification Data**

Name: LOCKPORT COGENERATION FACILITY

Address: 5087 JUNCTION RD

LOCKPORT, NY 14094

**Owner/Firm**

Name: FCI LOCKPORT GP INC

Address: 5087 JUNCTION RD

LOCKPORT, NY 14094, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

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Division of Air Resources:

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ALBANY, NY 12233

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Air Permitting Facility Owner Contact:

Name: LEWIS L STALEY

Address: LOCKPORT ENERGY ASSOC LP

5087 JUNCTION RD

LOCKPORT, NY 14094

**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**

LOCKPORT COGENERATION FACILITY is located in the town of LOCKPORT in the county of NIAGARA.



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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*	MARGINAL 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:**

THIS IS A COGENERATION FACILITY WHICH COGENERATES STEAM THAT IS SOLD TO A NEARBY STEAM HOST AND ELECTRICITY WHICH IS SOLD TO AN ELECTRIC UTILITY. THE FACILITY OPERATES THREE COMBINED CYCLE GAS TURBINES, AN AUXILIARY BOILER, AND THREE STARTING DIESEL ENGINES USED FOR STARTING THE GAS TURBINES. SEVERAL EXEMPT AND TRIVIAL EMISSION SOURCES ARE ALSO LOCATED AT THIS FACILITY.

**Permit Structure and Description of Operations**

The Title V permit for LOCKPORT COGENERATION 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:

- 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.

LOCKPORT COGENERATION FACILITY is defined by the following emission unit(s):



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Emission unit U00003 - Three starting diesel engines for the combustion turbines. Each engine (@ 4.26 MMBtu/hr) is limited to 475 hours of operation per year. These units do not have any federally enforceable or state-only pollutant emission limits.

Emission unit U00003 is associated with the following emission points (EP):  
00008, 00009, 00010

Process: 112 is located at MAIN, Building GENBLDG - Distillate oil combustion in three (3) starting diesel engines.

Emission unit U3GTDB - This emission unit consists of three (3) identical combined cycle combustion turbines. Each combustion turbine (designed for 45 MW @ 47 degrees F and 531 MMBtu/hr heat input @ 47 degrees F) is equipped with a steam injection system for control of NOx emissions. Each combustion turbine has an individual heat recovery steam generator (HRSG) exhaust stack and an HRSG bypass stack. Flue gas generated by each combustion turbine is exhausted to the atmosphere through either the operating combustion turbines HRSG bypass stack (bypass mode) or the operating turbine's HRSG stack (combined cycle mode). While operating in combined cycle mode, the duct burners (each @ 110 MMBtu/hr heat input design capacity) may be operated to heat the combustion turbines exhaust gas before it enters the HRSG.

Emission unit U3GTDB is associated with the following emission points (EP):  
00001, 00002, 00003, 00004, 00005, 00006

Process: DCT Natural gas combustion in duct burner.

Process: GT1 is located at MAIN, Building GENBLDG - Distillate oil combustion in combustion turbines without operation of the duct burner at full load.

Process: GT2 is located at MAIN, Building GENBLDG - Distillate oil combustion in combustion turbines with operation of the duct burner firing natural gas at full load.

Process: GT3 Natural gas combustion in combustion turbine without operation of duct burner at full load.

Process: GT4 Natural gas combustion in combustion turbine with operation of duct burner at full load.

Process: GT6 is located at MAIN, Building GENBLDG - Distillate oil combustion in combustion turbines without operation of the duct burner at partial load.

Process: GT7 is located at MAIN, Building GENBLDG - Distillate oil combustion in combustion turbines with operation of duct burner firing natural gas at partial load.

Process: GT8 Natural gas consumption in combustion turbine without operation of duct burner at partial load.

Process: GT9 Natural gas combustion in combustion turbine with operation of duct burner at partial load.

Emission unit U00002 - Auxiliary standby boiler.



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00007

Process: 110 is located at MAIN, Building GENBLDG - No. 2 fuel oil combustion in auxiliary boiler.

Process: 111 is located at MAIN, Building GENBLDG - Natural gas combustion in auxiliary boiler.

**Title V/Major Source Status**

LOCKPORT COGENERATION FACILITY is subject to Title V requirements. This determination is based on the following information:

Major

**Program Applicability**

The following chart summarizes the applicability of LOCKPORT COGENERATION FACILITY with regards to the principal air pollution regulatory programs:

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

**NOTES:**

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

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

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

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



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

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

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

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

**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212.10, 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**

4931  
4961

ELEC & OTHER SERVICES COMBINED  
STEAM SUPPLY

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**SCC Codes**

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

SCC Code	Description
1-02-005-01	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - DISTILLATE OIL Grades 1 and 2 Oil
1-02-006-01	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS Over 100 MBtu/Hr
1-02-006-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
2-02-001-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
2-02-001-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine: Cogeneration
2-02-002-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine

**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). 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 Name	PTE	
		lbs/yr	Range
000124-38-9	CARBON DIOXIDE		>= 100,000 tpy
000630-08-0	CARBON MONOXIDE		>= 250 tpy but <



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000050-00-0	FORMALDEHYDE	75,000 tpy
000074-82-8	METHANE	> 0 but < 10 tpy
		>= 50 tpy but < 100 tpy
010024-97-2	NITROUS OXIDE	> 0 but < 2.5 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250 tpy but < 75,000 tpy
0NY075-02-5	PM 2.5	>= 2.5 tpy but < 10 tpy
0NY075-00-5	PM-10	> 0 but < 2.5 tpy
007446-09-5	SULFUR DIOXIDE	> 0 but < 2.5 tpy
0NY100-00-0	TOTAL HAP	>= 10 tpy but < 25 tpy
0NY998-00-0	VOC	> 0 but < 2.5 tpy

**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 B: 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



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6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

**Item C: 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 D: 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 E: 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 F: 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 G: 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 H: 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 I: 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 J: 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





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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 K: 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.

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**Item L: 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 M: 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: 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	78	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 52-A.21	26, 27, 28	Prevention of

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U-00002	40CFR 52-A.21	40, 41, 42, 43	Significant Deterioration Prevention of Significant Deterioration
U-00002/-/110	40CFR 52-A.21	47	Prevention of Significant Deterioration
U-00002/-/111	40CFR 52-A.21	49	Prevention of Significant Deterioration
U-00003	40CFR 52-A.21	52	Prevention of Significant Deterioration
U-3GTDB	40CFR 52-A.21	54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64	Prevention of Significant Deterioration
U-3GTDB/-/DCT	40CFR 52-A.21	68, 69	Prevention of Significant Deterioration
U-3GTDB/-/GT1	40CFR 52-A.21	70, 71	Prevention of Significant Deterioration
U-3GTDB/-/GT3	40CFR 52-A.21	72, 73	Prevention of Significant Deterioration
U-3GTDB/-/GT6	40CFR 52-A.21	74, 75	Prevention of Significant Deterioration
U-3GTDB/-/GT8	40CFR 52-A.21	76, 77	Prevention of Significant Deterioration
FACILITY	40CFR 60-A.11	30	General provisions - compliance with standards and maintenance requirements
U-00002	40CFR 60-A.12	44	General provisions - Circumvention
U-3GTDB	40CFR 60-A.12	65	General provisions - Circumvention
U-3GTDB	40CFR 60-A.13	66	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.14	31	General provisions - Modification
FACILITY	40CFR 60-A.8	29	General provisions - Performance tests
U-00002	40CFR 60-Db.44b(k)	45	Exemption from the Standards for Nitrogen Oxides. (see narrative)
U-00002/-/110	40CFR 60-Db.47b(f)	48	Exemption from Emission Monitoring for Sulfur Dioxide.
U-00002	40CFR 60-Db.48b	46	Emissions Monitoring for Particulate Matter and Nitrogen Oxides.
U-3GTDB	40CFR 60-GG.334	67	Monitoring of Operations for Turbines
FACILITY	40CFR 68	19	Chemical accident prevention provisions

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FACILITY	40CFR 72	32	Permits regulation Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 82-F	20	
FACILITY	40CFR 97-AAAAA.406	33	Transport Rule (TR) NOx Annual Trading Program Standard Requirments
FACILITY	40CFR 97-BBBBB.506	34	Transport Rule (TR) NOx Ozone Season Trading Program Standard Requirement
FACILITY	40CFR 97-CCCCC.606	35	Transport Rule (TR) SO2 Group 1 Trading Program Standard Requirments
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	79	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	21, 36, 37	Title V Permits and the Associated Permit Conditions
U-00002	6NYCRR 201-6	38	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	15	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (2)	4	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)	22	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.



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FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	23	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2 (g)	24	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.2 (h)	25	Sulfur-in-Fuel Limitations
U-00002	6NYCRR 227-1.3	39	Smoke Emission Limitations.
U-00003	6NYCRR 227-1.3	50	Smoke Emission Limitations.
U-3GTDB	6NYCRR 227-1.3 (a)	53	Smoke Emission Limitations.
U-00003	6NYCRR 227-2.5 (c)	51	Alternative RACT option.

**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,



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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.

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



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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) (5)

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

6 NYCRR 201-6.4 (e)

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

6 NYCRR 201-6.4 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 215.2

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

40 CFR Part 68

This Part lists the regulated substances and 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



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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, LOCKPORT COGENERATION FACILITY has been determined to be subject to the following regulations:

40 CFR 52.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions;

ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40 CFR 60.11

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.12

This regulation prohibits an owner or operator from concealing emissions in violation of applicable standards by any means.

40 CFR 60.13

This regulation specifies how monitoring shall be performed and which methods and appendices are used to determine if the monitoring is adequate and in compliance with the regulated standards.

40 CFR 60.14

This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.

40 CFR 60.334

40 CFR 60.44b (k)

1) Combust, alone or in combination, only natural gas, distillate oil, or residual oil with a nitrogen content less than 0.30% by weight,

2) Have a combined annual capacity factor of 10% or less of natural gas, distillate oil, and residual oil with a nitrogen content of 0.30% by weight, and

3) Are subject to federally enforceable conditions limiting the above mentioned conditions.

40 CFR 60.47b (f)





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Facilities combusting very low sulfur oil are not subject to emission monitoring requirements of the section if they obtain fuel receipts as described in 40 CFR 60-Db.49b(r).

40 CFR 60.48b

40 CFR 60.8

This general provision of the New Source Performance Standards or NSPS, sets forth the performance test requirements for all NSPS applicable sources. Basically, all performance tests must be conducted within 60 days after achieving the maximum production rate but no later than 180 days after initial startup using procedures consistent with methods and procedures approved by the Administrator.

40 CFR 97.406

40 CFR 97.506

40 CFR 97.606

40 CFR Part 72

In order to reduce acid rain in the U.S. and Canada, Title IV of the Clean Air Act Amendments of 1990 requires the establishment of a program to reduce emissions of SO<sub>2</sub> and NO<sub>x</sub> (sulfur dioxide and oxides of nitrogen). Fossil fuel burning electric utility companies are a major source of these contaminants in the US. These sources were regulated in a phased approach. Phase I, which began in 1995, requires 110 of the higher-emitting utility plants in the eastern and Midwest states to meet intermediate SO<sub>2</sub> emission limitations. Phase II, which began in 2000, tightens the emission limitations and expands the coverage to most fossil fuel burning utilities. The utilities are given "allowances" which is a limited authorization to emit one ton of SO<sub>2</sub>. The utilities are required to limit SO<sub>2</sub> emissions to the number of allowances they hold. Some can benefit however by reducing their emissions and selling their excess allowances. Part 72 contains the means of implementing this portion of Title IV of the Clean Air Act.

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.



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6 NYCRR 225-1.2 (g)  
 Sulfur-in-fuel limitations for the purchase of distillate oil on or after July 1, 2014.

6 NYCRR 225-1.2 (h)  
 Sulfur-in-fuel limitation for the firing of distillate oil on or after July 1, 2016.

6 NYCRR 227-1.3  
 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 227-2.5 (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.

**Compliance Certification**  
**Summary of monitoring activities at LOCKPORT COGENERATION FACILITY:**

<b>Location</b> <b>Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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FACILITY	26	record keeping/maintenance procedures
FACILITY	27	record keeping/maintenance procedures
FACILITY	28	record keeping/maintenance procedures
U-00002	40	intermittent emission testing
U-00002	41	intermittent emission testing
U-00002	42	intermittent emission testing

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U-00002	43	work practice involving specific operations
U-00002/-/110	47	intermittent emission testing
U-00002/-/111	49	intermittent emission testing
U-00003	52	work practice involving specific operations
U-3GTDB	54	work practice involving specific operations
U-3GTDB	55	record keeping/maintenance procedures
U-3GTDB	56	record keeping/maintenance procedures
U-3GTDB	57	continuous emission monitoring (cem)
U-3GTDB	58	continuous emission monitoring (cem)
U-3GTDB	59	continuous emission monitoring (cem)
U-3GTDB	60	continuous emission monitoring (cem)
U-3GTDB	61	continuous emission monitoring (cem)
U-3GTDB	62	monitoring of process or control device parameters as surrogate
U-3GTDB	63	work practice involving specific operations
U-3GTDB	64	record keeping/maintenance procedures
U-3GTDB/-/DCT	68	intermittent emission testing
U-3GTDB/-/DCT	69	intermittent emission testing
U-3GTDB/-/GT1	70	intermittent emission testing
U-3GTDB/-/GT1	71	intermittent emission testing
U-3GTDB/-/GT3	72	intermittent emission testing
U-3GTDB/-/GT3	73	intermittent emission testing
U-3GTDB/-/GT6	74	intermittent emission testing
U-3GTDB/-/GT6	75	intermittent emission testing
U-3GTDB/-/GT8	76	intermittent emission testing
U-3GTDB/-/GT8	77	intermittent emission testing
U-00002	46	record keeping/maintenance procedures
U-3GTDB	67	record keeping/maintenance procedures
FACILITY	33	record keeping/maintenance procedures
FACILITY	34	record keeping/maintenance procedures
FACILITY	35	record keeping/maintenance procedures
U-00002	38	work practice involving specific operations
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	24	work practice involving specific operations
FACILITY	25	work practice involving specific operations
U-00002	39	record keeping/maintenance procedures
U-00003	50	record keeping/maintenance procedures
U-3GTDB	53	monitoring of process or control device parameters as surrogate
U-00003	51	intermittent emission testing

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**Basis for Monitoring**

The facility is subject to PSD regulations and is comprised of three emission units; **U-3GTDB** - three turbines with HRSGs and duct burners; **U-00003** - three diesel starting motors; and **U-00002** - auxiliary boiler. In a May 11, 2015 letter the Department approved the facilities NOx RACT Plan. The facilities Title V permit renewal contains conditions that adhere to the operating limits proposed in the NOx RACT Plan. This Title V permit renewal also accounts for the federal CSAPR program which has replaced the state CAIR program. All facility records essential to this permit must be kept on site for a minimum of five years. The facility monitoring requirements are listed below by emission unit:

**U-3GTDB:**



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The owner or operator shall install, calibrate, maintain and operate CEMs to measure emissions of CO and NO<sub>x</sub> from each combustion turbine, firing distillate oil or natural gas, with or without duct burner operation (processes GT-1 through GT-9).

Stack testing will be done once every five years in order to determine compliance with the PM, PM-10 and VOC emission limits for the duct burners firing natural gas (process DCT).

Stack testing will be done once every five years in order to determine compliance with the PM, PM-10, VOC emission limits for the combustion turbines firing distillate oil without the duct burners (processes GT-1, GT-3, GT-6 and GT-8).

**U-00003:**

Each diesel starting engine is limited to 475 hours of operation per year. Each engine shall meet an alternative NO<sub>x</sub> RACT limit of 9 g/bhp-hr and be required to perform an annual tune-up. One of the three engines shall be tested once every five years to determine compliance with the alternative RACT limit.

**U-00002:**

In a December 15, 2014 letter the facility requested a monitoring option change for the auxiliary boiler. This consisted of deactivating the existing CEMs and going back to a previous permitted yearly limit of 876 hours (i.e., 183,960 million Btu per year). The change-over is desired due to the significant under-utilization of the auxiliary boiler as a result of the low facility capacity operating figures since 2008. The facility owner or operator will use fuel-flow meters to monitor the combined natural gas and No. 2 fuel oil usage in meeting the 183,960 million Btu per year limit. The facility owner or operator shall also maintain a log on site for a minimum of five years that documents the natural gas and No. 2 fuel oil usage.

Stack testing will be done once every five years in order to determine compliance with the emission limits for CO, NO<sub>x</sub>, PM, PM-10 and VOC.

In a USEPA letter dated October 30, 1992, EPA granted a monitoring variance from the 40 CFR 60 Subpart Db requirement for the applicant to install a COM to monitor opacity. The letter requires all records pertinent to the alternative opacity monitoring method be kept on site for a period of five years.

Operators of oil-fired boilers where a COM is not utilized for measuring smoke emissions, shall be required to: (1) observe the stack for each boiler which is operating on oil once per day for visible emissions, (2) the results of each observation must be recorded in a bound logbook or other format acceptable to the Department. This logbook must be retained at the facility for five years, and (3) if the operator observes any visible emissions



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two consecutive days firing oil then a Method 9 analysis must be conducted within two business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.