



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 3-5518-00342/00019

Renewal Number: 2

04/29/2014

Facility Identification Data

Name: YONKERS JOINT WWTP

Address: 1 FERNBROOK ST |LUDLOW DOCK SOUTH
YONKERS, NY 10705

Owner/Firm

Name: WESTCHESTER COUNTY

Address: 148 MARTINE AVE
WHITE PLAINS, NY 10601-4704, USA

Owner Classification: Municipal

Permit Contacts

Division of Environmental Permits:

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Address: NYSDEC

100 HILLSIDE AVE - STE 1W

WHITE PLAINS, NY 10603

Phone:9143428250

Division of Air Resources:

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Air Permitting Facility Owner Contact:

Name: WESTCHESTER CO DEPT OF ENVIRONMENTAL FACILITIES

Address: 270 NORTH AVE

NEW ROCHELLE, NY 10801

Phone:9148135400

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

Renewal of the Title V permit will extend the authorization to operate of the existing air contamination sources and will authorize the following additional operations:

- 1) the revised operation of the engines that generate power used by the aeration tanks blowers. The engine



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operate mainly on digester gas and use number 2 oil for maintenance.

2) the replacement of the boiler burners with burners of lower rating. (from 23 mmbtu/hr to 16 mmbtu/hr).

3) the installation of a new engine that will initially operate on plant-generated digester gas and when natural gas lines are installed in the plant, the engine will operate on natural gas too.

4) the installation of a new emergency generator made by Cummins.

Attainment Status

YONKERS JOINT WWTP is located in the town of YONKERS in the county of WESTCHESTER. 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:

The Yonkers Joint Wastewater Treatment Plant (YJWWTP) provides primary and secondary treatment of wastewater generated from portions of southern and western Westchester County. The facility is currently permitted to treat 120 MGD from June 1 to October 31, and 145 MGD from November 1 to May 31, pursuant to a SPDES permit issued by NYSDEC.

The plant maintains several combustion sources such as boilers (serving the primary and secondary processes), engines (serving the aeration tanks blowers), emergency generators and flairs. The plant also maintains several odor control systems.

Digester gas is used as fuel for the primary boilers and secondary boilers, which are used for process steam and plant heating. Digester gas is also utilized in a fuel cell demonstration project operated at the YJWWTP by the New York power authority, as well as by process air engines, which are currently used to provide air for various plant processes in the event of the loss of electrical power at the facility. Excess digester gas is combusted in 4 waste burners (flares).



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Certain areas within the YJWWTP with odor-causing potential are controlled using mist scrubber systems. These processes consist of the following: dewatering facility (EP 00002), primary thickener and dewatering facility (EP 00003), South Yonkers screen house (EP 00004) and the aeration grit chambers and primary settling tanks (EP 00005). These systems are primarily designed to control hydrogen sulfide.

Permit Structure and Description of Operations

The Title V permit for YONKERS JOINT WWTP

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.

YONKERS JOINT WWTP is defined by the following emission unit(s):

Emission unit 1CSOBL - Two CSO boilers each rated at 3.4 mmbtu/hr.

Emission unit 1CSOBL is associated with the following emission points (EP):
00004

Process: NAG is located at Building CSO - 3.4 mmbtu/hr boiler fueled with natural gas.

Emission unit 1ENGIN - Two dual fuel reciprocating engines, each rated at 1,700 HP are used to drive the air blowers. The engines are run one at a time, with the second engine being used as a back up. During startup and clean up times, the engines burn diesel. All other times the engines burn a combination of digester gas and diesel at a ratio of 98:2.

Emission unit 1ENGIN is associated with the following emission points (EP):
00030, 00031

Process: DSL is located at Basement, Building BLOWER - No. 2 oil (diesel) will be used for approximately 2% of the time, that is 8 days per year for 24 hours per day. This unit will burn 200 gallons per year diesel.

Process: GAS is located at Building BLOWER - Digester gas will be used for about 98% of the time, that is 357 days per year, 24 hours per day. This unit will burn 185 million cubic feet per year digester gas.



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Emission unit 1FLARE - Four Flares burn the excess digester gas generated by the primary and the secondary digesters. The fourth waste gas burner, rated at 88,150 cubic feet per hour, was installed in 2006, was operated in 2007 and is permitted under Renewal 1, Modification 1.

Prior to this modification, three waste gas burners were used to combust the excess digester gas. Each of the three existing burners has a design capacity of capacity is 24,000 cubic feet of digester gas per hour.

Emission unit 1FLARE is associated with the following emission points (EP):

00015, 00016, 00017, 00032

Process: FLR is located at Building PLANT - Excess Gas from the Primary and Secondary digesters is combusted in the Waste Gas Burners. The process is used by the three flares (Emission Points 16, 17, 18) located outdoors at the front of the plant and the fourth flare (Emission Point 00032) located atop the Primary Digester Building (PDB).

Emission unit 1SDBLR - Two boilers each rated at 16.7 mmbtu/hr which combust digester gas and No. 2 fuel oil. Boilers are used to provide process steam and plant heating.

Note: The two 23 mmBTU/hr (each), boilers that served this unit prior to Sandy were damaged and were replaced by the smaller (16.7 mmbtu/hr) boilers.

Emission unit 1SDBLR is associated with the following emission points (EP):

00012, 00013

Process: DIG is located at BASEMENT, Building BLOWER - Combustion of Digester Gas in two Boilers.

Process: OIL is located at BASEMENT, Building BLOWER - Combustion of No. 2 Fuel Oil in two boilers.

Emission unit 1YJWTP - Various sources including the odor control systems from the plant. - This Emission Unit consists of air contamination sources resulting from the handling and treatment of municipal wastewater and sewage sludge at the Yonkers Joint Wastewater Treatment Plant. Major wastewater processes include mechanical bar screening, aerated grit removal, primary settling tanks, aeration basins, secondary settling tanks and chlorination. Treated wastewater effluent is discharged to the Hudson River. Sludge is collected from the primary and secondary tanks and is thickened to increase the solids content. Thickened sludge is anaerobically digested and then pumped to two sludge storage tanks for storage prior to Dewatering and off-site disposal. The facility is permitted to process 120 million gallons per day from June 1st to October 31st and 145 mgd from November 1st to May 31st.

Emission unit 1YJWTP is associated with the following emission points (EP):



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00001, 00002, 00003, 00006, 00007, 00035

Process: AER is located at NORTH OF THICKENER, Building FLOTATION - This process, which is located outdoors, comprises the secondary treatment of wastewater in six (6) aeration basins, each consisting of four (4) passes. Process air is added to the aeration basins using fine bubble diffusers. Process air is obtained from the flotation thickener building, which houses thickeners used to increase the solids concentration of waste activated sludge.

Process: AGC is located at WEST OF SCREEN/GRIT, Building SCRENGRIT -

Process: BAR is located at FIRST, Building SCRENGRIT -

Process: CHL is located at SOUTH OF BLOWER BLDG, Building CHLCT - This process comprises the disinfection of the wastewater in the chlorine contact tanks. Wastewater is conveyed to the two (2) inside channels of the North Chlorine Contact Tanks. Sodium Hypochlorite solution is added through diffusers. Effluent is divided between the outside the North Chlorine Contact Tanks for additional chlorination. Effluent is being discharged to the Hudson River via two outfalls. This is an outdoors process.

Process: CSO is located at Building CSO -

Process: DW1 is located at Building DEWATERING -

Process: FST is located at NORTH OF BLOWER BLDG, Building FST - Separation of waste activated sludge in nine (9) settling tanks. Wastewater enters the tanks from the fuel settling tanks influent channel. Process is located outdoors.

Process: PST is located at NORTH OF SCREEN/GRIT, Building SCRENGRIT -

Process: PTH is located at Building DEWATERING -

Process: SSD is located at Building SECDG -

Process: STK is located at Building DEWATERING - Primary thickening of sewage.

Emission unit 2ENGIN - ADG Engine - This emission unit comprises a spark-ignited (MWM TCG 2020 V16m, ~ 2100 BHP, 4-cycle) engine. The engine will run on digester gas initially. When the plan installs a natural gas line the engine will run on both natural and digester gas.

Emission unit 2ENGIN is associated with the following emission points (EP):

00033

Process: 2NG is located at Building BLOWER - Burnign of natural gas by the new spark ignition lean burn engine.

Natural gas supply line is scheduled to be installed in the plant in the future.

Process: ADG is located at Building BLOWER - Burning of plant-produced digester gas by the new spark ignition lean burn engine.



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Emission unit 2SDBLR - Two exempt boilers each rated at 8.4 mmBTU/hr. The boilers serve the primary building and the sludge heat exchangers.

Emission unit 2SDBLR is associated with the following emission points (EP):

00005

Process: BL1 is located at Building DEWATERING -

Process: BL2 is located at Building DEWATERING -

Emission unit 3ENGIN - One 2500 KW diesel generator (Cummins - 2500DQLC, Compression Ignition- Internal Combustion Engine).

Emission unit 3ENGIN is associated with the following emission points (EP):

00034

Process: 3OL is located at Building SCREENGRIT - Emergency generator burning diesel.

Title V/Major Source Status

YONKERS JOINT WWTP is subject to Title V requirements. This determination is based on the following information:

The site's emissions of Nitrogen Oxides exceed 25 tons per year.

Program Applicability

The following chart summarizes the applicability of YONKERS JOINT WWTP with regards to the principal air pollution regulatory programs:

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

NOTES:



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PSD Prevention of Significant Deterioration (40 CFR 52) - 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 Part 231) - 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) - 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) - 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) - 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) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - 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) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

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SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis

of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
4952	SEWERAGE SYSTEMS

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
1-02-005-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - DISTILLATE OIL 10-100MMBTU/HR **
1-02-006-03	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS Less Than 10 MMBtu/Hr
1-03-004-03	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL OIL <10MMBTU/HR **
1-03-007-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - PROCESS GAS
2-01-001-07	POTW DIGESTER GAS-FIRED BOILER INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) RECIPROCATING: EXHAUST
2-02-001-07	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) RECIPROCATING: EXHAUST
2-02-002-02	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS
2-03-007-02	Reciprocating INTERNAL COMBUSTION ENGINES - COMMERCIAL/INSTITUTIONAL COMMERCIAL/INSTITUTIONAL IC ENGINE - DIGESTER GAS
5-01-004-10	RECIPROCATING IC ENGINE: POTW DIGESTER GAS SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - LANDFILL

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5-01-007-07	DUMP WASTE GAS DESTRUCTION: WASTE GAS FLARES SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-15	POTW: HEADWORKS SCREENING SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-20	POTW:AERATED GRIT CHAMBER SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-31	POTW: PRIMARY SETTLING TANK SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-40	POTW: DIFFUSED AIR ACT SLUDGE SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-60	POTW: SECONDARY CLARIFIER SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-71	POTW: CHLORINE CONTACT TANK SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-81	POTW: GRAVITY SLUDGE THICKENER SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-92	POTW: ANAEROBIC DIGESTER SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-99	POTW: SLUDGE CENTRIFUGE SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT OTHER NOT CLASSIFIED

Facility Emissions Summary

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

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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
000117-84-0	1,2-BENZENEDICARBOXYLIC ACID DIOETHYL ESTER (C24H38O4)		>= 2.5 tpy but < 10 tpy
000084-74-2	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER		> 0 but < 10 tpy
000084-66-2	1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER		> 0 but < 2.5 tpy
000108-10-1	2-PENTANONE, 4-METHYL		> 0 but < 10 tpy
000075-07-0	ACETALDEHYDE		> 0 but < 10 tpy
000107-02-8	ACROLEIN		> 0 but < 10 tpy
069418-26-4	ACRYL- (2-ACRYLOXYETHYL) TRIMETHYLAMMONIUM CHLORIDE COPOLMER		> 0 but < 2.5 tpy
007664-41-7	AMMONIA		>= 2.5 tpy but < 10 tpy
007440-38-2	ARSENIC		> 0 but < 10 tpy
000071-43-2	BENZENE		> 0 but < 10 tpy
000098-06-6	BENZENE, (1,1-DIMETHYLETHYL) -		> 0 but < 2.5 tpy
000095-63-6	BENZENE, 1,2,4-TRIMETHYL-		> 0 but < 2.5 tpy
000108-67-8	BENZENE, 1,3,5-TRIMETHYL-		> 0 but < 2.5 tpy
000106-46-7	BENZENE, 1,4-DICHLORO-		> 0 but < 10 tpy
007440-41-7	BERYLLIUM		> 0 but < 10 tpy
000117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE		> 0 but < 10 tpy
000085-68-7	BUTYL BENZYL PHTHALATE		> 0 but < 2.5 tpy
007440-43-9	CADMIUM		> 0 but < 10 tpy
000630-08-0	CARBON MONOXIDE	110800	
000056-23-5	CARBON TETRACHLORIDE		> 0 but < 10 tpy
007782-50-5	CHLORINE		> 0 but < 10 tpy
000067-66-3	CHLOROFORM		> 0 but < 10 tpy
007440-47-3	CHROMIUM		> 0 but < 10 tpy
007440-50-8	COPPER		>= 2.5 tpy but < 10 tpy
000075-71-8	DICHLORODIFLUOROMETHANE		> 0 but < 2.5 tpy
000075-09-2	DICHLOROMETHANE		> 0 but < 10 tpy
000067-64-1	DIMETHYL KETONE		> 0 but < 2.5 tpy
064742-47-8	DISTILLATES (PETROLEUM), HYDROTREATED LIGHT		> 0 but < 2.5 tpy
000071-55-6	ETHANE, 1,1,1-TRICHLORO		> 0 but < 10 tpy
000540-59-0	ETHENE, 1,2-DICHLORO		> 0 but < 2.5 tpy
000075-35-4	ETHENE, 1,1-DICHLORO		> 0 but < 10 tpy
000100-41-4	ETHYLBENZENE		> 0 but < 10 tpy
000050-00-0	FORMALDEHYDE		> 0 but < 10 tpy

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007783-06-4	HYDROGEN SULFIDE		> 0 but < 2.5 tpy
000067-63-0	ISOPROPYL ALCOHOL		> 0 but < 2.5 tpy
007439-92-1	LEAD		> 0 but < 10 tpy
007439-96-5	MANGANESE		> 0 but < 10 tpy
007439-97-6	MERCURY		> 0 but < 10 tpy
000078-93-3	METHYL ETHYL KETONE		> 0 but < 10 tpy
001634-04-4	METHYL TERTBUTYL ETHER		> 0 but < 10 tpy
064741-41-9	NAPHTHA (PETROLEUM) , HEAVY STRAIGHT-RUN		> 0 but < 2.5 tpy
000091-20-3	NAPHTHALENE		> 0 but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	200000	
0NY075-00-0	PARTICULATES		>= 2.5 tpy but < 10 tpy
000127-18-4	PERCHLOROETHYLENE		> 0 but < 10 tpy
000108-95-2	PHENOL		> 0 but < 10 tpy
0NY075-00-5	PM-10	12820	
007782-49-2	SELENIUM		> 0 but < 10 tpy
000100-42-5	STYRENE		> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	195620	
000108-88-3	TOLUENE		> 0 but < 10 tpy
0NY100-00-0	TOTAL HAP		>= 2.5 tpy but < 10 tpy
000079-01-6	TRICHLOROETHYLENE		> 0 but < 10 tpy
000075-01-4	VINYL CHLORIDE		> 0 but < 10 tpy
0NY998-00-0	VOC	40000	
001330-20-7	XYLENE, M, O & P MIXT.		> 0 but < 10 tpy
007440-66-6	ZINC		> 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

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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 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)



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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 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.

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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 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

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upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
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FACILITY	ECL 19-0301	49	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-IIII	31	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
FACILITY	40CFR 60-JJJJ	32	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	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	50	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, 33, 34	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

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FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5	Monitoring, Sampling and Measurement 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 201-7	23, 24, 35	Federally Enforceable Emissions Caps
1-FLARE	6NYCRR 201-7	38, 39	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	25	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	51	General Prohibitions - visible emissions limited.
1-YJWTP/00001	6NYCRR 212.3 (a)	41	General Process Emission Sources - emissions from existing emission sources
1-YJWTP/00002	6NYCRR 212.3 (a)	42	General Process Emission Sources - emissions from existing emission sources
1-YJWTP/00003	6NYCRR 212.3 (a)	43	General Process Emission Sources - emissions from existing emission sources
1-YJWTP/00006	6NYCRR 212.3 (a)	44	General Process Emission Sources - emissions from existing emission sources
1-YJWTP/00007	6NYCRR 212.3 (a)	45	General Process Emission Sources - emissions from existing emission sources
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
FACILITY	6NYCRR 221.2	52	Prohibition.
FACILITY	6NYCRR 225-1.2 (b)	26	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.2 (g)	27	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 227-1.3	28	Smoke Emission Limitations.
FACILITY	6NYCRR 227-1.3 (a)	29	Smoke Emission Limitations.



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FACILITY	6NYCRR 227-2.4 (d)	30	Small boilers, small combustion turbines, and small stationary internal combustion engines.
1-SDBLR	6NYCRR 227-2.4 (d)	40	Small boilers, small combustion turbines, and small stationary internal combustion engines.
2-ENGIN	6NYCRR 227-2.4 (f) (1)	47	Emission limit for natural gas fired engines.
2-ENGIN/00033	6NYCRR 227-2.4 (f) (2)	48	Emission limit for engines running on landfill gas.
1-ENGIN	6NYCRR 227-2.4 (f) (3)	36	Emission limit for distillate oil fired engines.
1-FLARE	6NYCRR 227-2.4 (g)	39	Other combustion installations.
1-ENGIN	6NYCRR 227-2.6	37	Testing, monitoring, and reporting requirements
2-ENGIN	6NYCRR 227-2.6	46	Testing, monitoring, and reporting requirements
FACILITY	6NYCRR 231-6	24	Mods to Existing Major Facilities in Nonattainment and Attainment Areas of the State in the OTR
1-FLARE	6NYCRR 231-6.1	38	Applicability

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



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Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

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



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as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

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

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

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

6 NYCRR 201-6.4 (d) (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



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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 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, YONKERS JOINT WWTP has been determined to be subject to the following regulations:

40 CFR Part 60, Subpart IIII

40 CFR Part 60, Subpart JJJJ

6 NYCRR 211.1

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

6 NYCRR 212.3 (a)

This rule requires compliance with the degree of control specified in Tables 2, 3 and 4 for existing (on or before July 1, 1973) process emission sources.

6 NYCRR 221.2

6 NYCRR 225-1.2 (b)

Sulfur-in-fuel limitations for oil or solid fuel fired facilities effective through June 30, 2014.



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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 227-1.3

6 NYCRR 227-1.3 (a)

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

6 NYCRR 227-2.4 (d)

This section includes NO_x RACT requirements for small boilers, small combustion turbines, and small stationary internal combustion engines.

6 NYCRR 227-2.4 (f) (1)

Presumptive NO_x RACT emission limit for natural gas fired stationary internal combustion engines.

6 NYCRR 227-2.4 (f) (2)

This regulation sets the limit for emissions of oxides of nitrogen from internal combustion engines running on landfill gas at 2.0 grams per brake horsepower-hour. The owner/operator of the engine must test the emissions one during the term of the permit.

6 NYCRR 227-2.4 (f) (3)

Presumptive NO_x RACT emission limit for distillate oil fired stationary internal combustion engines.

6 NYCRR 227-2.4 (g)

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



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6 NYCRR 227-2.6

This regulation establishes the compliance testing, monitoring, and reporting requirements for NOx RACT affected stationary combustion installations.

6 NYCRR 231-6.1

This section outlines the applicability of this Subpart.

6 NYCRR Subpart 201-7

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

6 NYCRR Subpart 231-6

This Subpart applies to modifications to existing major facilities in non-attainment areas and attainment areas of the State within the OTR.

Compliance Certification

Summary of monitoring activities at YONKERS JOINT WWTP:

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

FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	24	monitoring of process or control device parameters as surrogate
1-FLARE	38	monitoring of process or control device parameters as surrogate
1-FLARE	39	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
FACILITY	26	work practice involving specific operations
FACILITY	27	work practice involving specific operations
FACILITY	28	record keeping/maintenance procedures
FACILITY	29	monitoring of process or control device parameters as surrogate
FACILITY	30	record keeping/maintenance procedures
1-SDBLR	40	record keeping/maintenance procedures
2-ENGIN	47	intermittent emission testing
2-ENGIN/00033	48	intermittent emission testing
1-ENGIN	36	monitoring of process or control device parameters as surrogate
1-ENGIN	37	intermittent emission testing



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2-ENGIN

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intermittent emission testing

Basis for Monitoring

The Facility is monitored for Nitrogen oxides, particulates and other criteria pollutants.