

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 3-5518-00342/00019    Renewal Number: 1**



**08/18/2006**

**Facility Identification Data**

Name: YONKERS JOINT WWTP  
Address: 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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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**

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Application for renewal of Air Title V Facility.

**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.)

<b>Criteria Pollutant</b>	<b>Attainment Status</b>
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.

Wastewater from 102" diameter and 48" diameter sewer lines converge at the South Yonkers screen house. Wastewater is combined and conveyed to the south control structure. In the event of an overflow or emergency condition, wastewater is diverted from the YJWWTP. The diverted wastewater enters a mechanical bar screen and then flows to swirl concentrators to remove floatables. The diverted wastewater is then directed to a chlorine contact tank for disinfection and discharged through an outfall to the Hudson River.

Wastewater from the North Yonkers pump station enters the facility through the North control structure and is then directed to the South control structure. Combined influent waste water is conveyed from the South control structure, enters the screening/grit building and is screened via 3 influent channels to remove rags and other large debris using bar screens. Wastewater then enters the three aerated grit

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chambers located adjacent to the screening/grit building. The aerated grit chambers use process air to remove grit, which settles at the bottom of the chambers. Effluent from the aerated grit chambers enters the primary influent chamber.

The primary influent chamber channel transfers wastewater from the aerated grit chambers to the primary settling tanks. A total of 4 primary settling tanks are used to remove suspended solids and associated BOD from the sewage. Primary effluent passes over weirs at the downstream end of each tank through effluent troughs to the primary effluent channel. Settled sludge is pumped from the primary tanks to degritting cyclones or directly to the primary thickening tanks, while floatable material is skimmed and flows to the primary scum box.

Effluent from the primary tanks enters the settled sludge control structure, which regulates the quantity of wastewater, which enters the aeration basins (excess wastewater flows to the north chlorine contact tank). Effluent is conveyed through a channel to the aeration basin influent channels. Process air is added to inhibit solids settling in the influent channels. A total of 6 aeration basins, each divided into 4 passes, are available to provide secondary treatment of wastewater. Process air is provided to the aeration basins to provide oxygen for aerobic microorganisms. Mixed liquor, from the aeration basins, discharges to the final settling tank influent channel.

The final settling tank influent channel transfers effluent from the aeration basins to the final settling tanks. Process air is added to inhibit solids settling in the channel. A total of nine settling tanks are used to separate activated sludge from the secondary effluent. Final effluent passes over weirs and flows to the North chlorine contact tanks. Most settled sludge is pumped back to the aeration basins with excess sludge and skimmed floatables being pumped to flotation thickeners.

The North chlorine contact tanks are used for disinfection of the wastewater prior to its discharge from the YJWWTP. Sodium hypochlorite is added through diffusers to the 2 inside channels of the tank. Effluent from these channels is then divided equally between the south chlorine contact tanks and the 2 outside channels of the North chlorine contact tank. Effluent from the contact tanks is discharged via 2 outfalls to the Hudson River.

The YJWWTP provides anaerobic digestion of primary and secondary sludge. Primary sludge is gravity thickened in 3 primary thickeners prior to being pumped to the primary digesters. Waste activated sludge from secondary treatment is thickened in six flotation thickeners prior to being pumped to the secondary digesters.

The sludge digestion process produces a gas containing primarily methane and carbon dioxide. This 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 3 waste burners.

Digested sludge is pumped from the primary and secondary digesters to 2 sludge storage tanks. Sludge is pumped from the storage tanks to the dewatering building where the sludge concentration is increased to an average of 28% solids using centrifuges. Supernatant from the dewatering operation is pumped to the

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primary tank effluent channel. Dewatered sludge is stored in a sludge loading area prior to being trucked off-site for disposal.

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 SCO boilers each rated at 3.4 mmbtu/hr.

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

It is further defined by the following process(es):

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

Emission unit 1ENGIN - Two dual fuel reciprocating engines used to drive the air blowers. The engines will be operated only one at a time.

It is further defined by the following process(es):

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

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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.

Emission unit 1FLARE - Three waste gas burners. Excess digester gas is combusted in the three (3) waste gas burners. Each burner is designed to combust 24,000 cubic feet of digester gas per hour.

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

00015, 00016, 00017

It is further defined by the following process(es):

Process: FLR is located at NORTH END OF WWTP, Building PLANT - Excess Gas from the Primary and Secondary digesters is combusted in three (3) Waste Gas Burners. The process is located outdoors at the plant's property.

Emission unit 1SDBLR - Two boilers each rated at 23 mmbtu/hr which combust digester gas and No. 2 fuel oil. Boilers are used to provide process steam and plant heating.

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

00012, 00013

It is further defined by the following process(es):

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):

00001, 00002, 00003, 00006, 00007

It is further defined by the following process(es):

Process: AGC is located at WEST OF SCREEN/GRIT, Building SCRENGRIT - This process consists of the removal of Grit found in waste water when it passes through three aerated chambers. The chambers are covered. The ventilation air is directed to a mist scrubber odor control system for control of hydrogen sulfide.

Process: BAR is located at FIRST, Building SCRENGRIT - This process comprises the screening of waste water for removal of debris prior to wastewater treatment. Wastewater is diverted into three influent channels. Each channel passes through a bar screen to remove rags and other debris. Air from the building is ventilated through a louvered exhaust.

Process: CSO is located at Building CSO - Process consists of wastewater handling and treatment activities in the South Yonkers Screen house. Wastewater from a 102" and 48" diameter sewer line is

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combined and conveyed to the South control structure. In the event of an overflow or emergency condition, wastewater can be diverted from the YJWWTP. Prior to discharge, diverted wastewater is directed through a mechanical bar screen to remove large solids, a swirl concentrator to remove floatables, and a chlorine contact for disinfection using sodium hypochlorite. Ventilation air from the building is directed to a mist scrubber system for control of hydrogen sulfide odor.

Process: DW1 is located at Building DEWATERING - Dewatering of municipal sewage sludge (truck loading area, centrate tank and sludge storage hoppers). Ventilation air from these areas is directed to a mist scrubber for control of odor-causing compounds. If the odor control system is not operational, ventilation air is directed to the Primary Thickener and Dewatering building odor control system (EP 00003).

Process: DW2 is located at Building DEWATERING - Dewatering of municipal sewage sludge (sludge pump room and centrifuge room). Ventilation air from these areas is directed to a mist scrubber odor control system for control of hydrogen sulfide.

Process: PST is located at NORTH OF SCREEN/GRIT, Building SCRENGRIT - Process consists of treatment of wastewater in four (4) emergency settling tanks for removal of suspended solids and associated BOD. Wastewater enters the primary tanks from the primary settling tanks influent channel. Effluent from the tanks passes over a weir and is discharged to the primary settling tanks effluent channel. Process is covered and the ventilation air is directed to a mist scrubber odor control system for control of hydrogen sulfide.

Process: PTH is located at Building PRIMTHIK - Sludge is thickened in three (3) primary thickening tanks to increase the sludge solids content. Thickened sludge is pumped to the primary digesters. Ventilation air from the building is directed to a mist scrubber odor control system for control of hydrogen sulfide. Under normal operation, two mist scrubbing units are used. When the dewatering facility odor control system is not operating (EP 00002), ventilation air from the dewatering building is combined with ventilation air from the primary thickener building and directed to the mist scrubbers.

Process: SSD is located at Building FLOTATION - This process comprises the anaerobic digestion of secondary sludge.

Process: STK is located at NORTH OF PRIMARY THI, Building PLANT - Storage of Thickened Primary and Secondary Sludge in two (2) sludge storage tanks. The capacity of each tank is 60,170 cubic feet. Tanks are passively vented using a gooseneck vent located on top of each tank. The vented air is directed to the secondary scrubber.

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

It is further defined by the following process(es):

Process: BL1 is located at Building DEWATERING - One 8.5 mmBtu/hr boiler operating on No. 2 Oil.

Process: BL2 is located at Building DEWATERING - One 8.5 mmBtu/hr boiler operated on Digester Gas.

**Title V/Major Source Status**

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

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following information:

The facility is major due its emissions of nitrogen oxides and volatile organic compounds.

**Program Applicability**

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

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

**NOTES:**

**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

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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

### 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

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

<b>SIC Code</b>	<b>Description</b>
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.

<b>SCC Code</b>	<b>Description</b>
1-03-007-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - PROCESS GAS POTW DIGESTER GAS-FIRED BOILER
1-03-004-03	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL OIL <10MMBTU/HR    **
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
2-03-007-02	INTERNAL COMBUSTION ENGINES - COMMERCIAL/INSTITUTIONAL COMMERCIAL/INSTITUTIONAL IC ENGINE - DIGESTER GAS
2-02-001-07	RECIPROCATING IC ENGINE: POTW DIGESTER GAS INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) RECIPROCATING: EXHAUST
5-01-004-10	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - LANDFILL DUMP WASTE GAS DESTRUCTION: WASTE GAS FLARES
5-01-007-99	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT OTHER NOT CLASSIFIED
5-01-007-81	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: ANAEROBIC DIGESTER
5-01-007-71	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: GRAVITY SLUDGE THICKENER
5-01-007-07	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: HEADWORKS SCREENING
5-01-007-20	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: PRIMARY SETTLING TANK
5-01-007-92	SOLID WASTE DISPOSAL - GOVERNMENT

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5-01-007-15 SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT  
 POTW: SLUDGE CENTRIFUGE  
 SOLID WASTE DISPOSAL - GOVERNMENT  
 SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT  
 POTW:AERATED GRIT CHAMBER

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series 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 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 (HAP)	> 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 (HAP)	> 0	but < 10 tpy
000075-07-0	ACETALDEHYDE (HAP)	> 0	but < 10 tpy
000107-02-8	ACROLEIN (HAP)	> 0	but < 10 tpy
069418-26-4	ACRYL- (2-ACRYLOXYETHYL) TRIMETHYLAMMONIUM CHLORIDE COPOLYMER	> 0	but < 2.5 tpy
007664-41-7	AMMONIA	>= 2.5	tpy but < 10 tpy
007440-38-2	ARSENIC (HAP)	> 0	but < 10 tpy
000071-43-2	BENZENE (HAP)	> 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- (HAP)	> 0	but < 10 tpy
007440-41-7	BERYLLIUM (HAP)	> 0	but < 10 tpy
000117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE (HAP)	> 0	but < 10 tpy

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000085-68-7	BUTYL BENZYL PHTHALATE	> 0 but < 2.5 tpy
007440-43-9	CADMIUM (HAP)	> 0 but < 10 tpy
000630-08-0	CARBON MONOXIDE	110800
000056-23-5	CARBON TETRACHLORIDE (HAP)	> 0 but < 10 tpy
007782-50-5	CHLORINE (HAP)	> 0 but < 10 tpy
000067-66-3	CHLOROFORM (HAP)	> 0 but < 10 tpy
007440-47-3	CHROMIUM (HAP)	> 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 (HAP)	> 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 (HAP)	> 0 but < 10 tpy
000540-59-0	ETHENE, 1,2-DICHLORO	> 0 but < 2.5 tpy
000075-35-4	ETHENE, 1,1-DICHLORO (HAP)	> 0 but < 10 tpy
000100-41-4	ETHYLBENZENE (HAP)	> 0 but < 10 tpy
000050-00-0	FORMALDEHYDE (HAP)	> 0 but < 10 tpy
0NY100-00-0	HAP	>= 2.5 tpy but < 10 tpy
007783-06-4	HYDROGEN SULFIDE	> 0 but < 2.5 tpy
000067-63-0	ISOPROPYL ALCOHOL	> 0 but < 2.5 tpy
007439-92-1	LEAD (HAP)	> 0 but < 10 tpy
007439-96-5	MANGANESE (HAP)	> 0 but < 10 tpy
007439-97-6	MERCURY (HAP)	> 0 but < 10 tpy
000078-93-3	METHYL ETHYL KETONE (HAP)	> 0 but < 10 tpy
001634-04-4	METHYL TERTBUTYL ETHER (HAP)	> 0 but < 10 tpy
064741-41-9	NAPHTHA (PETROLEUM), HEAVY STRAIGHT-RUN	> 0 but < 2.5 tpy
000091-20-3	NAPHTHALENE (HAP)	> 0 but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS (HAP)	> 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 (HAP)	> 0 but < 10 tpy
000108-95-2	PHENOL (HAP)	> 0 but < 10 tpy
0NY075-00-5	PM-10	12820
007782-49-2	SELENIUM (HAP)	> 0 but < 10 tpy
000100-42-5	STYRENE (HAP)	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	195620
000108-88-3	TOLUENE (HAP)	> 0 but < 10 tpy
000079-01-6	TRICHLOROETHYLENE (HAP)	> 0 but < 10 tpy
000075-01-4	VINYL CHLORIDE (HAP)	> 0 but < 10 tpy
0NY998-00-0	VOC	40000
001330-20-7	XYLENE, M, O & P MIXT. (HAP)	> 0 but < 10 tpy
007440-66-6	ZINC	> 0 but < 2.5 tpy

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

An emergency constitutes an affirmative defense to an action brought 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 and/or operator

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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;

(3) During the period of the emergency the facility owner and/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 and/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 and/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 - 6NYCRR Part 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 6NYCRR 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 201-6.3(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 201-6.3(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 201-6.5(a)(2)**

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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 201-6.5(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 - 6NYCRR Part 201-6.5(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 Part 201-6.5(a)(6)**

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

**Item I:            Severability - 6 NYCRR Part 201-6.5(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 201-6.5(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

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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 201-6.5(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

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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

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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>Short Description</b>	<b>Condition</b>
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	37
FACILITY	40CFR 68	Chemical accident prevention provisions	22
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	23
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	10
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	38
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	11
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	12
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	13, 14
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	15
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	26, 29, 30
FACILITY	6NYCRR 201-6.5(a) (4)	General conditions	16
FACILITY	6NYCRR 201-6.5(a) (7)	General conditions	
Fees 2			
FACILITY	6NYCRR 201-6.5(a) (8)	General conditions	17
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for	3

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		Recordkeeping and Reporting of Compliance Monitoring	
FACILITY	6NYCRR 201-6.5(c)(2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(c)(3)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	27
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	5
FACILITY	6NYCRR 201-6.5(d)(5)	Compliance schedules	18
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	6
FACILITY	6NYCRR 201-6.5(f)(6)	Off Permit Changes	19
FACILITY	6NYCRR 202-1.1	Required emissions tests.	20
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	39
FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	21
1-FLARE	6NYCRR 211.3	General Prohibitions - visible emissions limited	24, 32
1-SDBLR	6NYCRR 211.3	General Prohibitions - visible emissions limited	25, 34
1-YJWTP/00002	6NYCRR 212.3(a)	General Process Emission Sources - emissions from existing emission sources	35
1-YJWTP/00003	6NYCRR 212.3(a)	General Process Emission Sources - emissions from existing emission sources	36
FACILITY	6NYCRR 215	Open Fires	9
FACILITY	6NYCRR 225-1.2(d)	Sulfur-in-fuel limitations - Table 2	28
1-SDBLR	6NYCRR 227-2.4(d)	RACT for Oxides of Nitrogen - small boilers.	33
1-ENGIN	6NYCRR 227-2.4(f)	Stationary internal combustion engines.	31

**Applicability Discussion:**

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

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties

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assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 200-.6

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

6NYCRR Part 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

6NYCRR Part 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.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 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.

6NYCRR Part 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

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pollution control requirements, regulations, or law.

6NYCRR Part 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.

6NYCRR 201-6.5(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.

6NYCRR 201-6.5(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.

6NYCRR 201-6.5(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.

6NYCRR Part 201-6.5(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.

6NYCRR Part 201-6.5(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

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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.

6NYCRR Part 201-6.5(c)(3)

This regulation specifies that the permit incorporate all reporting requirements associated with an applicable federal rule, the submittal of any required monitoring reports at least every 6 months, and 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.

6NYCRR Part 201-6.5(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.

6NYCRR 201-6.5(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.

6NYCRR Part 201-6.5(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.

6NYCRR 201-6.5(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.

6NYCRR Part 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.

6NYCRR Part 202-2.1

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

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must

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retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

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:

6NYCRR 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.

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6NYCRR 225-1.2 (d)

The sulfur-in-fuel limitations for residual and distillate oil and for solid fuel are listed in Tables 1,2 and 3 or 6 NYCRR Part 225-1.2(c), (d) and (e)

6NYCRR 227-2.4 (d)

This rule specifies that the reasonably available control technology (RACT) requirement for small boilers (< or = 50 million BTUs/hr) at Title V facilities consists of an annual tune-up.

6NYCRR 227-2.4 (f)

This sections sets NOx RACT limitations for stationary internal combustion engines.

**Compliance Certification**

Summary of monitoring activities at YONKERS JOINT WWTP:

<b>Location Facility/EU/EP/Process/ES</b>	<b>Type of Monitoring</b>	<b>Cond No.</b>
FACILITY	work practice involving specific operations	14
FACILITY	record keeping/maintenance procedures	27
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
FACILITY	record keeping/maintenance procedures	7
1-FLARE	monitoring of process or control device parameters as surrogate	24
1-FLARE	monitoring of process or control device parameters as surrogate	32
1-SDBLR	monitoring of process or control device parameters as surrogate	25
1-SDBLR	monitoring of process or control device parameters as surrogate	34
FACILITY	work practice involving specific operations	28
1-SDBLR	record keeping/maintenance procedures	33
1-ENGIN	monitoring of process or control device parameters as surrogate	31

**Basis for Monitoring**

The facility will be monitoring opacity, sulfur content of any oil purchased and pH ranges in the odor control systems.