

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6202-00007/00015 Modification Number: 1



05/17/2007

Facility Identification Data

Name: NYC-DEP NORTH RIVER WPCP
Address: 725 W 135TH ST
NEW YORK, NY 10031

Owner/Firm

Name: NYC DEPT OF ENVIRONMENTAL PROTECTION
Address: 96-05 HORACE HARDING EXPWY
FLUSHING, NY 11368, USA
Owner Classification: Municipal

Permit Contacts

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Permit Description

Introduction

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

Summary Description of Proposed Project

This title v modification is being done in response to the epa order based on nypirg and nycdep petition,

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and negotiations between nycdep and nysdec after issuance of the original permit in october 2002.

The facility has ten (10) dual fuel engines firing digester gas with #2 oil as the pilot fuel. The facility also has three (3) 32.3 mmbtu/hr. And one (1) 8.6 mm/btu/hr. Duel fuel hot water boilers and two (2) emergency generators and one 200 kw black start engine for emergency generator (exempt). The facility has three (3) major odor control systems consisting of a combination of wet scrubbers and activated carbon beds.

The plant is undergoing modification constructions at two of the plant's three major odor control systems. The modification constructions include installing additional wet scrubbers and activated carbon vessels to the north and south odor control systems

The Department acknowledges that the permittee has filed a NOx RACT variance request for the engines in Emission Unit 1-PUMPE. Stack testing will be required before expiration date of the current permit to determine the NOx emissions from these engines. An approvable stack testing protocol shall be submitted within sixty days of permit issuance. Stack testing shall be conducted in accordance with the approved protocol within thirty days of approval. A report summarizing the results of the stack test shall be submitted within sixty days of the stack test.

The 9.0 gm/bhp-hr limit is interim limit.

The Department will establish alternative NOx RACTlimits based on the approved stack test results.

Attainment Status

NYC-DEP NORTH RIVER WPCP is located in the town of MANHATTAN in the county of NEW YORK.

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)	MODERATE NON-ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT



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

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

Facility Description

This is a 170 million gallon per day publically owned secondary wastewater treatment plant. The facility has ten (10) dual fuel engines firing digester gas with #2 oil as the pilot fuel. The facility has three (3) major odor control systems consisting of a combination of wet scrubbers and activated carbon beds. The facility also has three (3) 32.3 mmbtu/hr. And one (1) 8.6 mm/btu/hr. Duel fuel hot water boilers and two (2) emergency generators.

Permit Structure and Description of Operations

The Title V permit for NYC-DEP NORTH RIVER WPCP 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.

NYC-DEP NORTH RIVER WPCP is defined by the following emission unit(s):

Emission unit 3BLERS - THIS EMISSION UNIT CONSISTS OF 4 CLEAVER BROOKS BOILERS FIRING #2 DIESEL OIL AND DIGESTER GAS. BOILERS #1, #3, #4 ARE 32.3 MILLION BTU/HR INPUT; BOILER #2 IS 8.6 MMBTU/HR INPUT AND SHARES A STACK WITH BOILER #3. MODIFICATIONS ARE PRESENTLY UNDERWAY AT THE PLANT TO ALLOW THE 3 LARGE BOILERS TO ALSO BE FUELED WITH UTILITY (NATURAL) GAS. NORMAL OPERATION REQUIRES UTILIZATION OF 2 LARGE BOILERS & THE SMALL BOILER DURING THE

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HEATING SEASON; DURING THE WARM WEATHER MONTHS, 1 LARGE & THE SMALL BOILER OR 2 LARGE BOILERS ARE NORMALLY SUFFICIENT.

Emission unit 3BLERS is associated with the following emission points (EP):
00N11, 00N14, 00N17

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

Process: BDF is located at Building MAIN - THIS PROCESS IS WHEN THE BOILERS FIRE #2 DIESEL OIL. NORMAL OPERATION REQUIRES UTILIZATION OF 2 LARGE BOILERS & THE SMALL BOILER DURING THE HEATING SEASON; DURING THE WARM WEATHER MONTHS 1 LARGE & THE SMALL BOILER OR 2 LARGE BOILERS ARE NORMALLY SUFFICIENT.

Process: BGG is located at Building MAIN - THIS PROCESS IS WHEN THE BOILERS FIRE EITHER DIGESTER GAS OR NATURAL GAS. NORMAL OPERATION REQUIRES UTILIZATION OF 2 LARGE BOILERS & THE SMALL BOILER DURING THE HEATING SEASON; DURING THE WARM WEATHER MONTHS 1 LARGE & THE SMALL BOILER OR 2 LARGE BOILERS ARE NORMALLY SUFFICIENT.

Emission unit 5SLUDG - THIS UNIT CONSISTS OF THE PLANT'S SLUDGE HANDLING PROCESSES. THESE WASTEWATER TREATMENT PROCESSES' INCLUDE 10 GRAVITY THICKENING TANKS, 8 SLUDGE DIGESTER TANKS, AND 1 SLUDGE STORAGE TANK AND GAS HOLDER AND ASSOCIATED OPERATIONS. THE THICKENERS, SLUDGE STORAGE TANK AND FUGITIVE EMISSIONS FROM THE GAS HOLDER ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM CONSISTING OF WET CHEMICAL SCRUBBERS AND CARBON ADSORBERS.

Emission unit 5SLUDG is associated with the following emission points (EP):
SUTH1

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

Process: OSS is located at Building SDOCK - THIS PROCESS IS THE SLUDGE STORAGE (SS) UNIT PROCESS WHICH CONSISTS OF ONE (1) 120,000 CUFT SLUDGE STORAGE TANK AND THE RETURN SLUDGE OVERFLOW BOXES & WELLS WHICH ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM.

Process: SAD is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE ANAEROBIC DIGESTION (SAD) PROCESS CONSISTING OF EIGHT (8) 200,000 CUBIC FEET DIGESTION TANKS AND DIGESTER OVERFLOW BOXES. GASES PRODUCED IN THE DIGESTION PROCESS ARE COLLECTED AND EITHER STORED IN THE GAS HOLDER OR DIRECTED TO THE ENGINES OR BOILERS AS A PRIMARY FUEL SOURCE. FUGITIVE EMISSIONS FROM THE DIGESTER RELIEF VALVES ARE VENTED INTO THE SOUTH ODOR CONTROL SYSTEM.

Process: SGT is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE GRAVITY THICKENING (SGT) PROCESS CONSISTING OF 10 (40,000 CUBIC FEET) THICKENING TANKS. THESE ARE COVERED AND THE COLLECTED AIR IS VENTED THROUGH THE SOUTH ODOR CONTROL SYSTEM WHICH CONSISTS OF WET CHEMICAL SCRUBBERS & CARBON ADSORPTION UNITS.

Process: WGH is located at Building SDOCK - THIS PROCESS IS THE WIGGINS GAS HOLDER WHICH IS A 135,000 CU FT TANK FOR STORAGE OF DIGESTER GAS PRODUCED BY THE NR PLANT. FUGITIVE EMISSIONS FROM THIS TANK ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM.

Process: WGT is located at Building SDOCK - THIS PROCESS IS THE GAS HOLDER WHICH IS A

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135,000 CU FT TANK FOR STORAGE OF DIGESTER GAS PRODUCED BY THE NORTH RIVER PLANT. FUGITIVE EMISSIONS FROM THIS TANK ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM.

Emission unit 6MISCL - THIS UNIT CONSISTS OF THE PLANT'S ONE GASOLINE DISPENSING PUMP AND ONE WASTE GAS TOWER TO FLARE EXCESSIVE SLUDGE GAS.

Emission unit 6MISCL is associated with the following emission points (EP):
EGEN1, EGEN2, FLARE

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

Process: FLR is located at Building SDOCK - THIS PROCESS IS THE FLARING OF EXCESSIVE SLUDGE DIGESTER GAS. AT TIMES THAT THE SLUDGE DIGESTER GAS PRODUCED AT THE PLANT CAN NOT BE UTILIZED IN EITHER THE ENGINES OR BOILERS (AND THE WIGGINS GAS HOLDER REACHES ITS CAPACITY) THE EXCESSIVE SLUDGE DIGESTER GAS WILL BE BURNED AT THE WASTE GAS TOWER.

Process: GAS is located at RAMP, Building SDOCK - THIS PROCESS IS THE PLANT'S GASOLINE STATION. THE STATION HAS ONE 550 GALLON TANK AND ONE DISPENSING PUMP.

Process: GEN is located at Building MAIN - THIS PROCESS INCLUDES OPERATIONS OF THE PLANT'S TWO EMERGENCY TURBINE GENERATORS FIRING DIESEL FUEL #2. THESE TWO EMERGENCY TURBINE GENERATORS TGEN1 AND TGEN2 EACH RATED 2800 KW AND EXHAUST THROUGH THEIR OWN STACKS EGEN1 AND EGEN2. THESE TWO TURBINE GENERATORS PROVIDE BACK UP POWER FOR THE PLANT OPERATION IN EVENTS OF ELECTRICAL POWER SUPPLY INTERUPTION OR FAILURE, AND PARTICIPATE IN NY STATE DEMAND REDUCTION PROGRAMS, WHEN NEEDED. ONE 200 KW BLACK START ENGINE GENERATOR (EXEMPT) IS FOR BLACK START OF THESE TWO ENERGENCY TURBINE GENERATORS. TOTAL THROUGHPUT IS ESTIMATED BASED ON ANNUALLY 200 HRS OPERATION OF BOTH EMERGENCY TURBINE GENERATORS..

Emission unit 2BLENG - THIS EMISSION UNIT CONSISTS OF FIVE (5) MIRRLEES-BLACKSTONE K 5 940 BHP DUAL FUEL-FIRED ENGINES. THESE ENGINES PROVIDE POWER TO OPERATE THE PROCESS AIR BLOWERS AT THE WWTP. THE PRIMARY FUEL IS THE PLANT'S DIGESTER GAS WITH #2 DIESEL OIL AS THE PILOT FUEL (~6-8% BTU VALUE PILOT). THESE ENGINES ALSO OPERATE WITH #2 DIESEL AS THE PRIMARY FUEL AND PILOT MODIFICATIONS IMPLEMENTED TO PERMIT THE ENGINES TO ALSO OPERATE WITH NATURAL GAS AS THE PRIMARY FUEL WITH DIESEL PILOT IN 2000. THE ENGINES CAN ALSO OPERATE WITH BLENDS OF DIESEL & GAS AS THE PRIMARY FUEL WITH DIESEL PILOT.

Emission unit 2BLENG is associated with the following emission points (EP):
00N10, 00N12, 00N13, 00N15, 00N16

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

Process: DIB is located at Building MAIN - THIS PROCESS IS SUPPLEMENTAL OPERATION MODE TO THE PROCESS DUB WHEN THE ENGINES CANNOT BE OPERATED IN DUAL FUEL MODE, THESE ENGINES WILL FIRE 100% DIESEL. APPROXIMATELY 80% OF THE TIME THE PLANT OPERATES WITH 3 BLOWER ENGINES: DURING PERIODS OF LOW WASTE WATER FLOW ~20% OF TIME THE PLANT OPERATES WITH 2 BLOWER ENGINES. FOURTH BLOWER ENGINE IS ONLY NEEDED OCCASIONALLY FOR PEAK DISSOLVED OXYGEN DEMAND PERIODS (LESS THAN 5% OF TIME). FIFTH ENGINE WILL ALWAYS BE

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DOWN FOR STANDBY OR MAINTENANCE PURPOSES.

Process: DUB is located at Building MAIN - THIS PROCESS IS FOR THE BLOWER ENGINES' PRIMARY OPERATION MODE. UNDER THIS PROCESS, THE ENGINES FIRE DUAL FUEL (SLUDGE DIGESTER GAS OR NATURAL GAS) WITH DIESEL OIL AS PILOT FUEL (~6-8%). THE MODIFICATIONS TO ALLOW FIRING WITH NATURAL GAS WERE BEING COMPLETED DURING EARLY 2000. APPROXIMATELY 80% OF THE TIME THE PLANT OPERATES WITH 3 BLOWER ENGINES; DURING PERIODS OF LOW WASTEWATER FLOW ~20% OF TIME THE PLANT OPERATES WITH 2 BLOWER ENGINES. FOURTH BLOWER ENGINE IS ONLY NEEDED OCCASIONALLY FOR PEAK DISSOLVED OXYGEN DEMAND PERIODS (LESS THAN 5% OF TIME). FIFTH ENGINE WILL ALWAYS BE DOWN FOR STANDBY OR MAINTENANCE PURPOSES.

Emission unit 1PUMPE - THIS EMISSION UNIT CONSISTS OF FIVE (5) DELAVAL TRANSAMERICAN R-46 1700 BHP DUAL FUEL-FIRED ENGINES. THESE ENGINES PROVIDE POWER TO OPERATE THE MAIN SEWAGE PUMPS AT THE WWTP. THE PRIMARY FUEL IS THE PLANT'S DIGESTER GAS WITH #2 DIESEL FUEL OIL AS THE PILOT FUEL (~8% BTU VALUE PILOT). THE PUMP ENGINES ALSO OPERATE WITH #2 DIESEL AS THE PRIMARY FUEL AND MODIFICATIONS IMPLEMENTED TO PERMIT THE ENGINES TO ALSO OPERATE WITH NATURAL GAS AS THE PRIMARY FUEL IN 1999 ALSO WITH DIESEL PILOT. THE ENGINES CAN ALSO BE OPERATED WITH FUEL BLENDS OF OIL & DIGESTER GAS AND EVENTUALLY WITH OIL & NATURAL GAS.

Emission unit 1PUMPE is associated with the following emission points (EP): 000N3, 000N4, 000N6, 000N7, 000N9

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

Process: DIE is located at Building MAIN - THIS PROCESS IS SUPPLEMENTAL OPERATION MODE TO THE PROCESS DUA WHEN THE ENGINES CANNOT BE OPERATED IN DUAL FUEL MODE, THESE ENGINES WILL FIRE 100% DIESEL. APPROXIMATELY 70% OF THE TIME THE PLANT OPERATES WITH 2 PUMP ENGINES; DURING PERIODS OF PEAK DRY WEATHER FLOW ~20 - 25% OF TIME PLANT OPERATES WITH 3 ENGINES. FOURTH PUMP ENGINE IS ONLY NEEDED FOR PEAK WET WEATHER FLOW. FIFTH PUMP ENGINE WILL ALWAYS BE DOWN FOR STANDBY OR MAINTENANCE PURPOSES.

Process: DUA is located at Building MAIN - THIS PROCESS IS THE PUMP ENGINES' PRIMARY OPERATION MODE. UNDER THIS PROCESS, THE ENGINES FIRE DUAL FUEL (SLUDGE DIGESTER GAS OR NATURAL GAS) WITH DIESEL OIL AS PILOT FUEL. THE MODIFICATIONS TO ALLOW FIRING WITH NATURAL GAS WERE COMPLETED DURING 1999. APPROXIMATELY 70% OF THE TIME THE PLANT OPERATES WITH 2 PUMP ENGINES; DURING PERIODS OF PEAK DRY WEATHER FLOW ~20 - 25% OF TIME PLANT OPERATES WITH 3 ENGINES. FOURTH PUMP ENGINE IS ONLY NEEDED FOR PEAK WET WEATHER FLOW. FIFTH PUMP ENGINE WILL ALWAYS BE DOWN FOR MAINTENANCE OR STANDBY PURPOSES.

Emission unit 4WWTRE - THE UNIT CONSISTS OF THE PLANT'S WASTEWATER TREATMENT PROCESSES. THESE PROCESSES INCLUDE THE HEADWORKS, INFLUENT CHANNELS, RESIDUALS AREA AND WASTE SLUDGE WET WELL (WSWW), PRIMARY SETTLING TANKS (PSTs), AERATION TANKS (ATs), AND FINAL SETTLING AND CHLORINE CONTACT TANKS. AIR FROM THE HEADWORKS, PSTs, INFLUENT CHANNELS,

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RESIDUALS AREA, WSWW, AND ATs IS COLLECTED & VENTED THROUGH WET CHEMICAL SCRUBBERS AND CARBON ADSORBERS PRIOR TO BEING EXHAUSTED FROM 2 STACKS. THIS UNIT ALSO INCLUDES THE 2 MIXED LIQUOR CHANNELS (AERATION EFFLUENT CHANNELS) WHICH ARE COVERED WITH THE AIR BEING EXHAUSTED THROUGH 8 SMALL CARBON ADSORBER UNITS EACH WITH 600CFM CAPACITY. PLANNING IS UNDERWAY TO REPLACE THESE 8 CARBON ADSORBERS VIA TIE-IN TO THE PLANT'S SOUTH ODOR CONTROL SYSTEM POSSIBLY BY 2003. MODIFICATION TO CONTINUOUSLY ADJUST THE WATER LEVEL IN THE FINAL SETTLING TANKS EFFLUENT CHANNEL WILL BE COMPLETED BY 2005. EMISSIONS FROM THESE PROCESSES DEPEND ON THE CONCENTRATIONS OF POLLUTANTS IN THE PLANT'S INFLUENT OF WHICH THE PLANT DOES NOT HAVE COMPLETE CONTROL. THEREFORE, THE EMISSIONS ARE BASED ON CURRENTLY AVAILABLE DATA.

Emission unit 4WWTRE is associated with the following emission points (EP):

MXLC1, MXLC2, MXLC3, MXLC4, MXLC5, MXLC6, MXLC7, MXLC8, NRTH1, NRTH2

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

Process: 0AS is located at Building AERATION - THIS PROCESS IS THE PLANT'S WASTEWATER SECONDARY TREATMENT PROCESS. THIS PROCESS INCLUDES 5 ACTIVATED SLUDGE AERATION TANKS @ 330'x74.6'x29.2') AND THE WASTE SLUDGE WET WELL. THIS PROCESS IS COVERED AND THE AIR IS VENTED TO WET CHEMICAL SCRUBBERS AND CARBON ADSORPTION UNITS PRIOR TO BEING EXHAUSTED THROUGH 2 LARGE STACKS.

Process: 0CC is located at Building CHLORCONT - THIS IS THE PLANT'S CHLORINE CONTACT (DISINFECTION) PROCESS. TOTAL OF 4 CHLORINE CONTACT TANKS (639'x28.5'x8').

Process: 0FS is located at Building FINAL - THIS PROCESS IS THE PLANT'S WASTEWATER FINAL SETTLING (FS) PROCESS. THIS PROCESS INCLUDES 16 FINAL SETTLING TANKS (4 BAYS, 250'x74'x10.9') AND THE MIXED LIQUOR CHANNELS WHICH FEED THE FINAL SETTLING TANKS. THE TWO MIXED LIQUOR CHANNELS ARE COVERED AND THE AIR IS VENTED TO 8 SMALL CARBON ADSORBERS WHICH EXHAUST IN THE PLENUM AREA ABOVE THE PLANT BUT BELOW THE SLAB OF THE STATE PARK.

Process: 0PS is located at Building PRIMARY - THIS PROCESS IS THE PLANTS' WASTEWATER HEADWORKS & PRIMARY SETTLING (PS) PROCESS. THIS PROCESS INCLUDES THE HEADWORKS SCREENS, INFLUENT CHANNELS, 8 PRIMARY SETTLING TANKS (6 BAYS, 187.5'x85.8'x11.5') AND RESIDUAL AREAS (SCUM, GRIT & SKIMMINGS COLLECTION) . THIS PROCESS IS COVERED AND THE AIR IS VENTED TO WET CHEMICAL SCRUBBERS AND CARBON ADSORPTION UNITS PRIOR TO BEING EXHAUSTED THRU 2 LARGE STACKS.

Title V/Major Source Status

NYC-DEP NORTH RIVER WPCP is subject to Title V requirements. This determination is based on the following information:

The Facility is a major source and its potential to emit (PTE) for NO_x, VOC, and CO exceed the thresholds identified in 6 NYCRR 201.

Program Applicability

The following chart summarizes the applicability of NYC-DEP NORTH RIVER WPCP with regards to

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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)	YES
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 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.



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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 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

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SCC Codes

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

SCC Code	Description
1-03-005-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL Grades 1 and 2 Oil
1-03-007-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - PROCESS GAS POTW DIGESTER GAS-FIRED BOILER
2-04-003-02	INTERNAL COMBUSTION ENGINES - ENGINE TESTING INTERNAL COMBUSTION ENGINE: ENGINE TESTING - TURBINE Diesel/Kerosene
2-02-004-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Diesel
2-02-004-02	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Dual Fuel (Oil/Gas)
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
5-01-007-60	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: CHLORINE CONTACT TANK
5-01-007-31	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: DIFFUSED AIR ACT SLUDGE
5-01-007-71	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: GRAVITY SLUDGE THICKENER
5-01-007-20	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: PRIMARY SETTLING TANK
5-01-007-40	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: SECONDARY CLARIFIER
5-01-007-89	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT SLUDGE DIGESTER GAS FLARE
4-06-004-01	TRANSPORTATION AND MARKETING OF PETROLEUM PRODUCTS FILLING VEHICLE GAS TANKS - STAGE II Vapor Loss w/o Controls

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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
000079-34-5	1,1,2,2-TETRACHLOROETHANE (HAP)	> 0	but < 10 tpy
000076-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	>= 2.5	tpy but < 10 tpy
000107-06-2	1,2-DICHLOROETHANE (HAP)	> 0	but < 10 tpy
000108-38-3	1,3 DIMETHYL BENZENE (HAP)	> 0	but < 10 tpy
000108-10-1	2-PENTANONE, 4-METHYL (HAP)	> 0	but < 10 tpy
000071-43-2	BENZENE (HAP)	> 0	but < 10 tpy
000098-82-8	BENZENE, (1-METHYLETHYL) (HAP)	> 0	but < 10 tpy
000106-46-7	BENZENE, 1,4-DICHLORO- (HAP)	> 0	but < 10 tpy
000095-50-1	BENZENE, 1,2-DICHLORO	>= 2.5	tpy but < 10 tpy
000095-47-6	BENZENE, 1,2-DIMETHYL (HAP)	> 0	but < 10 tpy
000541-73-1	BENZENE, 1,3-DICHLORO	>= 2.5	tpy but < 10 tpy
000075-27-4	BROMODICHLOROMETHANE	>= 2.5	tpy but < 10 tpy
000075-25-2	BROMOFORM (HAP)	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 100	tpy but < 250 tpy
000056-23-5	CARBON TETRACHLORIDE (HAP)	> 0	but < 10 tpy
000108-90-7	CHLOROBENZENE (HAP)	> 0	but < 10 tpy
000124-48-1	CHLORODIBROMOMETHANE	>= 2.5	tpy but < 10 tpy
000067-66-3	CHLOROFORM (HAP)	> 0	but < 10 tpy
000075-71-8	DICHLORODIFLUOROMETHANE	>= 2.5	tpy but < 10 tpy
000075-09-2	DICHLOROMETHANE (HAP)	> 0	but < 10 tpy
000071-55-6	ETHANE, 1,1,1-TRICHLORO (HAP)	> 0	but < 10 tpy
000079-00-5	ETHANE, 1,1,2-TRICHLORO (HAP)	> 0	but < 10 tpy
000075-34-3	ETHANE, 1,1-DICHLORO- (HAP)	> 0	but < 10 tpy
000075-00-3	ETHANE, CHLORO (HAP)	> 0	but < 10 tpy
000156-59-2	ETHENE, 1,2-DICHLORO-	>= 2.5	tpy but < 10 tpy
000156-60-5	ETHENE, 1,2-DICHLORO-, (E)-C ₂ H ₂ CL ₂	>= 2.5	tpy but < 10 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	>= 40	tpy but < 50 tpy

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007439-92-1	LEAD (HAP)	> 0 but < 10 tpy
000075-69-4	METHANE, TRICHLOROFLUORO-	>= 2.5 tpy but < 10 tpy
000074-83-9	METHYL BROMIDE (HAP)	> 0 but < 10 tpy
000074-87-3	METHYL CHLORIDE (HAP)	> 0 but < 10 tpy
000091-20-3	NAPHTHALENE (HAP)	> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250 tpy
0NY075-00-0	PARTICULATES	>= 2.5 tpy but < 10 tpy
000127-18-4	PERCHLOROETHYLENE (HAP)	> 0 but < 10 tpy
0NY075-00-5	PM-10	>= 2.5 tpy but < 10 tpy
000078-87-5	PROPANE, 1,2-DICHLORO (HAP)	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 50 tpy but < 100 tpy
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	>= 25 tpy but < 40 tpy
000106-42-3	XYLENE, PARA- (HAP)	> 0 but < 10 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 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)

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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)

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.

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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 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.

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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 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

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

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

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

Regulatory Analysis

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2-BLENG	6NYCRR 227.2 (b) (1)	Particulate emissions.	44
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6-MISCL/-/GEN/TGEN1	6NYCRR 227.2 (b) (1)	Particulate emissions.	1-40
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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 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.

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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 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.

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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 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)(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 201-6.5(g)

Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the

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federally enforceable portion of the permit, unless they are specifically addressed by it.

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 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

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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, NYC-DEP NORTH RIVER WPCP has been determined to be subject to the following regulations:

40CFR 63-VVV.1586

This regulation imposes no control requirements for existing non-industrial POTW treatment plants.

40CFR 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.

6NYCRR 201-6.5 (c)

This requirement specifies what information must be included in any records and reports that are to be maintained or submitted as a result of any compliance monitoring. Records of all monitoring data and support information is to be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Reports of any required monitoring as a result of a federally applicable requirement needs to be submitted every 6 months, at a minimum. Finally, the permit needs to include a notification and reporting process for 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 (c) (2)

This requirement specifies what information must be included in any records and reports that are to be maintained or submitted as a result of any compliance monitoring. Records of all monitoring data and support information is to be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Reports of any required monitoring as a result of a federally applicable requirement needs to be submitted every 6 months, at a minimum. Finally, the permit needs to include a notification and reporting process for 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 (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 212

This is for general process emissions

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6NYCRR 212.4

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

6NYCRR 225.1 (a) (3)

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

6NYCRR 225-1.8 (a)

Upon request the owner or operator of a facility which purchases and fires coal or oil shall submit reports to the commissioner containing a fuel analysis, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years

6NYCRR 225-1.8 (d)

This requires that sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the commissioner.

6NYCRR 227.2 (b) (1)

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

6NYCRR 227-1.3

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

6NYCRR 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.

6NYCRR 227-1.4 (b)

This regulation requires the specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

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 (e) (1)

This is for NO_x RACT.

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6NYCRR 227-2.4 (f) (2)

This citation sets emission limits of oxides of nitrogen for lean burn engines.

6NYCRR 227-2.4 (g)

This subdivision is meant to require RACT on a significant combustion source which has no RACT provisions. This includes those units which have been "exempted." Rather than treat a significant source that falls below the size cutoffs of other subdivisions in this section as requiring no control, if the unit emits over 3 lb/hr uncontrolled or more than 15 lb./day.

As an example, a 300 hp internal combustion engines which is uncontrolled is exempt from needing a permit upstate. However, this unit emits about 7 lb/hr. This unit is a significant source of NOx and should therefore have RACT applied.

6NYCRR 230 .2 (d) (1)

This regulation requires Stage I and Stage II vapor collection systems at any gasoline dispensing site located in the New York City Metropolitan Area which were constructed, replaced, or substantially modified after June 27, 1987, regardless of the annual gasoline throughput at the site. Stage I vapor collection systems are systems where the gasoline vapors are forced from the gasoline storage tank back into the gasoline transport vehicle or a vapor control system through direct displacement by the gasoline being loaded.

6NYCRR 230 .2 (g)

This regulation requires daily visual inspections of components of stage II vapor collection system to ensure the integrity and efficiency of the system. Dispensers with defective stage II components must be removed from service, locked and sealed to prevent vapor loss from operational dispensers until approved replacement parts are installed. A log will be kept recording the results of the inspections.

6NYCRR 230 .2 (k)

This regulation requires the owners and/or operators of stage II systems to perform dynamic pressure tests at 5 year intervals after commencing operations. The leak test criteria requirements are given in 6 NYCRR Part 230.2(k).

6NYCRR 230 .5

This is for record keeping requirements for gasoline dispensing facilities.

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.

Compliance Certification

Summary of monitoring activities at NYC-DEP NORTH RIVER WPCP:

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



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Basis for Monitoring

North River Water Pollution Control Plant: Industrial POTW discussions:

In accordance with 40 CFR 63.1595, an industrial POTW means a POTW that accepts waste stream regulated by an industrial NESHAP and provides treatment and controls as an agent for the industrial discharger. The industrial discharger complies with its NESHAP by using the treatment and controls located at the POTW.

DEP's current and past policy for its 14 wastewater treatment plants within the City is not to enter into agreements to provide treatment and controls as an agent for an industrial discharger in order for the

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industrial discharger to comply with its NESHAP by using the treatment and controls located at DEP's POTWs. Since DEP has not entered into any such agreements, North River WPCP can be concluded as non industrial POTW.

Excuse Provision: 201-1.4 vs 201.5(e): The currently applicable 'excuse' provision that is approved into the SIP under 6 NYCRR § 201.5(e) no longer exists under the New York state code. It is the Department's position that it is inappropriate for the state to enforce a rule which is no longer active, consequently, this rule will not be inserted into the permit. As per EPA's previous recommendations, the current non-SIP approved 'excuse' provision at 6 NYCRR § 201-1.4 has been moved to the state-only applicable section of the permit. With regard to the excuse issue, the Commissioner, may not exercise more discretion than what is allowed by federal requirements. To clarify this, the Department has included a condition cited under 6 NYCRR 201-6.5(c)(3)(ii) which advises Title V permittees that the "excuse" provision in 6 NYCRR §201-1.4 is not available to them for violations of federal regulations unless the federal regulation (e.g. NSPS, NESHAPS, PSD) provides for such an "excuse." The state enforceable condition for 6 NYCRR §201-1.4 reiterates this as well. This explanation will be included in the PRR discussion.

NYCDEP's sulfur in fuel monitoring:

DEC requirement focusing on monitoring of following at each delivery: supplier's name, date of shipment, quantity, heating value, sulfur content, method used.

NYCDEP's procedure include combination of two parts: NYC DCAS oil quality monitoring and plant's delivery monitoring. All diesel supplied to all city agencies are administered under one contract by DCAS. Because of huge delivery each day, DCAS focus its quality monitoring on sources of diesel rather than each delivery.

The NYC DCAS diesel quality monitoring focus on monitoring of fuel oil terminals randomly on the following ASTM methods: Total Sulfur, distillation 90%, flash pt, certification of delivery as "low sulfur diesel" means meeting the DCAS low sulfur specification of 0.2% by weight, supplier name, date, quantity.

Plant is keeping the manifest of such for each delivery.

Applicability of CAA 112(r):

NYCDEP informed us that North River WPCP qualifies for the exclusions mentioned in the revised rule and its RMP was withdrawn in June 2004.

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Facility Identification Data

Name: NYC-DEP NORTH RIVER WPCP
Address: 725 W 135TH ST
NEW YORK, NY 10031

Owner/Firm

Name: NYC DEPT OF ENVIRONMENTAL PROTECTION
Address: 96-05 HORACE HARDING EXPWY
FLUSHING, NY 11368, USA
Owner Classification: Municipal

Permit Contacts

Division of Environmental Permits:
Name: ELIZABETH A CLARKE
Address: ONE HUNTERS POINT PLAZA
47-40 21ST ST
LONG ISLAND CITY, NY 11101-5407
Phone:7184824997

Division of Air Resources:
Name: PARESH SHAH
Address: ONE HUNTERS POINT PLAZA
47-40 21ST ST
LONG ISLAND CITY, NY 11101

Air Permitting Contact:
Name: NYC-DEP NORTH RIVER WPCP
Address: 725 W 135 STREET
NEW YORK, NY 10031
Phone:7185955050

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

This title v modification is being done in response to the epa order based on nypirg and nycdep petition,

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and negotiations between nycdep and nysdec after issuance of the original permit in october 2002.

The facility has ten (10) dual fuel engines firing digester gas with #2 oil as the pilot fuel. The facility also has three (3) 32.3 mmbtu/hr. And one (1) 8.6 mm/btu/hr. Duel fuel hot water boilers and two (2) emergency generators and one 200 kw black start engine for emergency generator (exempt). The facility has three (3) major odor control systems consisting of a combination of wet scrubbers and activated carbon beds.

The plant is undergoing modification constructions at two of the plant's three major odor control systems. The modification constructions include installing additional wet scrubbers and activated carbon vessels to the north and south odor control systems

The Department acknowledges that the permittee has filed a NOx RACT variance request for the engines in Emission Unit 1-PUMPE. Stack testing will be required before expiration date of the current permit to determine the NOx emissions from these engines. An approvable stack testing protocol shall be submitted within sixty days of permit issuance. Stack testing shall be conducted in accordance with the approved protocol within thirty days of approval. A report summarizing the results of the stack test shall be submitted within sixty days of the stack test.

The 9.0 gm/bhp-hr limit is interim limit.

The Department will establish alternative NOx RACTlimits based on the approved stack test results.

Attainment Status

NYC-DEP NORTH RIVER WPCP is located in the town of MANHATTAN in the county of NEW YORK.

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)	MODERATE NON-ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT



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- * Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.
- ** NOx has a separate ambient air quality standard in addition to being an ozone precursor

Facility Description

This is a 170 million gallon per day publically owned secondary wastewater treatment plant. The facility has ten (10) dual fuel engines firing digester gas with #2 oil as the pilot fuel. The facility has three (3) major odor control systems consisting of a combination of wet scrubbers and activated carbon beds. The facility also has three (3) 32.3 mmbtu/hr. And one (1) 8.6 mm/btu/hr. Duel fuel hot water boilers and two (2) emergency generators.

Permit Structure and Description of Operations

The Title V permit for NYC-DEP NORTH RIVER WPCP 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.

NYC-DEP NORTH RIVER WPCP is defined by the following emission unit(s):

Emission unit 3BLERS - THIS EMISSION UNIT CONSISTS OF 4 CLEAVER BROOKS BOILERS FIRING #2 DIESEL OIL AND DIGESTER GAS. BOILERS #1, #3, #4 ARE 32.3 MILLION BTU/HR INPUT; BOILER #2 IS 8.6 MMBTU/HR INPUT AND SHARES A STACK WITH BOILER #3. MODIFICATIONS ARE PRESENTLY UNDERWAY AT THE PLANT TO ALLOW THE 3 LARGE BOILERS TO ALSO BE FUELED WITH UTILITY (NATURAL) GAS. NORMAL OPERATION REQUIRES UTILIZATION OF 2 LARGE BOILERS & THE SMALL BOILER DURING THE

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HEATING SEASON; DURING THE WARM WEATHER MONTHS, 1 LARGE & THE SMALL BOILER OR 2 LARGE BOILERS ARE NORMALLY SUFFICIENT.

Emission unit 3BLERS is associated with the following emission points (EP):
00N11, 00N14, 00N17

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

Process: BDF is located at Building MAIN - THIS PROCESS IS WHEN THE BOILERS FIRE #2 DIESEL OIL. NORMAL OPERATION REQUIRES UTILIZATION OF 2 LARGE BOILERS & THE SMALL BOILER DURING THE HEATING SEASON; DURING THE WARM WEATHER MONTHS 1 LARGE & THE SMALL BOILER OR 2 LARGE BOILERS ARE NORMALLY SUFFICIENT.

Process: BGG is located at Building MAIN - THIS PROCESS IS WHEN THE BOILERS FIRE EITHER DIGESTER GAS OR NATURAL GAS. NORMAL OPERATION REQUIRES UTILIZATION OF 2 LARGE BOILERS & THE SMALL BOILER DURING THE HEATING SEASON; DURING THE WARM WEATHER MONTHS 1 LARGE & THE SMALL BOILER OR 2 LARGE BOILERS ARE NORMALLY SUFFICIENT.

Emission unit 5SLUDG - THIS UNIT CONSISTS OF THE PLANT'S SLUDGE HANDLING PROCESSES. THESE WASTEWATER TREATMENT PROCESSES INCLUDE 10 GRAVITY THICKENING TANKS, 8 SLUDGE DIGESTER TANKS, AND 1 SLUDGE STORAGE TANK AND GAS HOLDER AND ASSOCIATED OPERATIONS. THE THICKENERS, SLUDGE STORAGE TANK AND FUGITIVE EMISSIONS FROM THE GAS HOLDER ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM CONSISTING OF WET CHEMICAL SCRUBBERS AND CARBON ADSORBERS.

Emission unit 5SLUDG is associated with the following emission points (EP):
SUTH1

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

Process: OSS is located at Building SDOCK - THIS PROCESS IS THE SLUDGE STORAGE (SS) UNIT PROCESS WHICH CONSISTS OF ONE (1) 120,000 CUFT SLUDGE STORAGE TANK AND THE RETURN SLUDGE OVERFLOW BOXES & WELLS WHICH ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM.

Process: SAD is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE ANAEROBIC DIGESTION (SAD) PROCESS CONSISTING OF EIGHT (8) 200,000 CUBIC FEET DIGESTION TANKS AND DIGESTER OVERFLOW BOXES. GASES PRODUCED IN THE DIGESTION PROCESS ARE COLLECTED AND EITHER STORED IN THE GAS HOLDER OR DIRECTED TO THE ENGINES OR BOILERS AS A PRIMARY FUEL SOURCE. FUGITIVE EMISSIONS FROM THE DIGESTER RELIEF VALVES ARE VENTED INTO THE SOUTH ODOR CONTROL SYSTEM.

Process: SGT is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE GRAVITY THICKENING (SGT) PROCESS CONSISTING OF 10 (40,000 CUBIC FEET) THICKENING TANKS. THESE ARE COVERED AND THE COLLECTED AIR IS VENTED THROUGH THE SOUTH ODOR CONTROL SYSTEM WHICH CONSISTS OF WET CHEMICAL SCRUBBERS & CARBON ADSORPTION UNITS.

Process: WGH is located at Building SDOCK - THIS PROCESS IS THE WIGGINS GAS HOLDER WHICH IS A 135,000 CU FT TANK FOR STORAGE OF DIGESTER GAS PRODUCED BY THE NR PLANT. FUGITIVE EMISSIONS FROM THIS TANK ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM.

Process: WGT is located at Building SDOCK - THIS PROCESS IS THE GAS HOLDER WHICH IS A

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135,000 CU FT TANK FOR STORAGE OF DIGESTER GAS PRODUCED BY THE NORTH RIVER PLANT. FUGITIVE EMISSIONS FROM THIS TANK ARE VENTED TO THE SOUTH ODOR CONTROL SYSTEM.

Emission unit 6MISCL - THIS UNIT CONSISTS OF THE PLANT'S ONE GASOLINE DISPENSING PUMP AND ONE WASTE GAS TOWER TO FLARE EXCESSIVE SLUDGE GAS.

Emission unit 6MISCL is associated with the following emission points (EP):
EGEN1, EGEN2, FLARE

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

Process: FLR is located at Building SDOCK - THIS PROCESS IS THE FLARING OF EXCESSIVE SLUDGE DIGESTER GAS. AT TIMES THAT THE SLUDGE DIGESTER GAS PRODUCED AT THE PLANT CAN NOT BE UTILIZED IN EITHER THE ENGINES OR BOILERS (AND THE WIGGINS GAS HOLDER REACHES ITS CAPACITY) THE EXCESSIVE SLUDGE DIGESTER GAS WILL BE BURNED AT THE WASTE GAS TOWER.

Process: GAS is located at RAMP, Building SDOCK - THIS PROCESS IS THE PLANT'S GASOLINE STATION. THE STATION HAS ONE 550 GALLON TANK AND ONE DISPENSING PUMP.

Process: GEN is located at Building MAIN - THIS PROCESS INCLUDES OPERATIONS OF THE PLANT'S TWO EMERGENCY TURBINE GENERATORS FIRING DIESEL FUEL #2. THESE TWO EMERGENCY TURBINE GENERATORS TGEN1 AND TGEN2 EACH RATED 2800 KW AND EXHAUST THROUGH THEIR OWN STACKS EGEN1 AND EGEN2. THESE TWO TURBINE GENERATORS PROVIDE BACK UP POWER FOR THE PLANT OPERATION IN EVENTS OF ELECTRICAL POWER SUPPLY INTERUPTION OR FAILURE, AND PARTICIPATE IN NY STATE DEMAND REDUCTION PROGRAMS, WHEN NEEDED. ONE 200 KW BLACK START ENGINE GENERATOR (EXEMPT) IS FOR BLACK START OF THESE TWO ENERGENCY TURBINE GENERATORS. TOTAL THROUGHPUT IS ESTIMATED BASED ON ANNUALLY 200 HRS OPERATION OF BOTH EMERGENCY TURBINE GENERATORS..

Emission unit 2BLENG - THIS EMISSION UNIT CONSISTS OF FIVE (5) MIRRLEES-BLACKSTONE K 5 940 BHP DUAL FUEL-FIRED ENGINES. THESE ENGINES PROVIDE POWER TO OPERATE THE PROCESS AIR BLOWERS AT THE WWTP. THE PRIMARY FUEL IS THE PLANT'S DIGESTER GAS WITH #2 DIESEL OIL AS THE PILOT FUEL (~6-8% BTU VALUE PILOT). THESE ENGINES ALSO OPERATE WITH #2 DIESEL AS THE PRIMARY FUEL AND PILOT MODIFICATIONS IMPLEMENTED TO PERMIT THE ENGINES TO ALSO OPERATE WITH NATURAL GAS AS THE PRIMARY FUEL WITH DIESEL PILOT IN 2000. THE ENGINES CAN ALSO OPERATE WITH BLENDS OF DIESEL & GAS AS THE PRIMARY FUEL WITH DIESEL PILOT.

Emission unit 2BLENG is associated with the following emission points (EP):
00N10, 00N12, 00N13, 00N15, 00N16

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

Process: DIB is located at Building MAIN - THIS PROCESS IS SUPPLEMENTAL OPERATION MODE TO THE PROCESS DUB WHEN THE ENGINES CANNOT BE OPERATED IN DUAL FUEL MODE, THESE ENGINES WILL FIRE 100% DIESEL. APPROXIMATELY 80% OF THE TIME THE PLANT OPERATES WITH 3 BLOWER ENGINES: DURING PERIODS OF LOW WASTE WATER FLOW ~20% OF TIME THE PLANT OPERATES WITH 2 BLOWER ENGINES. FOURTH BLOWER ENGINE IS ONLY NEEDED OCCASIONALLY FOR PEAK DISSOLVED OXYGEN DEMAND PERIODS (LESS THAN 5% OF TIME). FIFTH ENGINE WILL ALWAYS BE

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DOWN FOR STANDBY OR MAINTENANCE PURPOSES.

Process: DUB is located at Building MAIN - THIS PROCESS IS FOR THE BLOWER ENGINES' PRIMARY OPERATION MODE. UNDER THIS PROCESS, THE ENGINES FIRE DUAL FUEL (SLUDGE DIGESTER GAS OR NATURAL GAS) WITH DIESEL OIL AS PILOT FUEL (~6-8%). THE MODIFICATIONS TO ALLOW FIRING WITH NATURAL GAS WERE BEING COMPLETED DURING EARLY 2000. APPROXIMATELY 80% OF THE TIME THE PLANT OPERATES WITH 3 BLOWER ENGINES; DURING PERIODS OF LOW WASTEWATER FLOW ~20% OF TIME THE PLANT OPERATES WITH 2 BLOWER ENGINES. FOURTH BLOWER ENGINE IS ONLY NEEDED OCCASIONALLY FOR PEAK DISSOLVED OXYGEN DEMAND PERIODS (LESS THAN 5% OF TIME). FIFTH ENGINE WILL ALWAYS BE DOWN FOR STANDBY OR MAINTENANCE PURPOSES.

Emission unit 1PUMPE - THIS EMISSION UNIT CONSISTS OF FIVE (5) DELAVAL TRANSAMERICAN R-46 1700 BHP DUAL FUEL-FIRED ENGINES. THESE ENGINES PROVIDE POWER TO OPERATE THE MAIN SEWAGE PUMPS AT THE WWTP. THE PRIMARY FUEL IS THE PLANT'S DIGESTER GAS WITH #2 DIESEL FUEL OIL AS THE PILOT FUEL (~8% BTU VALUE PILOT). THE PUMP ENGINES ALSO OPERATE WITH #2 DIESEL AS THE PRIMARY FUEL AND MODIFICATIONS IMPLEMENTED TO PERMIT THE ENGINES TO ALSO OPERATE WITH NATURAL GAS AS THE PRIMARY FUEL IN 1999 ALSO WITH DIESEL PILOT. THE ENGINES CAN ALSO BE OPERATED WITH FUEL BLENDS OF OIL & DIGESTER GAS AND EVENTUALLY WITH OIL & NATURAL GAS.

Emission unit 1PUMPE is associated with the following emission points (EP): 000N3, 000N4, 000N6, 000N7, 000N9

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

Process: DIE is located at Building MAIN - THIS PROCESS IS SUPPLEMENTAL OPERATION MODE TO THE PROCESS DUA WHEN THE ENGINES CANNOT BE OPERATED IN DUAL FUEL MODE, THESE ENGINES WILL FIRE 100% DIESEL. APPROXIMATELY 70% OF THE TIME THE PLANT OPERATES WITH 2 PUMP ENGINES; DURING PERIODS OF PEAK DRY WEATHER FLOW ~20 - 25% OF TIME PLANT OPERATES WITH 3 ENGINES. FOURTH PUMP ENGINE IS ONLY NEEDED FOR PEAK WET WEATHER FLOW. FIFTH PUMP ENGINE WILL ALWAYS BE DOWN FOR STANDBY OR MAINTENANCE PURPOSES.

Process: DUA is located at Building MAIN - THIS PROCESS IS THE PUMP ENGINES' PRIMARY OPERATION MODE. UNDER THIS PROCESS, THE ENGINES FIRE DUAL FUEL (SLUDGE DIGESTER GAS OR NATURAL GAS) WITH DIESEL OIL AS PILOT FUEL. THE MODIFICATIONS TO ALLOW FIRING WITH NATURAL GAS WERE COMPLETED DURING 1999. APPROXIMATELY 70% OF THE TIME THE PLANT OPERATES WITH 2 PUMP ENGINES; DURING PERIODS OF PEAK DRY WEATHER FLOW ~20 - 25% OF TIME PLANT OPERATES WITH 3 ENGINES. FOURTH PUMP ENGINE IS ONLY NEEDED FOR PEAK WET WEATHER FLOW. FIFTH PUMP ENGINE WILL ALWAYS BE DOWN FOR MAINTENANCE OR STANDBY PURPOSES.

Emission unit 4WWTRE - THE UNIT CONSISTS OF THE PLANT'S WASTEWATER TREATMENT PROCESSES. THESE PROCESSES INCLUDE THE HEADWORKS, INFLUENT CHANNELS, RESIDUALS AREA AND WASTE SLUDGE WET WELL (WSWW), PRIMARY SETTLING TANKS (PSTs), AERATION TANKS (ATs), AND FINAL SETTLING AND CHLORINE CONTACT TANKS. AIR FROM THE HEADWORKS, PSTs, INFLUENT CHANNELS,

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RESIDUALS AREA, WSWW, AND ATs IS COLLECTED & VENTED THROUGH WET CHEMICAL SCRUBBERS AND CARBON ADSORBERS PRIOR TO BEING EXHAUSTED FROM 2 STACKS. THIS UNIT ALSO INCLUDES THE 2 MIXED LIQUOR CHANNELS (AERATION EFFLUENT CHANNELS) WHICH ARE COVERED WITH THE AIR BEING EXHAUSTED THROUGH 8 SMALL CARBON ADSORBER UNITS EACH WITH 600CFM CAPACITY. PLANNING IS UNDERWAY TO REPLACE THESE 8 CARBON ADSORBERS VIA TIE-IN TO THE PLANT'S SOUTH ODOR CONTROL SYSTEM POSSIBLY BY 2003. MODIFICATION TO CONTINUOUSLY ADJUST THE WATER LEVEL IN THE FINAL SETTLING TANKS EFFLUENT CHANNEL WILL BE COMPLETED BY 2005. EMISSIONS FROM THESE PROCESSES DEPEND ON THE CONCENTRATIONS OF POLLUTANTS IN THE PLANT'S INFLUENT OF WHICH THE PLANT DOES NOT HAVE COMPLETE CONTROL. THEREFORE, THE EMISSIONS ARE BASED ON CURRENTLY AVAILABLE DATA.

Emission unit 4WWTRE is associated with the following emission points (EP):

MXLC1, MXLC2, MXLC3, MXLC4, MXLC5, MXLC6, MXLC7, MXLC8, NRTH1, NRTH2

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

Process: 0AS is located at Building AERATION - THIS PROCESS IS THE PLANT'S WASTEWATER SECONDARY TREATMENT PROCESS. THIS PROCESS INCLUDES 5 ACTIVATED SLUDGE AERATION TANKS @ 330'x74.6'x29.2') AND THE WASTE SLUDGE WET WELL. THIS PROCESS IS COVERED AND THE AIR IS VENTED TO WET CHEMICAL SCRUBBERS AND CARBON ADSORPTION UNITS PRIOR TO BEING EXHAUSTED THROUGH 2 LARGE STACKS.

Process: 0CC is located at Building CHLORCONT - THIS IS THE PLANT'S CHLORINE CONTACT (DISINFECTION) PROCESS. TOTAL OF 4 CHLORINE CONTACT TANKS (639'x28.5'x8').

Process: 0FS is located at Building FINAL - THIS PROCESS IS THE PLANT'S WASTEWATER FINAL SETTLING (FS) PROCESS. THIS PROCESS INCLUDES 16 FINAL SETTLING TANKS (4 BAYS, 250'x74'x10.9') AND THE MIXED LIQUOR CHANNELS WHICH FEED THE FINAL SETTLING TANKS. THE TWO MIXED LIQUOR CHANNELS ARE COVERED AND THE AIR IS VENTED TO 8 SMALL CARBON ADSORBERS WHICH EXHAUST IN THE PLENUM AREA ABOVE THE PLANT BUT BELOW THE SLAB OF THE STATE PARK.

Process: 0PS is located at Building PRIMARY - THIS PROCESS IS THE PLANTS' WASTEWATER HEADWORKS & PRIMARY SETTLING (PS) PROCESS. THIS PROCESS INCLUDES THE HEADWORKS SCREENS, INFLUENT CHANNELS, 8 PRIMARY SETTLING TANKS (6 BAYS, 187.5'x85.8'x11.5') AND RESIDUAL AREAS (SCUM, GRIT & SKIMMINGS COLLECTION) . THIS PROCESS IS COVERED AND THE AIR IS VENTED TO WET CHEMICAL SCRUBBERS AND CARBON ADSORPTION UNITS PRIOR TO BEING EXHAUSTED THRU 2 LARGE STACKS.

Title V/Major Source Status

NYC-DEP NORTH RIVER WPCP is subject to Title V requirements. This determination is based on the following information:

The Facility is a major source and its potential to emit (PTE) for NO_x, VOC, and CO exceed the thresholds identified in 6 NYCRR 201.

Program Applicability

The following chart summarizes the applicability of NYC-DEP NORTH RIVER WPCP with regards to

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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)	YES
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 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.



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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 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

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SCC Codes

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

SCC Code	Description
1-03-005-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL Grades 1 and 2 Oil
1-03-007-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - PROCESS GAS POTW DIGESTER GAS-FIRED BOILER
2-04-003-02	INTERNAL COMBUSTION ENGINES - ENGINE TESTING INTERNAL COMBUSTION ENGINE: ENGINE TESTING - TURBINE Diesel/Kerosene
2-02-004-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Diesel
2-02-004-02	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Dual Fuel (Oil/Gas)
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
5-01-007-60	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: CHLORINE CONTACT TANK
5-01-007-31	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: DIFFUSED AIR ACT SLUDGE
5-01-007-71	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: GRAVITY SLUDGE THICKENER
5-01-007-20	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: PRIMARY SETTLING TANK
5-01-007-40	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: SECONDARY CLARIFIER
5-01-007-89	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT SLUDGE DIGESTER GAS FLARE
4-06-004-01	TRANSPORTATION AND MARKETING OF PETROLEUM PRODUCTS FILLING VEHICLE GAS TANKS - STAGE II Vapor Loss w/o Controls

Facility Emissions Summary

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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
000079-34-5	1,1,2,2-TETRACHLOROETHANE (HAP)	> 0	but < 10 tpy
000076-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	>= 2.5	tpy but < 10 tpy
000107-06-2	1,2-DICHLOROETHANE (HAP)	> 0	but < 10 tpy
000108-38-3	1,3 DIMETHYL BENZENE (HAP)	> 0	but < 10 tpy
000108-10-1	2-PENTANONE, 4-METHYL (HAP)	> 0	but < 10 tpy
000071-43-2	BENZENE (HAP)	> 0	but < 10 tpy
000098-82-8	BENZENE, (1-METHYLETHYL) (HAP)	> 0	but < 10 tpy
000106-46-7	BENZENE, 1,4-DICHLORO- (HAP)	> 0	but < 10 tpy
000095-50-1	BENZENE, 1,2-DICHLORO	>= 2.5	tpy but < 10 tpy
000095-47-6	BENZENE, 1,2-DIMETHYL (HAP)	> 0	but < 10 tpy
000541-73-1	BENZENE, 1,3-DICHLORO	>= 2.5	tpy but < 10 tpy
000075-27-4	BROMODICHLOROMETHANE	>= 2.5	tpy but < 10 tpy
000075-25-2	BROMOFORM (HAP)	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 100	tpy but < 250 tpy
000056-23-5	CARBON TETRACHLORIDE (HAP)	> 0	but < 10 tpy
000108-90-7	CHLOROBENZENE (HAP)	> 0	but < 10 tpy
000124-48-1	CHLORODIBROMOMETHANE	>= 2.5	tpy but < 10 tpy
000067-66-3	CHLOROFORM (HAP)	> 0	but < 10 tpy
000075-71-8	DICHLORODIFLUOROMETHANE	>= 2.5	tpy but < 10 tpy
000075-09-2	DICHLOROMETHANE (HAP)	> 0	but < 10 tpy
000071-55-6	ETHANE, 1,1,1-TRICHLORO (HAP)	> 0	but < 10 tpy
000079-00-5	ETHANE, 1,1,2-TRICHLORO (HAP)	> 0	but < 10 tpy
000075-34-3	ETHANE, 1,1-DICHLORO- (HAP)	> 0	but < 10 tpy
000075-00-3	ETHANE, CHLORO (HAP)	> 0	but < 10 tpy
000156-59-2	ETHENE, 1,2-DICHLORO-	>= 2.5	tpy but < 10 tpy
000156-60-5	ETHENE, 1,2-DICHLORO-, (E)-C ₂ H ₂ CL ₂	>= 2.5	tpy but < 10 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	>= 40	tpy but < 50 tpy

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007439-92-1	LEAD (HAP)	> 0 but < 10 tpy
000075-69-4	METHANE, TRICHLOROFLUORO-	>= 2.5 tpy but < 10 tpy
000074-83-9	METHYL BROMIDE (HAP)	> 0 but < 10 tpy
000074-87-3	METHYL CHLORIDE (HAP)	> 0 but < 10 tpy
000091-20-3	NAPHTHALENE (HAP)	> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250 tpy
0NY075-00-0	PARTICULATES	>= 2.5 tpy but < 10 tpy
000127-18-4	PERCHLOROETHYLENE (HAP)	> 0 but < 10 tpy
0NY075-00-5	PM-10	>= 2.5 tpy but < 10 tpy
000078-87-5	PROPANE, 1,2-DICHLORO (HAP)	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 50 tpy but < 100 tpy
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	>= 25 tpy but < 40 tpy
000106-42-3	XYLENE, PARA- (HAP)	> 0 but < 10 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 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)

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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)

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.

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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 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.

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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 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

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

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

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

Regulatory Analysis

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Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	64
FACILITY	40CFR 63-VVV.1586	Non-Industrial POTW Treatment Plant Requirements	24
FACILITY	40CFR 68	Chemical accident prevention provisions	1-16
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	26
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1-1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	1-4
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	65
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	1-5
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	1-6
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	1-7
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	1-8
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	1, 27, 28
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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 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.

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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 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.

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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 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)(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 201-6.5(g)

Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the

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federally enforceable portion of the permit, unless they are specifically addressed by it.

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 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

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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, NYC-DEP NORTH RIVER WPCP has been determined to be subject to the following regulations:

40CFR 63-VVV.1586

This regulation imposes no control requirements for existing non-industrial POTW treatment plants.

40CFR 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.

6NYCRR 201-6.5 (c)

This requirement specifies what information must be included in any records and reports that are to be maintained or submitted as a result of any compliance monitoring. Records of all monitoring data and support information is to be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Reports of any required monitoring as a result of a federally applicable requirement needs to be submitted every 6 months, at a minimum. Finally, the permit needs to include a notification and reporting process for 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 (c) (2)

This requirement specifies what information must be included in any records and reports that are to be maintained or submitted as a result of any compliance monitoring. Records of all monitoring data and support information is to be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Reports of any required monitoring as a result of a federally applicable requirement needs to be submitted every 6 months, at a minimum. Finally, the permit needs to include a notification and reporting process for 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 (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 212

This is for general process emissions

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6NYCRR 212.4

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

6NYCRR 225.1 (a) (3)

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

6NYCRR 225-1.8 (a)

Upon request the owner or operator of a facility which purchases and fires coal or oil shall submit reports to the commissioner containing a fuel analysis, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years

6NYCRR 225-1.8 (d)

This requires that sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the commissioner.

6NYCRR 227.2 (b) (1)

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

6NYCRR 227-1.3

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

6NYCRR 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.

6NYCRR 227-1.4 (b)

This regulation requires the specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

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 (e) (1)

This is for NO_x RACT.

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6NYCRR 227-2.4 (f) (2)

This citation sets emission limits of oxides of nitrogen for lean burn engines.

6NYCRR 227-2.4 (g)

This subdivision is meant to require RACT on a significant combustion source which has no RACT provisions. This includes those units which have been "exempted." Rather than treat a significant source that falls below the size cutoffs of other subdivisions in this section as requiring no control, if the unit emits over 3 lb/hr uncontrolled or more than 15 lb./day.

As an example, a 300 hp internal combustion engines which is uncontrolled is exempt from needing a permit upstate. However, this unit emits about 7 lb/hr. This unit is a significant source of NOx and should therefore have RACT applied.

6NYCRR 230 .2 (d) (1)

This regulation requires Stage I and Stage II vapor collection systems at any gasoline dispensing site located in the New York City Metropolitan Area which were constructed, replaced, or substantially modified after June 27, 1987, regardless of the annual gasoline throughput at the site. Stage I vapor collection systems are systems where the gasoline vapors are forced from the gasoline storage tank back into the gasoline transport vehicle or a vapor control system through direct displacement by the gasoline being loaded.

6NYCRR 230 .2 (g)

This regulation requires daily visual inspections of components of stage II vapor collection system to ensure the integrity and efficiency of the system. Dispensers with defective stage II components must be removed from service, locked and sealed to prevent vapor loss from operational dispensers until approved replacement parts are installed. A log will be kept recording the results of the inspections.

6NYCRR 230 .2 (k)

This regulation requires the owners and/or operators of stage II systems to perform dynamic pressure tests at 5 year intervals after commencing operations. The leak test criteria requirements are given in 6 NYCRR Part 230.2(k).

6NYCRR 230 .5

This is for record keeping requirements for gasoline dispensing facilities.

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.

Compliance Certification

Summary of monitoring activities at NYC-DEP NORTH RIVER WPCP:

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



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Basis for Monitoring

North River Water Pollution Control Plant: Industrial POTW discussions:

In accordance with 40 CFR 63.1595, an industrial POTW means a POTW that accepts waste stream regulated by an industrial NESHAP and provides treatment and controls as an agent for the industrial discharger. The industrial discharger complies with its NESHAP by using the treatment and controls located at the POTW.

DEP's current and past policy for its 14 wastewater treatment plants within the City is not to enter into agreements to provide treatment and controls as an agent for an industrial discharger in order for the

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industrial discharger to comply with its NESHAP by using the treatment and controls located at DEP's POTWs. Since DEP has not entered into any such agreements, North River WPCP can be concluded as non industrial POTW.

Excuse Provision: 201-1.4 vs 201.5(e):The currently applicable 'excuse' provision that is approved into the SIP under 6 NYCRR § 201.5(e) no longer exists under the New York state code. It is the Department's position that it is inappropriate for the state to enforce a rule which is no longer active, consequently, this rule will not be inserted into the permit. As per EPA's previous recommendations, the current non-SIP approved 'excuse' provision at 6 NYCRR§ 201-1.4 has been moved to the state-only applicable section of the permit. With regard to the excuse issue, the Commissioner, may not exercise more discretion than what is allowed by federal requirements. To clarify this, the Department has included a condition cited under 6 NYCRR 201-6.5(c)(3)(ii) which advises Title V permittees that the "excuse" provision in 6 NYCRR §201-1.4 is not available to them for violations of federal regulations unless the federal regulation (e.g. NSPS, NESHAPS, PSD) provides for such an "excuse." The state enforceable condition for 6 NYCRR §201-1.4 reiterates this as well. This explanation will be included in the PRR discussion.

NYCDEP's sulfur in fuel monitoring:

DEC requirement focusing on monitoring of following at each delivery: supplier's name, date of shipment, quantity, heating value, sulfur content, method used.

NYCDEP's procedure include combination of two parts: NYC DCAS oil quality monitoring and plant's delivery monitoring. All diesel supplied to all city agencies are administered under one contract by DCAS. Because of huge delivery each day, DCAS focus its quality monitoring on sources of diesel rather than each delivery.

The NYC DCAS diesel quality monitoring focus on monitoring of fuel oil terminals randomly on the following ASTM methods: Total Sulfur, distillation 90%, flash pt, certification of delivery as "low sulfur diesel" means meeting the DCAS low sulfur specification of 0.2% by weight, supplier name, date, quantity.

Plant is keeping the manifest of such for each delivery.

Applicability of CAA 112(r):

NYCDEP informed us that North River WPCP qualifies for the exclusions mentioned in the revised rule and its RMP was withdrawn in June 2004.