

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057    Modification Number: 2**



**10/04/2005**

**Facility Identification Data**

Name: NYC-DEP NEWTOWN CREEK WPCP  
Address: 329-69 GREENPOINT AVE  
BROOKLYN, NY 11222

**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**

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



Under the Newtown Creek Track 3 Upgrade, two packaged carbon adsorber odor control systems will be added to the plant's headworks process. The addition of these carbon adsorber odor control systems will be to control the odors at the plant's Manhattan uptake shaft and the influent splitter box.

**Attainment Status**

NYC-DEP NEWTOWN CREEK WPCP is located in the town of BROOKLYN in the county of KINGS.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

<b>Criteria Pollutant</b>	<b>Attainment Status</b>
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

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

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

**Facility Description**

THIS IS A 310 MILLION GALLON PER DAY PUBLIC OWNED MODIFIED AERATION WATER POLLUTION CONTROL PLANT. WASTEWATER FROM HOMES, BUSINESSES, INDUSTRY, SCHOOLS, STORM RUNOFF, AND GROUNDWATER COLLECTED IN THE PLANT'S DRAINAGE AREA FLOWS UNDERGROUND INTO THE PLANT. THE INCOMING WASTEWATER (INFLUENT) GOES THROUGH SEVERAL TREATMENT SECTIONS BROADLY CLASSIFIED AS PRELIMINARY TREATMENT, PRIMARY TREATMENT, SECONDARY TREATMENT, FINAL SETTLING, AND DESINFECTION BEFORE THE TREATED WASTEWATER (EFFLUENT) IS DISCHARGED INTO LOCAL WATERWAYS.

THE FACILITY CURRENTLY HAS 3 NEWLY INSTALLED 16.75 MMBTU/HR BOILERS CAPABLE OF FIRING NATURAL AND DIGESTER GAS. THE FACILITY CURRENTLY ALSO HAS 13 ODOR CONTROL SYSTEMS INSTALLED AT THE THICKENER TANKS BUILDING, GRIT BUILDING, EAST AND WEST SLUDGE TRANSFER ROOMS, THE EAST RIVER SLUDGE



**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**

STORAGE TANK, THE CONTROL BUILDING, NORTH AND SOUTH MANHOLES, AND THE SOIL VAPOR EXTRACTION (SVE) SITE.

THE FACILITY PREVIOUSLY OPERATED 3 ODOR CONTROL SYSTEMS AS PART OF A BIOFILTRATION PILOT PLANT STUDY. THIS BIOFILTRATION STUDY HAS BEEN COMPLETED AND THE PILOT PLANT IS SCHEDULED TO BE DEMOLISHED DURING 1999.

THE FACILITY CURRENTLY HAS 3 WASTE GAS BURNERS TO FLARE EXCESSIVE SLUDGE DIGESTER GAS AND 2 EMERGENCY GENERATORS.

THIS FACILITY IS UNDERGOING A MAJOR UPGRADING CONSTRUCTION. THE FACILITY'S SEVEN 2816 BHP DUAL FUEL INTERNAL COMBUSTION ENGINES CEASED OPERATION AND WERE DISASSEMBLED IN DECEMBER 1998 AND WILL BE SCHEDULED TO BE REMOVED DURING THE FINAL UPGRADING. MORE DETAILS OF THE UPGRADING IS PRESENTED IN "PROJECT DESCRIPTION" OF THE SECTION II (IDENTIFICATION INFORMATION) OF THIS PERMIT APPLICATION.

**Permit Structure and Description of Operations**

The Title V permit for NYC-DEP NEWTOWN CREEK 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 NEWTOWN CREEK WPCP is defined by the following emission unit(s):  
Emission unit 2WWTRE - THIS UNIT CONSISTS OF THE PLANT'S WASTEWATER TREATMENT PROCESSES. THESE PROCESSES INCLUDE THE EXISTING HEADWORKS,

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



GRIT CHAMBER, AERATION, AND FINAL SETTLING TANKS. EXCEPT FOR THE HEADWORKS, OTHER PROCESSES ARE ALL OUTDOOR AND IN LARGE TANKS. THESE PROCESSES ALSO INCLUDE THE CHLORINE CONTACT DISINFECTION PROCESS TO BE CONSTRUCTED UNDER THE PLANT'S FINAL UPGRADING. UNDER THE PLANT'S INTERIM UPGRADING AND THE FINAL UPGRADING CONSTRUCTION, THESE PROCESSES WILL BE RECONSTRUCTED AND NEW PROCESSES WILL BE ADDED TO THE PLANT AS DESCRIBED IN THE PROJECT DESCRIPTION. ACTIVATED CARBON ADSORPTION VESSELS EITHER HAVE BEEN INSTALLED OR HAVE BEEN SCHEDULED TO BE INSTALLED. EMISSIONS FROM THESE PROCESSES DEPEND ON THE CONCENTRATIONS OF POLLUTANTS OF CONCERN IN THE PLANT'S INFLUENT OF WHICH THE PLANT DOES NOT HAVE COMPLETE CONTROL. THEREFORE, THE EMISSIONS ARE BASED ON CURRENTLY AVAILABLE DATA. THE PLANT CONDUCTED A BIOFILTRATION PILOT PLANT STUDY TO EVALUATE THE TECHNIQUE FOR THE FINAL UPGRADING. THE PILOT PLANT HAS THREE DUAL BED CARBON VESSELS INSTALLED FOR H<sub>2</sub>S ODOR CONTROL PURPOSE. THE PILOT PLANT IS CURRENTLY NOT IN OPERATION. IF IT IS NECESSARY TO RESUME THE PILOT PLANT STUDY, THIS PILOT PLANT IS CONSIDERED EXEMPT AS RESEARCH AND DEVELOPMENT ACTIVITIES.

**MOD 1**

Two packaged carbon adsorber odor control systems will be added to the plant's headworks process to control the odors at the Manhattan uptake shaft and the influent splitter box.

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

2FBAY, 2GRI1, 2GRI2, 2GRI3, 2GRI4, 2GRI5, 2GRI6, 2GRI7, 2GRI8, 2M10C, 2M20C, 2NCOC, 2SOOC, ISBOC, MUSOC

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

Process: 0AS is located at Building OUTDOOR - THIS IS THE PLANT'S MODIFIED ACTIVATED SLUDGE (AS) SECONDARY TREATMENT PROCESS CONSISTING OF 16 MODIFIED DIFFUSED AIR ACTIVATED SLUDGE AERATION TANKS. IN THIS PROCESS, THE EFFLUENT FROM THE PRIMARY TREATMENT SECTION CONTAINING MAINLY COLLOIDAL AND DISSOLVED SOLIDS (BOTH INORGANIC AND ORGANIC) ARE TREATED BIOLOGICALLY BY UTILIZING MANY DIFFERENT TYPES OF MICROORGANISMS IN A CONTROLLED ENVIRONMENT. LARGE AMOUNTS OF AIR ARE PUMPED INTO AERATION TANKS MIXING THE WASTEWATER AND SLUDGE RETURNED FROM THE PLANT'S FINAL SETTLING TANKS. THIS SPEEDS THE GROWTH OF THE OXYGEN-USING BACTERIA AND OTHER TINY ORGANISMS THAT ARE NATURALLY PRESENT IN THE SEWAGE. THESE BENEFICIAL MICROORGANISMS CONSUME MOST OF THE REMAINING ORGANIC POLLUTANTS PRODUCING HEAVIER PARTICLES WHICH SETTLE OUT LATER IN THE FINAL SETTLING TANKS.

THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW.

Process: 0CC is located at Building OUTDOOR - THIS IS THE PLANTS CHLORINE CONTACT (CC) DISINFECTION PROCESS TO BE CONSTRUCTED IN THE FUTURE BY THE PLANT FINAL UPGRADING. THE WASTEWATER FROM THE FINAL SETTLING TANKS FLOWS TO THE CHLORINE CONTACT TANKS WHERE SODIUM HYPOCHLORITE IS ADDED TO

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



DISINFECT AND KILL DISEASE-CAUSING ORGANISMS. THE TREATED WASTEWATER (EFFLUENT) IS THEN RELEASED TO LOCAL WATERWAYS.

THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW.

Process: 0FS is located at Building OUTDOOR - THIS IS THE PLANT'S FINAL SETTLING (FS) PROCESS CONSISTING OF 16 FINAL SETTLING TANKS. THE AERATED WASTEWATER FROM THE AERATION TANKS FLOWS TO THE FINAL SETTLING TANKS (SIMILAR TO PRIMARY SETTLING TANKS) WHERE THE MICROORGANISMS AND SOLID WASTE GENERATED DURING THE ACTIVATED SLUDGE PROCESS FORM CLUMPS AND SETTLE OUT OF THE WASTEWATER. SOME OF THE SLUDGE IS ROUTED BACK TO THE AERATION TANKS AS SEED TO STIMULATE THE ACTIVATED SLUDGE PROCESS.

THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW. (SEE FACILITY DESCRIPTION FOR DESIGN FLOW.)

Process: 0GC is located at Building GRIT1 - THIS PROCESS IS THE PLANTS GRIT CHAMBERS (GC) PROCESS WHICH INCLUDED 32 GRIT CHAMBERS. THIS PROCESS SLOWS DOWN THE WASTEWATER FLOW AND ALLOWS THE LARGE INORGANIC SOLIDS SUCH AS SAND, CINDERS, AND GRAVEL (COLLECTIVELY CALLED GRIT) TO SETTLE AT THE BOTTOM BEFORE GOING INTO THE ACTIVATED SLUDGE PROCESS.

ABOUT HALF OF THESE 32 TANKS HAVE BEEN RECONSTRUCTED TO THIS DATE AND THE RECONSTRUCTION IS BEING CONTINUED UNDER THE UPGRADING CONSTRUCTION. TOTAL OF 8 ACTIVATED CARBON ADSORPTION CONTROL BUILDINGS WILL BE CONSTRUCTED SUBSEQUENTLY TO THE RECONSTRUCTION OF THESE GRIT CHAMBERS. (SIX HAVE BEEN CONSTRUCTED AS OF DEC. 2000).

THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW.

Process: 0HW is located at Building OUTDOOR - THIS PROCESS IS THE PLANT'S WASTEWATER PRE TREATMENT HEAD WORKS (HW) PROCESSES INCLUDING FOREBAY, BAR SCREENING, AFTERBAY, INFLUENT SPLIT BOX AND ITS WEIR. THE BAR SCREENS CONSIST OF UPRIGHT BARS SPACED ONE TO THREE INCHES APART. THE PRIMARY PURPOSE OF THE BAR SCREEN IS TO REMOVE LARGE PIECES OF TRASH (RAGS, STICKS, NEWSPAPER, CANS, ETC.,) FOR THE PROTECTION OF THE MAIN SEWAGE PUMP AND OTHER EQUIPMENT.

AN ACTIVATED CARBON ADSORPTION VESSEL IS SCHEDULED TO BE INSTALLED AT THE FOREBAY FOR H<sub>2</sub>S ODOR CONTROL.

THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW.

MOD 1

AS PART OF THE FINAL UPGRADE, THE MANHATTAN UPTAKE SHAFT AND THE INFLUENT SPLITTER BOX WILL BE EQUIPPED WITH TWO PACKAGED CARBON ADSORBER ODOR CONTROL SYSTEMS TO CONTROL ODORS AT THE PLANT'S HEADWORKS PROCESS.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



Emission unit 3SLUDG - THIS UNIT CONSISTS OF THE PLANT'S SLUDGE HANDLING PROCESSES. THESE PROCESSES INCLUDE THE EXISTING GRAVITY THICKENING, SLUDGE DIGESTER, SLUDGE STORAGE AND SLUDGE DIGESTER GAS HOLDING TANKS. WASTEWATER SLUDGE (MIXTURE OF WASTEWATER AND SETTLED SOLIDS) PRODUCED BY THE PRIMARY AND SECONDARY TREATMENT ARE PROCESSED IN THESE PROCESSES BEFORE BEING SENT TO PLANTS THAT HAVE DEWATERING FACILITIES. THE PRIMARY OBJECTIVES OF THESE PROCESSES ARE: 1) TO REDUCE THE VOLUME OF MATERIAL TO BE HANDLED BY REMOVING SOME OF THE LIQUID PORTION OF THE SLUDGE; 2) TO DECOMPOSE THE SLUDGE INTO RELATIVELY STABLE OR INERT ORGANIC AND INORGANIC COMPOUNDS FROM WHICH LIQUID WILL SEPARATE MORE EASILY.

UNDER THE PLANT'S INTERIM UPGRADING AND THE FINAL UPGRADING CONSTRUCTION, THESE PROCESSES WILL BE RECONSTRUCTED AND EQUIPMENT WILL BE REPAIRED OR REPLACED. TOTAL OF 5 ACTIVATED CARBON ADSORPTION VESSELS ARE INSTALLED AT THESE PROCESSES FOR H<sub>2</sub>S ODOR CONTROL AND TWO ADDITIONAL CARBON VESSELS ARE SCHEDULED TO BE INSTALLED. ALTHOUGH THE ACTIVATED CARBON ADSORPTION VESSELS ARE INSTALLED FOR ODOR CONTROL, THESE VESSELS SHOULD ALSO REMOVE AIR POLLUTANTS. HOWEVER, NO SUCH REMOVAL CREDIT IS CONSIDERED IN THE POTENTIAL TO EMIT (PTE) CALCULATIONS.

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

3ASD1, 3ASD2, 3ERST, 3GT01, 3GT02, 3ST15, 3ST16

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

Process: OSS is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE STORAGE (SS) UNIT PROCESS CONSISTING OF 2 SLUDGE STORAGE TANKS. EXCESSIVE DIGESTED SLUDGE IS STORED IN THESE TANKS.

TWO DUAL BED ACTIVATED CARBON ADSORPTION VESSELS HAVE BEEN SCHEDULED TO BE INSTALLED AT THESE TWO TANKS FOR ODOR CONTROL.

THE TOTAL THRUPUT IS CALCULATED BASED ON THE ODOR CONTROL SYSTEMS' DESIGNED VENTILATION AIR FLOW CAPACITY.

Process: DGH is located at Building GHOLDING - THIS PROCESS IS THE DIGESTER GAS HOLDING (DGH) TANK. THIS TANK HAS NO ADD ON EMISSION CONTROL BUT ITS EMISSION COULD BE IGNORED BECAUSE THE TANK HAS NO ACTIVE EMISSION POINTS AND OR POLLUTANT RELEASES. THE TOTAL THRUPUT IS ESTIMATED BASED ON THE OPERATION DATA 07/1996-06/1998.

Process: ESS is located at Building ERSTORAGE - THIS PROCESS IS THE EAST RIVER SLUDGE STORAGE (ESS) TANK. THE PURPOSE OF THIS TANK IS TO STORE DIGESTED SLUDGE BEFORE THE SLUDGE IS SHIPPED TO OTHER LOCATIONS AT PLANTS THAT HAVE DEWATERING FACILITIES.

ONE SINGLE BED ACTIVATED CARBON ADSORPTION VESSEL IS INSTALLED ON THIS TANK FOR ODOR CONTROL.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



THE TOTAL THRUPUT IS CALCULATED BASED ON THE ODOR CONTROL SYSTEMS' DESIGNED VENTILATION AIR FLOW CAPACITY.

Process: SAD is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE ANAEROBIC DIGESTION (SAD) PROCESS CONSISTING OF 6 SLUDGE DIGESTION TANKS. AFTER THICKENING, IN ORDER TO BE MADE ENVIRONMENTALLY SAFE, THE SLUDGE IS PLACED IN OXYGEN-FREE TANKS CALLED DIGESTERS. THE DIGESTERS ARE HEATED UP AT LEAST 95 DEGREES FAHRENHEIT FOR A PERIOD OF TIME LASTING BETWEEN 15 TO 20 DAYS. THIS PROCESS STIMULATES THE GROWTH OF ANAEROBIC BACTERIA WHICH IN TURN CONSUMES ORGANIC MATERIAL IN THE SLUDGE. IN THE DIGESTERS, SLUDGE IS CONVERTED INTO WATER, CARBON DIOXIDE AND METHANE GAS. THE METHANE IS USED AS FUEL FOR BOILERS. THE DIGESTED SLUDGE IS PUMPED FROM DIGESTER TANKS TO BOATS AND SENT TO PLANTS THAT HAVE DEWATERING FACILITIES.

TWO SINGLE BED ACTIVATED CARBON ADSORPTION VESSELS ARE INSTALLED ON THE TWO SLUDGE TRANSFER ROOMS THAT ARE USED FOR THE TRANSFER OF SLUDGE FROM THE DIGESTER TANKS. THE ACTIVATED CARBON VESSELS ACHIEVE ODOR CONTROL.

THE TOTAL THRUPUT IS CALCULATED BASED ON THE ODOR CONTROL SYSTEMS' DESIGNED VENTILATION AIR FLOW CAPACITY.

Process: SGT is located at Building SLUDGE - THIS PROCESS IS THE SLUDGE GRAVITY THICKENING (SGT) PROCESS CONSISTING OF 8 GRAVITY THICKENING TANKS. THE SLUDGE FROM PRIMARY AND SETTLING (APPROXIMATELY 99% WATER) ARE CONCENTRATED IN THE THICKENING TANKS. THE WATER IS SENT BACK TO THE HEAD OF THE PLANT OR AERATION TANKS FOR ADDITIONAL TREATMENT.

TWO SINGLE BED ACTIVATED CARBON ADSORPTION VESSELS ARE INSTALLED AT THIS PROCESS FOR ODOR CONTROL.

THE TOTAL THRUPUT IS BASED ON THE ODOR CONTROL SYSTEM'S DESIGNED VENTILATION AIR FLOW CAPACITY.

Emission unit 3NSLUD - THIS UNIT WILL CONSIST OF THE OPERATION IN THE NEW DIGESTION BUILDING AND THE SERVICE BUILDING. THE DIGESTION BUILDING WILL INCLUDE 8 NEW ANAEROBIC DIGESTERS AND TWO NEW SLUDGE STORAGE TANKS. THE SERVICE BUILDING HOUSES THE ODOR CONTROL SYSTEM THAT WILL BE USED TO CONTROL THE ODORS FROM THE DIGESTERS AND THE SLUDGE STORAGE TANKS.

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

3NAD1

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

Process: NAD is located at Building SERVICE - UNDER THE FINAL UPGRADE, THE NEW SLUDGE ANAEROBIC DIGESTION (NAD) PROCESS WILL CONSIST OF 8 NEW DIGESTERS AND 2 NEW SLUDGE STORAGE TANKS. THE PROCESS WILL REPLACE THE EXISTING SLUDGE ANAEROBIC DIGESTION (SAD) PROCESS. THE ODORS FROM THE 8 DIGESTER OVERFLOW BOXES AND THE 2 SLUDGE STORAGE TANKS WILL BE CONTROLLED USING

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



A CARBON ADSORBER SYSTEM. THE ODOR CONTROL SYSTEM WILL CONSIST OF TWO DUAL BED CARBON ADSORBERS. UNDER NORMAL OPERATIONS, ONE UNIT WILL BE OPERATING AND ONE UNIT WILL BE ON STANDBY.

Emission unit 5MISCS - THIS UNIT CONSISTS OF THE PLANT'S THREE WASTE SLUDGE DIGESTER GAS BURNERS TO FLARE EXCESSIVE SLUDGE DIGESTER GAS. THESE BURNERS ARE LOCATED ON THE TOP OF THE SLUDGE DIGESTER GAS HOLDING TANK BUT AT ABOUT GROUND LEVEL. FINAL UPGRADE WILL REMOVE THE 3 EXISTING FLARES AND WILL INSTALL 4 ENCLOSED FLARES. THERE ARE TOTAL OF FOUR >10,000 GAL STORAGE TANKS FOR HYPOCHLORITE AND FERRIC CHLORIDE STORAGE AT THE PLANT.

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

Process: CST is located at Building OUTDOOR - THIS PROCESS INCLUDES THE PLANT'S STORAGE TANKS THAT EXCEED THE 10,000 GAL EXEMPT THRESHOLD. THERE ARE TWO 20,000 GALLON HYPOCHLORITE STORAGE TANKS AT THE NEW DISINFECTION BUILDING AND TWO 20000 GALLON FERRIC CHLORIDE STORAGE TANKS AT THE CHEMICAL BUILDING. THESE TANKS ARE NOT SCC CLASSIFIED.

Emission unit 1BLERS - THIS EMISSION UNIT CONSISTS OF THE PLANT'S BOILERS FOR BOTH THE SPACE AND SLUDGE HEATING DEMAND. THE PLANT CURRENTLY HAS THREE CLEAVER BROOKS CB 700-400-15 GAS FIRED STEAM BOILERS INSTALLED IN 1998 AND EACH RATED 16.75 MMBTU/HR. ONE BOILER IS OPERATED CONTINUOUSLY THROUGHOUT THE YEAR AND TWO BOILERS WILL BE OPERATED FOR PEAK HEATING DEMAND DURING WINTER. DURING THE INTERIM UPGRADE, TWO 350 HP GAS FIRED BOILERS WILL BE INSTALLED AND OPERATED TO PROVIDE HEATING FOR THE SUPPORT AND DISINFECTION BUILDINGS. THE FINAL PLANT UPGRADING WILL REPLACE THE EXISTING THREE BOILERS AND THE TWO INTERIM BOILERS WITH NINE 29.5 MMBTU/HR CLEAVER BROOKS/CB-LE BOILERS. ALL OF THESE BOILERS USE PRIMARILY SLUDGE DIGESTER GAS UNDER NORMAL CONDITION AND NATURAL GAS WHEN SLUDGE DIGESTER GAS IS INSUFFICIENT. THE INTERIM BOILERS WILL USE ONLY NATURAL GAS.

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

1BLR1, 1BLR2, 1BLR3, 1BLR4, 1BLR5, 1UBLR, 1BLR1, 1BLR2

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

Process: BLR is located at Building NMAIN - THIS PROCESS IS FOR THE PROPOSED UP TO NINE 25.08 MM BTU/HR CLEAVER BROOKS CB-LE BOILERS TO FIRE GASEOUS FUEL (SLUDGE DIGESTER GAS OR NATURAL GAS OR BLEND). THESE PROPOSED BOILERS ARE SCHEDULED TO BE INSTALLED IN 06/2000 TO REPLACE THE EXISTING 16.75 MM BTU/HR CLEAVER BROOKS CB 700-400 - 15 BOILERS. THESE PROPOSED BOILERS NORMALLY FIRE SLUDGE DIGESTER GAS. AT TIMES THAT SLUDGE DIGESTER GAS IS INSUFFICIENT, THESE BOILERS WILL FIRE NATURAL GAS OR BLEND. UP TO EIGHT OF THESE PROPOSED BOILERS MAY BE OPERATED AT A TIME FOR PEAK DEMAND DURING WINTER. AT ALL TIMES, AT THE LEAST ONE BOILER IS KEPT OFFLINE AS STANDBY.

Process: IBLThe interim hpt water boiler system includes 2 Clever Brooks CB-LE gas fired boilers, each 350 HP. Of the two, one is operating and other is standby unit. The operating unit can handle all of the demands so it is expected that it will be operating close to 100% load at various times.

Process: IUB is located at Building MAIN - THIS PROCESS IS FOR THE THREE EXISTING 16.75

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



MMBTU/HR CLEAVER BROOKS CB 700-400-15 BOILERS TO FIRE GASEOUS FUEL (SLUDGE DIGESTER GAS OR NATURAL GAS OR BLEND) UNTIL THE PROPOSED UP TO NINE 25.08 MM BTH/HR CLEAVER BROOKS CB LE BOILERS TO BE INSTALLED BY THE PLANT FINAL UPGRADING ARE IN OPERATION. THESE EXISTING BOILERS NORMALLY FIRE SLUDGE DIGESTER GAS. AT TIMES THAT SLUDGE DIGESTER GAS IS INSUFFICIENT, THESE BOILERS WILL FIRE NATURAL GAS OR BLEND. ONE BOILER IS CONTINUOUSLY OPERATED THROUGHOUT THE YEAR AND TWO BOILERS ARE OPERATED FOR PEAK HEATING DEMAND DURING WINTER. AT ALL TIMES, AT THE LEAST ONE BOILER IS KEPT OFFLINE AS STANDBY.

Emission unit 6FLARE - THIS UNIT CONSISTS OF THE PLANT'S THREE WASTE SLUDGE DIGESTER GAS BURNERS TO FLARE EXCESSIVE SLUDGE DIGESTER GAS. THESE BURNERS ARE LOCATED ON THE TOP OF THE SLUDGE DIGESTER GAS HOLDING TANK BUT AT ABOUT GROUND LEVEL. FINAL UPGRADE WILL REMOVE THE 3 EXISTING FLARES AND WILL INSTALL 4 ENCLOSED FLARES.

THIS UNIT WILL CONSIST OF THE FOUR NEW WASTE GAS BURNERS THAT WILL BE CONSTRUCTED TO REPLACE THE THREE EXISTING WASTE GAS BURNERS.

Emission unit 6FLARE is associated with the following emission points (EP):

5FLA1, 5FLA2, 5FLA3, 6BUG1, 6BUG2, 6BUR3, 6BUR4

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

Process: BUG is located at Building OUTDOOR - AS PART OF THE PLANT'S FINAL UPGRADE, FOUR NEW WASTE SLUDGE DIGESTER GAS BURNERS WILL BE INSTALLED. THE FOUR NEW WASTE GAS BURNERS WILL REPLACE THE THREE EXISTING WASTE GAS BURNERS.

THE EXCESSIVE SLUDGE DIGESTER GAS PRODUCED AT THE PLANT WILL BE BURNED AT THESE FOUR WASTE GAS BURNERS. AFTER THE FINAL UPGRADE, THIS PROCESS (BUR) WILL REPLACE PROCESS (FLA). THE TOTAL THROUGHPUT OF THE WASTE BURNER OPERATIONS IS BASED ON THE ESTIMATED DIGESTER GAS PRODUCTION AT THE PLANT AFTER THE FINAL UPGRADE.

Process: FLA is located at Building OUTDOOR - THIS PROCESS IS THE PLANT'S THREE WASTE SLUDGE DIGESTER GAS BURNERS. AT TIMES THAT THE SLUDE DIGESTER GAS PRODUCED AT THE PLANT IS MORE THAN THE DEMAND OF THE PLANT'S BOILERS, THE EXCESSIVE SLUDGE DIGESTER GAS WILL BE BURNED AT THE THREE WASTE GAS BURNERS. AFTER CEASING THE OPERATION OF THE PLANT'S INTERNAL COMBUSTION ENGINES, IT IS ESTIMATED THAT 50% OF THE SLUDGE DIGESTER GAS WILL NEED TO BE BURNED AT THE WASTE GAS BURNERS. THE TOTAL THRUPUT IS ESTIMATED BASED ON 50% OF THE SLUDGE DIGESTER GAS TOTAL PRODUCED 7/1997-6/1998.

Emission unit 7GTURB - This EU consist of four 5 MW emergency gas turbines and two black start engines. The emergency turbine generators are used in the event of emergency, such as servise disruption or a black out and may be operated for participation in the NYPA Independent Systems Operator (NYPAISO) Program. The emergency turbines would provide backup power to the plant during those times. These units will be exercised on a routine basis. The two black start engines are used to start the turbines and will be operated for routine maintenance.

Emission unit 7GTURB is associated with the following emission points (EP):

BENG1, BENG2, TURB1, TURB2, TURB3, TURB4

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



**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**

Process: ENG is located at Building NMAIN - The plant will have 2 black start internal combustion engine generators that will be used to kick start the emergency turbines. For testing, these units are expected to operate for routine testing and maintenance.

Process: TRB is located at Building NMAIN - As part of track 3 upgrade, new generators will be installed and operated at the plant. The proposed upgrade will include four 5 MW gas turbines. The emergency turbine generators are used in the event of emergency, such as service disruption or a black out and may be operated for participation in the NYPA Independent Systems Operator (NYPAISO) Program. The emergency turbines would provide backup power to the plant during those times.

Emission unit 4RESID - THIS UNIT CONSISTS OF THE PLANTS GREASE SCUM RESIDUAL HANDLING PROCESS AT THE NORTH AND SOUTH GREASE CONTROL BUILDINGS. THE PROCESS IS AT THE SCUM CONTROL ROOMS OF THESE BUILDING AND THESE BUILDINGS UNDER ODOR CONTROL BY ACTIVATED CARBON ADSORPTION VESSELS. THIS UNIT ALSO INCLUDES TWO SMALL ACTIVATED CARBON ADSORPTION VESSELS INSTALLED AT THE NORTH AND SOUTH SCUM MANHOLES.

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

4NGCB, 4NSMH, 4RHOC, 4SGCB, 4SSMH

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

Process: SCU is located at Building NGCB - THIS PROCESS IS THE PLANT'S SCUM RESIDUAL HANDLING AND REMOVING PROCESS. THIS PROCESS IS AT THE NORTH AND SOUTH SCUM ROOMS WITHIN THE NORTH AND SOUTH GREASE CONTROL BUILDINGS. EACH OF THESE TWO BUILDINGS IS UNDER ODOR CONTROL BY ACTIVATED CARBON VESSELS. THERE ARE ALSO TWO SMALLER ACTIVATED CARBON ADSORPTION VESSELS INSTALLED AT THE NORTH AND SOUTH SCUM MANHOLES ADJACENT TO THE OUTDOOR AERATIONS TANKS. THE TOTAL THRUPUT IS BASED ON THE DESIGNED VENTILATION AIR FLOW CAPACITY OF THE ACTIVATED CARBON ADSORPTION VESSELS.

**Title V/Major Source Status**

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

The Newtown Creek WPCP is a major facility because it causes emissions of NOX exceeds 25 tons per year each. Since the Borough of Brooklyn where the facility is located is classified as a severe nonattainment area for Ozone, Newtown Creek WPCP is a major facility according to Part 231 of 6NYCRR.

**Program Applicability**

The following chart summarizes the applicability of NYC-DEP NEWTOWN CREEK WPCP with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
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**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**

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

**NOTES:**

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

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

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

**MACT** Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

**NSPS** New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the



**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**

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.

<b>SIC Code</b>	<b>Description</b>
4952	SEWERAGE SYSTEMS

**SCC Codes**

SCC or Source Classification Code is a code developed and used by the USEPA to categorize

# New York State Department of Environmental Conservation

## Permit Review Report

Permit ID: 2-6101-00025/00057 Modification Number: 2



10/04/2005

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
3-01-830-01	CHEMICAL MANUFACTURING CHEMICAL MANUFACTURING - GENERAL PROCESSES Storage/Transfer
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-03-007-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - PROCESS GAS
2-01-001-01	POTW DIGESTER GAS-FIRED BOILER INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
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
5-01-007-07	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT POTW: HEADWORKS SCREENING
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

### Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6101-00025/00057 Modification Number: 2

10/04/2005



the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
000079-34-5	1, 1, 2, 2-TETRACHLOROETHANE (HAP)	> 0	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
000095-47-6	BENZENE, 1, 2-DIMETHYL (HAP)	> 0	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
000067-66-3	CHLOROFORM (HAP)	> 0	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
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	>= 10	tpy but < 25 tpy
007783-06-4	HYDROGEN SULFIDE	> 0	but < 2.5 tpy
007439-92-1	LEAD (HAP)	> 0	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	>= 40	tpy but < 50 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	>= 10	tpy but < 25 tpy
000106-42-3	XYLENE, PARA- (HAP)	> 0	but < 10 tpy

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



**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)**

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.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**



**10/04/2005**

**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 - 6 NYCRR Part 201-6.5(a)(5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item H: Property Rights - 6 NYCRR Part 201-6.5(a)(6)**

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

**Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)**

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

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**



**10/04/2005**

**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.

**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

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**



**10/04/2005**

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 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.

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



**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**

**Item M: Federally Enforceable Requirements - 40 CFR 70.6(b)**  
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Short Description</b>	<b>Condition</b>
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	36
1-BLERS	40CFR 60-Dc.48c(a)	Reporting and Recordkeeping Requirements.	19
FACILITY	40CFR 68	Chemical accident prevention provisions	13
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	14
FACILITY	6NYCRR 200.6	Acceptable ambient air	1-1

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6101-00025/00057 Modification Number: 2

10/04/2005



		quality.	
FACILITY	6NYCRR 200.7	Maintenance of equipment.	1-4
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	37
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, 15, 16
FACILITY	6NYCRR 201-6.5(a)(4)	General conditions	1-10
FACILITY	6NYCRR 201-6.5(a)(7)	General conditions	
Fees 1-2			
FACILITY	6NYCRR 201-6.5(a)(8)	General conditions	1-11
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	2
FACILITY	6NYCRR 201-6.5(c)(2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(d)(5)	Compliance schedules	1-9
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	5
FACILITY	6NYCRR 201-6.5(f)(6)	Off Permit Changes	1-12
FACILITY	6NYCRR 201-6.5(g)	Permit shield	6
FACILITY	6NYCRR 201-7.2	Emission capping using synthetic minor permits.	42
1-BLERS	6NYCRR 201-7.2	Emission capping using synthetic minor permits.	43, 44, 45
6-FLARE	6NYCRR 201-7.2	Emission capping using synthetic minor permits.	46, 47, 48
7-GTURB	6NYCRR 201-7.2	Emission capping using synthetic minor permits.	49, 50, 51, 52
FACILITY	6NYCRR 202-1.1	Required emissions tests.	1-13
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	38, 39, 40
FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	1-14
6-FLARE	6NYCRR 212	General Process Emission Sources	33
2-WWTRE	6NYCRR 212.4(a)	General Process Emission Sources - emissions from new sources and/or modifications	29
3-NSLUD	6NYCRR 212.4(a)	General Process Emission	30

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6101-00025/00057 Modification Number: 2

10/04/2005



		Sources - emissions from new sources and/or modifications	
3-SLUDG	6NYCRR 212.4 (a)	General Process Emission Sources - emissions from new sources and/or modifications	31
4-RESID	6NYCRR 212.4 (a)	General Process Emission Sources - emissions from new sources and/or modifications	32
FACILITY	6NYCRR 212.6 (a)	General Process Emission Sources - opacity of emissions limited	9
FACILITY	6NYCRR 215	Open Fires	1-3
FACILITY	6NYCRR 225.1 (a) (3)	Sulfur in Fuel Limitations (SIP)	11
FACILITY	6NYCRR 225-1.8	Reports, sampling and analysis.	10
1-BLERS	6NYCRR 227.2 (b) (1)	Particulate emissions.	18
1-BLERS	6NYCRR 227-1.3	Smoke Emission Limitations.	17
6-FLARE	6NYCRR 227-1.3	Smoke Emission Limitations.	34
7-GTURB	6NYCRR 227-1.3	Smoke Emission Limitations.	35
FACILITY	6NYCRR 227-1.3 (a)	Smoke Emission Limitations.	12
1-BLERS/-/BLR/BLER1	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	20
1-BLERS/-/BLR/BLER2	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	21
1-BLERS/-/BLR/BLER3	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	22
1-BLERS/-/BLR/BLER4	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	23
1-BLERS/-/BLR/BLER5	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	24
1-BLERS/-/BLR/BLER6	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	25
1-BLERS/-/BLR/BLER7	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	26
1-BLERS/-/BLR/BLER8	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	27
1-BLERS/-/BLR/BLER9	6NYCRR 227-2.4 (d)	RACT for Oxides of Nitrogen - small boilers.	28
1-BLERS	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	43, 44, 45
6-FLARE	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	46, 47, 48
7-GTURB	6NYCRR 231-2	New Source Review in Nonattainment Areas and	49, 50, 51, 52

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

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



FACILITY	6NYCRR 257-10	Ozone Transport Region Air Quality Standards - Hydrogen Sulfide	41
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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. 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.

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

**Permit ID: 2-6101-00025/00057 Modification Number: 2**



**10/04/2005**

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 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

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**



**10/04/2005**

and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

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 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 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 there applicability thresholds and sets

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

**Permit ID: 2-6101-00025/00057 Modification Number: 2**



**10/04/2005**

the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

**Facility Specific Requirements**

In addition to Title V, NYC-DEP NEWTOWN CREEK WPCP has been determined to be subject to the following regulations:

40CFR 60-Dc.48c (a)

This regulation requires the owner and operator of each affected facility to submit notification of the date of construction or reconstruction, anticipated startup, and actual startup of the facility. The notification must include the following information:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

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, 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

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



certified by the designated responsible official of the facility.

6NYCRR 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 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 201-7.2

This section of Part 201-7 specifies the criteria that need to be met in order to restrict emissions to avoid Title V or other applicable requirements using federally enforceable permit conditions in a state facility permit.

6NYCRR 212

Under the provisions of 6NYCRR Part 212 DEC establishes the pollutant emission rates that may be released by an industrial pollution source. The review guidelines of Part 212 ensure that the allowable pollutant emission rates from an industrial source do not cause adverse health or environmental impacts.

6NYCRR 212 .4 (a)

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 212 .6 (a)

This rule specifies an opacity limitation of less than 20% for any six consecutive minute period for all 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

This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to submit reports to the commissioner containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 2-6101-00025/00057 Modification Number: 2**

**10/04/2005**



compliance with the provisions of 6 NYCRR Part 225-1.

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 227-2.4 (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 231-2

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

6NYCRR 257-10

Part 257-10 establishes the following standard for the release of Hydrogen Sulfide (H<sub>2</sub>S): Applicable in all levels In any one-hour period, the average concentration of hydrogen sulfide shall not exceed 0.01 ppm (14 ug/m<sup>3</sup>).

Hydrogen sulfide can cause odors which unreasonably interfere with the comfortable enjoyment of life and property. Although tarnishing of metals and discoloring of paint may occur at higher ambient air concentrations the primary objective of this standard is to prevent disagreeable odors.

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 NEWTOWN CREEK WPCP:

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6101-00025/00057 Modification Number: 2

10/04/2005



Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
1-BLERS	record keeping/maintenance procedures	19
FACILITY	record keeping/maintenance procedures	4
FACILITY	record keeping/maintenance procedures	5
1-BLERS	work practice involving specific operations	43
1-BLERS	intermittent emission testing	44
1-BLERS	work practice involving specific operations	45
6-FLARE	work practice involving specific operations	46
6-FLARE	work practice involving specific operations	47
6-FLARE	intermittent emission testing	48
7-GTURB	work practice involving specific operations	49
7-GTURB	intermittent emission testing	50
7-GTURB	intermittent emission testing	51
7-GTURB	work practice involving specific operations	52
FACILITY	record keeping/maintenance procedures	7
FACILITY	record keeping/maintenance procedures	39
FACILITY	monitoring of process or control device parameters as surrogate	40
6-FLARE	record keeping/maintenance procedures	33
FACILITY	record keeping/maintenance procedures	9
FACILITY	work practice involving specific operations	11
FACILITY	work practice involving specific operations	10
1-BLERS	intermittent emission testing	18
1-BLERS	record keeping/maintenance procedures	17
6-FLARE	record keeping/maintenance procedures	34
7-GTURB	record keeping/maintenance procedures	35
FACILITY	monitoring of process or control device parameters as surrogate	12
1-BLERS/-/BLR/BLER1	record keeping/maintenance procedures	20
1-BLERS/-/BLR/BLER2	record keeping/maintenance procedures	21
1-BLERS/-/BLR/BLER3	record keeping/maintenance procedures	22
1-BLERS/-/BLR/BLER4	record keeping/maintenance procedures	23
1-BLERS/-/BLR/BLER5	record keeping/maintenance procedures	24
1-BLERS/-/BLR/BLER6	record keeping/maintenance procedures	25
1-BLERS/-/BLR/BLER7	record keeping/maintenance procedures	26
1-BLERS/-/BLR/BLER8	record keeping/maintenance procedures	27
1-BLERS/-/BLR/BLER9	record keeping/maintenance procedures	28
FACILITY	record keeping/maintenance procedures	41

**Basis for Monitoring**