



Facility Identification Data

Name: RIVERBAY CORP-CO-OP CITY
Address: 2049 BARTOW AVE
BRONX, NY 10475

Owner/Firm

Name: RIVERBAY CORP
Address: 2049 BARTOW AVE
BRONX, NY 10475-4613, USA
Owner Classification: Corporation/Partnership

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 is a Title V renewal permit application. The existing Title V permit is due to expire on 3/3/2007. The renewal permit application involves the installation of a combustion gas turbine cogeneration system. The installation will include two (2) combustion turbine generating (CTG) trains (Emission Units U-00004 & U-00006). Each CTG train will include a combustion gas turbine (Emission Sources GT004 & GT006), rated at 131 MM Btu/hr with 12 MW power output, firing natural gas (Processes 009 & 14 at 100% load, and Processes P10 & 015 at 100% load) or ultra low sulfur (< 15 ppm S) distillate fuel oil (Processes 007 & 012 at



100% load, and Processes 008 & 013 at 70% load), a duct burner (Emission Controls GTC04 & GTC06), rated at 60.7 MM Btu/hr, firing natural gas only (Processes 011 & 016), and a once through steam generator (OTSG). Each CTG train will vent out of a separate stack (Emission Points 0004 & 0006) mounted on top of the OTSG. High pressure steam will be directed through a steam recovery turbine generator rated at 16 MW. Operating restrictions will be taken on oil and natural gas usage, and on equipment operating hours such that the allowable increment increases for NYSDEC NSR and USEPA PSD are not exceeded. For emergency operation, the facility will install two (2) generators, rated at 1500 kw each (exempt sources).

Processes:

- 007 & 012 Combustion Gas Turbines GTC04 & GTC06 firing # 2 fuel oil at maximum load operation (100%)
- 008 & 013 Combustion Gas Turbines GTC04 & GTC06 firing # 2 fuel oil at minimum load operation (70%)
- 009 & 014 Combustion Gas Turbines GTC04 & GTC06 firing natural gas at maximum load operation (100%)
- P10 & 015 Combustion Gas Turbines GTC04 & GTC06 firing natural gas at minimum load operation (70%)
- 011 & 016 Duct Burners GTC04 & GTC06 firing natural gas only

The operating restrictions on oil and natural gas usage are as follows:

Processes	Limit for both turbines Before Stack Test	Limit for both turbines After Stack Test
007 & 012, 008 & 013	720 hrs/yr	3,460 hrs/yr @ any load
008 & 013	300 hrs/yr	1,730 hrs/yr @ 70% load
007 & 012, 008 & 013 009 & 014, P10 & 15	14,000 hrs/yr	14,000 hrs/yr @ all loads
P10 & 15, 008 & 013	5,820 hrs/yr	7,000 hrs/yr @ 70% load
011 & 016	320 MM CF	320 MM CF

Attainment Status

RIVERBAY CORP-CO-OP CITY is located in the town of BRONX in the county of BRONX. 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 < 10 μ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO ₂)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NO _x)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

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

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

Facility Description

Riverbay Co-Op is a housing development consisting of more than 15,000 apartments, 3 shopping centers, and 8 garages. The entire facility is heated and cooled by the Power Plant, which generates steam and chilled water. The facility operates two low pressure (LP) boilers (Emission Sources 00001 & 00002 in Emission Units U-00001 & U-00002; respectively), using # 6 fuel oil (maximum 0.30 % S) - Processes 001 & 003 or natural gas (Processes 002 & 004), rated at 371 MM Btu/hr each. A new High Pressure (HP) boiler # 4 (Emission Source 00003 in Emission Unit U-00003), rated at 212 MM Btu/hr, firing natural gas (Process 006) or ultra low sulfur fuel oil (< 15.0 ppm S) - Process 005) was installed in December 2006 to replace an existing boiler (rated at 377 MM Btu/hr) which is not operational and beyond reasonable repair cost. Each boiler discharges to a separate stack.

This Title V renewal is submitted to install two new combustion gas turbines cogeneration systems. The installation will include two new combustion turbine generating (CTG) trains (Emission Units U-00004 & U-00006). Each CTG train will include a combustion gas turbine (Emission Sources GT004 & GT006), rated at 131 MM Btu/hr with 12 MW power output, firing natural gas (Processes 009 & 14 at 100% load, and Processes P10 & 015 at 70% load) or ultra low sulfur (< 15.0 ppm S) distillate fuel oil (Processes 007 & 012 at 100% load, and Processes 008 & 013 at 70% load), a duct burner (Emission Controls GTC04 & GTC06), rated at 60.7 MM Btu/hr each, firing natural gas only (Processes 011 & 016), and a once through steam generator (OTSG). Each CTG train will vent out of a separate stack (Emission Points 0004 & 0006) mounted on top of the OTSG. High pressure steam will be directed through a steam recovery turbine generator rated at 16 MW. Operating restrictions will be taken on oil and natural gas usage, and on equipment operating hours such that the allowable increment increases for NYSDEC NSR and USEPA PSD are not exceeded. For emergency operation, the facility will install two (2) generators, rated at 1500 kw each (exempt sources).

Processes:

007 & 012 Combustion Gas Turbines GTC04 & GTC06 firing # 2 fuel oil at maximum load operation (100%)

008 & 013 Combustion Gas Turbines GTC04 & GTC06 firing # 2 fuel oil at minimum load operation (70%)



009 & 014 Combustion Gas Turbines GTC04 & GTC06 firing natural gas at maximum load operation (100%)

P10 & 015 Combustion Gas Turbines GTC04 & GTC06 firing natural gas at minimum load operation (70%)

011 & 016 Duct Burners GTC04 & GTC06 firing natural gas only

The operating restrictions on oil and natural gas usage are as follows:

Processes	Limit for both turbines Before Stack Test	Limit for both turbines After Stack Test
007 & 012, 008 & 013	720 hrs/yr	3,460 hrs/yr @ any load
008 & 013	300 hrs/yr	1,730 hrs/yr @ 70% load
007 & 012, 008 & 013 009 & 014, P10 & 15	14,000 hrs/yr	14,000 hrs/yr @ all loads
P10 & 15, 008 & 013	5,820 hrs/yr	7,000 hrs/yr @ 70% load
011 & 016	320 MM CF	320 MM CF

The facility's emissions exceed the major source pollutant thresholds listed in 6 NYCRR 201-6 and, as such, the facility is subject to the provisions of Title V. The facility's emissions of Oxides of Nitrogen, Carbon Monoxide and Ammonia will be continuously monitored.

Riverbay Corp Co-Op City consists of five emission units: U-00001, U-00002, U-00003, U-00004 & U-00006. Below is a description of these five emission units:

Emission Unit U-00001 is comprised of a 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001) that was constructed July 1968. The emissions exhaust through a stack, identified as Emission Point 00001. This low pressure boiler is capable of firing either natural gas (Process 002) or # 6 fuel oil (Process 001). The conversion to operating w/dual fuel burners commenced in May 1995.

Emission Unit U-00002 is comprised of a 371 MM Btu/hr low pressure Riley Stoker Model OD-1 boiler (Emission Source 00002) that was constructed July 1968. The emissions exhaust through a stack, identified as Emission Point 00002. This low pressure boiler is capable of firing either natural gas (Process 004) or # 6 fuel oil (Process 003). The conversion to operating w/dual fuel burners commenced in May 1995.

Emission Unit U-00003 is comprised of one state-of-the art new high pressure and low heat release boiler (Rentech Model D Watertube), rated at 212 MM BTU/hr (Emission Source S0003), firing ultra low 15 ppm sulfur by weight distillate oil (Process 005) or natural gas (Process 006), venting to existing stack (Emission Point 00003) for Emission Source ES004 in Emission Unit U-00005. The new boiler will be equipped with a low NOx burner and Flue Gas Recirculation - FGR (Emission Control C0003). Potential emissions of all criteria air pollutants will be significantly lower for the new boiler.



This is a replacement for the existing high pressure boiler (Emission Source ES004 in Emission Unit U-00003), which is a Riley-Stoker Model OD-1, rated at 377 MM BTU/hr, firing #6 fuel oil or natural gas and is being de-commissioned due to excessive repair needs. The existing boiler, which was installed in 1968, is not operational and will be de-commissioned since repair costs are excessive. The existing boiler is rated at 377 MM BTU/hr and is permitted to burn #6 fuel oil or natural gas.

Emission Unit U-00004 is comprised of a Combustion Gas Turbine (Siemens Model GT-400), rated at 131 MM Btu/hr (Emission Source GT004) firing natural gas (Processes 009 & P10) or ultra low 15 ppm sulfur by weight distillate fuel oil (Processes 007 & 008). The CTG is rated to produce 12 MW of electrical power. The CTG exhausts gas is further heated by a natural gas fired (Process 011) duct burner (Emission Control GTC04), rated at 60.7 MM Btu/hr. The duct burner design operating rates are 46 MM Btu/hr at maximum inlet temperature of 55 degrees Fahrenheit, and 53.3 MM Btu/hr at minimum inlet temperature of minus 5 degrees Fahrenheit duct burner. The exhaust gas then passes through an oxidation catalyst to destroy carbon monoxide (CO) and Volatile Organic Compounds (VOC) and then through a Selective Catalytic Oxidation (SCR) system to destroy nitrogen oxides (NOx). The gas then vents out of a stack (Emission Point 00004) mounted on top of a once through steam generator (OTSG). To improve turbine performance, the inlet air is cooled to a maximum of 55 degrees Fahrenheit. The gas turbine is limited to operating a maximum of 2,160 hours/year on distillate fuel oil. In addition, the gas turbine may not operate at low load for more than 50 % of the operating hours.

Emission Unit U-00006 is comprised of a Combustion Gas Turbine (Siemens Model GT-400), rated at 131 MM Btu/hr (Emission Source GT006) firing natural gas (Processes 14 & 15) or ultra low 15 ppm sulfur by weight distillate oil (Processes 012 & 013). The CTG is rated to produce 12 MW of electrical power. The CTG exhausts gas is further heated by a natural gas fired (Process 016) duct burner (Emission Control GTC06), rated at 60.7 MM Btu/hr. The duct burner design operating rates are 46 MM Btu/hr at maximum inlet temperature of 55 degrees Fahrenheit, and 53.3 MM Btu/hr at minimum inlet temperature of minus 5 degrees Fahrenheit duct burner. The exhaust gas then passes through an oxidation catalyst to destroy carbon monoxide (CO) and Volatile Organic Compounds (VOC) and then through a Selective Catalytic Oxidation (SCR) system to destroy nitrogen oxides (NOx). The gas then vents out of a stack (Emission Point 00006) mounted on top of a once through steam generator (OTSG). To improve turbine performance, the inlet air is cooled to a maximum of 55 degrees Fahrenheit. The gas turbine is limited to operating a maximum of 2,160 hours/year on distillate fuel oil. In addition, the gas turbine may not operate at low load for more than 50 % of the operating hours.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2 (c), including four emergency diesel generators (<500 hours per year each), two distillate and residual fuel oil storage tanks (<300,000 bbls capacity), three storage tanks (<10,000 gallons capacity), and five non-contact water cooling towers and water treatment systems.

Permit Structure and Description of Operations

The Title V permit for RIVERBAY CORP-CO-OP CITY 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.

RIVERBAY CORP-CO-OP CITY is defined by the following emission unit(s):

Emission unit U00004 - Emission Unit U-00004 is comprised of a Combustion Gas Turbine (Siemens Model GT-400), rated at 131 MM Btu/hr (Emission Source GT004) firing natural gas (Processes 009 & P10) or low 0.5 % sulfur by weight distillate fuel oil (Processes 007 & 008). The CTG is rated to produce 12 MW of electrical power. The CTG exhausts gas is further heated by a natural gas fired (Process 011) duct burner (Emission Control GTC04), rated at 60.7 MM Btu/hr. The duct burner design operating rates are 46 MM Btu/hr at maximum inlet temperature of 55 degrees Fahrenheit, and 53.3 MM Btu/hr at minimum inlet temperature of minus 5 degrees Fahrenheit duct burner. The exhaust gas then passes through an oxidation catalyst to destroy carbon monoxide (CO) and Volatile Organic Compounds (VOC) and then through a Selective Catalytic Oxidation (SCR) system to destroy nitrogen oxides (NOx). The gas then vents out of a stack (Emission Point 00004) mounted on top of a once through steam generator (OTSG). To improve turbine performance, the inlet air is cooled to a maximum of 55 degrees Fahrenheit. The gas turbine is limited to operating a maximum of 2,160 hours/year on distillate fuel oil. In addition, the gas turbine may not operate at low load for more than 50 % of the operating hours.

Emission unit U00004 is associated with the following emission points (EP):
00004

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

Process: 007 is located at Building PPLANT - Process 007 is the firing of 0.05 % by weight low sulfur distillate fuel oil in the Siemens Model 400-GT combustion turbine (Emission Source GT004), with maximum heat input rating of 138.5 MM Btu/hr. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00004. Process operation at maximum load. Maximum operating hours on oil is 2,160 hours/year, following approved stack test PM-10 emission test of 15 mg/NM3 or less. Maximum operating hours on oil shall not exceed 720 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Process: 008 is located at Building PPLANT - Process 008 is the firing of low sulfur distillate fuel oil (<0.05 % S) in the Siemens Model 400-GT combustion turbine, with heat input rating of 109.5 MM Btu/hr at 70 % load. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00004. Process operation at minimum load of 70 % (except during start-up or shut-down). Maximum operating hours on oil at low load is 1,080 hours/year, following approved stack test PM-10 emission test of 30 mg/NM3 or less. Maximum operating hours at low load on oil shall not exceed 360 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Process: 009 is located at Building PPLANT - Process 009 is the firing of natural gas in the Siemens Model 400-GT combustion turbine with maximum heat input rating of 110.6 MM Btu/hr at 70 % load. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00004. Process operation at minimum load is 70 % (except during start-up or shut-down). Maximum total operating hours for both gas turbines (U-00004 and U-00006) at low load is 7,000 hours/year. Maximum operating hours on oil at minimum load is 1080 hours/year, following approved stack test PM-10 emission test of 30 mg/NM3 or less on oil and 15 mg/NM3 or less on gas. Maximum operating hours on oil at minimum load shall not exceed 360 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.



Process: 011 is located at Building PPLANT - Process 011 is the firing of natural gas in the Forney Model 5156-IST duct burner with maximum heat input rating of 60.7 MMBtu/hr. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00004. Maximum total fuel consumption for both duct burners is 320 MMCF/year.

Process: P10 is located at Building PPLANT - Process P10 is the firing of natural gas in the Siemens Model 400-GT combustion turbine with maximum heat input rating of 110.6 MM Btu/hr at 70 % load. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00006. Process operation at minimum load is 70 % (except during start-up or shut-down). Maximum total operating hours for both gas turbines (U-00004 and U-00006) at low load is 7,000 hours/year. Maximum operating hours on oil at minimum load is 1,080 hours/year, following approved stack test PM-10 emission test of 30 mg/NM3 or less on oil and 15 mg/NM3 or less on gas. Maximum operating hours on oil at minimum load shall not exceed 360 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Emission unit U00006 - Emission Unit U-00006 is comprised of a Combustion Gas Turbine (Siemens Model GT-400), rated at 131 MM Btu/hr (Emission Source GT005) firing natural gas (Processes 14 & 15) or low 0.5 % sulfur by weight distillate fuel oil (Processes 012 & 013). The CTG is rated to produce 12 MW of electrical power. The CTG exhausts gas is further heated by a natural gas fired (Process 016) duct burner (Emission Control GTC05), rated at 60.7 MM Btu/hr. The duct burner design operating rates are 46 MM Btu/hr at maximum inlet temperature of 55 degrees Fahrenheit, and 53.3 MM Btu/hr at minimum inlet temperature of minus 5 degrees Fahrenheit duct burner. The exhaust gas then passes through an oxidation catalyst to destroy carbon monoxide (CO) and Volatile Organic Compounds (VOC) and then through a Selective Catalytic Oxidation (SCR) system to destroy nitrogen oxides (NOx). The gas then vents out of a stack (Emission Point 00006) mounted on top of a once through steam generator (OTSG). To improve turbine performance, the inlet air is cooled to a maximum of 55 degrees Fahrenheit. The gas turbine is limited to operating a maximum of 2,160 hours/year on distillate fuel oil. In addition, the gas turbine may not operate at low load for more than 50 % of the operating hours.

Emission unit U00006 is associated with the following emission points (EP):
00006

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

Process: 012 is located at Building PPLANT - Process 012 is the firing of low sulfur distillate fuel oil (<0.05 % S) in the Siemens Model 400-GT combustion turbine, with maximum heat input rating of 138.5 MM Btu/hr. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00006. Process operation at maximum load. Maximum operating hours on oil is 2,160 hours/year, following approved stack test PM-10 emission test of 15 mg/NM3 or less. Maximum operating hours on oil shall not exceed 720 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Process: 013 is located at Building PPLANT - Process 013 is the firing of low sulfur distillate fuel oil (<0.05 % S) in the Siemens Model 400-GT combustion turbine, with heat input rating of 109.5 MM Btu/hr at 70 % load. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00006. Process operation at minimum load of 70 % (except during start-up or shut-down). Maximum operating hours on oil at low load is 1,080 hours/year, following approved stack test PM-10 emission test of 30 mg/NM3 or less. Maximum operating hours at low load on oil shall not exceed 360 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Process: 014 is located at Building PPLANT - Process 014 is the firing of natural gas in the Siemens Model 400-GT combustion turbine with maximum heat input rating of 136.5 MM Btu/hr. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00006. Process operation at maximum load. Maximum operating hours for both gas turbines (U-00004 and U-00006) is 15,000 hours/year. Maximum operating hours on oil is 2,160 hours/year, following approved stack test PM-10 emissions test of 15 mg/NM3 or less on oil and 7.5 mg/NM3 on gas. Maximum operating hours on oil shall not exceed 720 hours/year prior to approved stack test. Stack test to be



performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Process: 015 is located at Building PPLANT - Process 015 is the firing of natural gas in the Siemens Model 400-GT combustion turbine with maximum heat input rating of 110.6 MM Btu/hr at 70 % load. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. Process operation at minimum load is 70 % (except during start-up or shut-down). Maximum total operating hours for both gas turbines (U-00004 and U-00006) at low load is 7000 hours/year. Maximum operating hours on oil at minimum load is 1,080 hours/year, following approved stack test PM-10 emission test of 30 mg/NM3 or less on oil and 15 mg/NM3 or less on gas. Maximum operating hours on oil at minimum load shall not exceed 360 hours/year prior to approved stack test. Stack test to be performed within 60 days of achieving full load, or 180 days from start-up, whichever is less.

Process: 016 is located at Building PPLANT - Process 016 is the firing of natural gas in the Forney Model 5156-IST duct burner with maximum heat input rating of 60.7 MMBtu/hr. CO and VOC emissions are controlled with an oxidation catalyst. NOx emissions are controlled with SCR using aqueous ammonia injection. The emission vents out of a stack identified as Emission Point 00006. Maximum total fuel consumption for both duct burners is 320 MMCF/year.

Emission unit U00001 - Emission Unit U-00001 is comprised of a 371 MM Btu/hr low pressure Riley Stoker Model OD-1 boiler (Emission Source 00001) that was constructed July 1968. The emissions exhaust through a stack, identified as Emission Point 00001. This low pressure boiler is capable of firing either natural gas (Process 002) or # 6 fuel oil (Process 001). The conversion to operating w/dual fuel burners commenced in May 1995.

Emission unit U00001 is associated with the following emission points (EP):
00001

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

Process: 001 is located at FIRST FLOOR, Building PPLANT - Process 001 is the firing of # 6 fuel oil in the Low Pressure Boiler 00001 (Emission Source 00001) in Emission Unit U-00001. The gas emissions are exhausted through a stack identified as Emission Point 00001.

Process: 002 is located at FIRST FLOOR, Building PPLANT - Process 002 is the firing of natural gas in the Low Pressure Boiler 00001 (Emission Source 00001) in Emission Unit U-00001. The gas emissions are exhausted through a stack identified as Emission Point 00001.

Emission unit U00002 - Emission Unit U-00002 is comprised of a 371 MM Btu/hr low pressure Riley Stoker Model OD-1 boiler (Emission Source 00002) that was constructed July 1968. The emissions exhaust through a stack, identified as Emission Point 00002. This low pressure boiler is capable of firing either natural gas (Process 004) or # 6 fuel oil (Process 003). The conversion to operating w/dual fuel burners commenced in May 1995.

Emission unit U00002 is associated with the following emission points (EP):
00002

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

Process: 003 is located at FIRST FLOOR, Building PPLANT - Process 003 is the firing of # 6 fuel oil in the Low Pressure Boiler 00002 (Emission Source 00002) in Emission Unit U-00002. The gas emissions are exhausted through a stack identified as Emission Point 00002.

Process: 004 is located at FIRST FLOOR, Building PPLANT - Process 004 is the firing of natural gas in the Low Pressure Boiler 00002 (Emission Source 00002) in Emission Unit U-00002. The gas emissions are exhausted through a stack identified as Emission Point 00002.

Emission unit U00003 - Emission Unit U-00003 is comprised of one state-of-the art new high pressure and low heat release boiler (Rentech Model D Watertube), rated at 212 MM BTU/hr (Emission Source S0003), firing #2 fuel oil (Process 005) or natural gas (Process 006), venting to existing stack (Emission Point 00003) for Emission Source ES004 in Emission Unit U-00005. The new boiler will be equipped with a low NOx burner and Flue Gas Recirculation - FGR (Emission Control C0003). Potential emissions of all criteria air pollutants will be significantly lower for the new boiler.

This is a replacement for the existing high pressure boiler (Emission Source ES004 in Emission Unit U-00003),



which is a Riley-Stoker Model OD-1, rated at 377 MM BTU/hr, firing #6 fuel oil or natural gas and is being de-commissioned due to excessive repair needs. The existing boiler, which was installed in 1968, is not operational and will be de-commissioned since repair costs are excessive. The existing boiler is rated at 377 MM BTU/hr and is permitted to burn #6 fuel oil or natural gas.

Emission unit U00003 is associated with the following emission points (EP):
00003

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

Process: 005 is located at GROUND FLOOR, Building PPLANT - Process 005 consists of the firing of # 2 fuel oil in the new state-of-the art new high pressure and low heat release boiler (Rentech Model D Watertube Boiler), rated at 212 MM BTU/hr (Emission Source HPB03 in Emission Unit U-00003), venting to existing stack (Emission Point 00003) for Emission Source HPC03 in Emission Unit U-00003. The new boiler will fire either low sulfur # 2 fuel oil (0.2% maximum by weight) or natural gas. The new boiler is rated at 206 MM BTU/hr with maximum firing rate of 1,490 gallons per hour. The new boiler will be equipped with a low NOx burner and Flue Gas Recirculation - FGR (Emission Control HPC03). Potential emissions of all criteria air pollutants will be significantly lower for the new boiler.

This is a replacement for the existing high pressure boiler (Emission Source ES004 in Emission Unit U-00005), which is a Riley-Stoker Model OD-1, rated at 377 MM BTU/hr, firing #6 fuel oil or natural gas and is being de-commissioned due to excessive repair needs. The existing boiler, which was installed in 1968, is not operational and will be de-commissioned since repair costs are excessive. The existing boiler is rated at 377 MM BTU/hr and is permitted to burn #6 fuel oil or natural gas.

Process: 006 is located at GROUND FLOOR, Building PPLANT - Process 006 consists of the firing of natural gas in the new state-of-the art new high pressure and low heat release boiler (Rentech Model D Watertube Boiler), rated at 212 MM BTU/hr (Emission Source HPB03 in Emission Unit U-00003), venting to existing stack (Emission Point 00003) for Emission Source HPC03 in Emission Unit U-00003. The new boiler will fire either low sulfur # 2 fuel oil (0.2% maximum by weight) or natural gas. The new boiler is rated at 212 mmbtu/hr with maximum firing rate of 206,000 cubic feet per hour. The new boiler will be equipped with a low NOx burner and Flue Gas Recirculation - FGR (Emission Control HPC03). Potential emissions of all criteria air pollutants will be significantly lower for the new boiler.

This is a replacement for the existing high pressure boiler (Emission Source ES004 in Emission Unit U-00005), which is a Riley-Stoker Model OD-1, rated at 377 MM BTU/hr, firing #6 fuel oil or natural gas and is being de-commissioned due to excessive repair needs. The existing boiler, which was installed in 1968, is not operational and will be de-commissioned since repair costs are excessive. The existing boiler is rated at 377 MM BTU/hr and is permitted to burn #6 fuel oil or natural gas.

Title V/Major Source Status

RIVERBAY CORP-CO-OP CITY is subject to Title V requirements. This determination is based on the following information:

The Riverbay Corp-Co-Op City is a major facility because the potential emissions of carbon monoxide, nitrogen oxides and volatile organic compounds are greater than the major source thresholds (100 tons/year for carbon monoxide, and 25 tons per year for both nitrogen oxides and volatile organic compounds).

Program Applicability

The following chart summarizes the applicability of RIVERBAY CORP-CO-OP CITY with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability



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

6513

Description

APARTMENT BUILDING OPERATORS

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

1-03-006-01

Description

EXTERNAL COMBUSTION BOILERS -
COMMERCIAL/INDUSTRIAL
COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS
Over 100 MMBtu/Hr

1-03-004-01

EXTERNAL COMBUSTION BOILERS -
COMMERCIAL/INDUSTRIAL
COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL OIL
Grade 6 Oil

2-04-003-03

INTERNAL COMBUSTION ENGINES - ENGINE TESTING
INTERNAL COMBUSTION ENGINE: ENGINE TESTING -



2-04-003-01
 TURBINE
 DISTILLATE OIL
 INTERNAL COMBUSTION ENGINES - ENGINE TESTING
 INTERNAL COMBUSTION ENGINE: ENGINE TESTING -
 TURBINE
 Natural Gas

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
007664-41-7	AMMONIA	pteyear	C
000630-08-0	CARBON MONOXIDE	pteyear	G
0NY100-00-0	HAP	pteyear	B
007439-92-1	LEAD	pteyear	Y
0NY210-00-0	OXIDES OF NITROGEN	pteyear	G
0NY075-00-0	PARTICULATES	pteyear	D
0NY075-00-5	PM-10	pteyear	D
007446-09-5	SULFUR DIOXIDE	pteyear	F
007664-93-9	SULFURIC ACID	pteyear	A
0NY998-00-0	VOC	pteyear	C

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.

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.

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.

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 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

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
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Permit Review Report

Permit ID: 2-6003-00038/00008

Renewal Number: 1

03/03/2008

FACILITY		249	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 52-A.21	27, 29, 32	Prevention of Significant Deterioration
FACILITY	40CFR 52-A.21 (j)	31, 33	Best Available Control Technology
U-00004/00004	40CFR 52-A.21 (j)	115, 116, 117, 118	Best Available Control Technology
U-00004/00004/007/GT004 Control	40CFR 52-A.21 (j)	131, 132, 133, 134, 135, 136	Best Available Technology
U-00004/00004/008/GT004 Control	40CFR 52-A.21 (j)	141, 142, 143, 144, 145, 146	Best Available Technology
U-00004/00004/009/GT004 Control	40CFR 52-A.21 (j)	152, 153, 154, 155, 156, 157	Best Available Technology
U-00004/00004/011/GTC04	40CFR 52-A.21 (j)	160, 161, 162	Best Available Control Technology
U-00004/00004/P10/GT004 Control	40CFR 52-A.21 (j)	170, 171, 172, 173, 174, 175	Best Available Technology
U-00006/00006	40CFR 52-A.21 (j)	188, 189, 190	Best Available Control Technology
U-00006/00006/012/GT006 Control	40CFR 52-A.21 (j)	202, 203, 204, 205, 206, 207	Best Available Technology
U-00006/00006/013/GT006 Control	40CFR 52-A.21 (j)	214, 215, 216, 217, 218, 219	Best Available Technology
U-00006/00006/014/GT006 Control	40CFR 52-A.21 (j)	225, 226, 227, 228, 229, 230	Best Available Technology
U-00006/00006/015/GT006 Control	40CFR 52-A.21 (j)	236, 237, 238, 239, 240, 241	Best Available Technology
U-00006/00006/016/GTC06	40CFR 52-A.21 (j)	244, 245, 246	Best Available Control Technology
U-00003/00003/005/HPB03	40CFR 60-A.8	82	General provisions - Performance tests
U-00003/00003/006/HPB03	40CFR 60-A.8	99	General provisions - Performance tests
U-00003/00003/005/HPB03	40CFR 60-Db.42b(j)	83	Exemption from Standards for Sulfur Dioxide.
U-00003/00003/005/HPB03	40CFR 60-Db.43b(b)	84	Standard for Particulate Matter Firing Oil.
U-00003/00003/005/HPB03	40CFR 60-Db.43b(f)	85	Standard for Particulate Matter Opacity.
U-00003/00003/006/HPB03	40CFR 60-Db.43b(f)	100	Standard for Particulate Matter Opacity.
U-00003/00003/005/HPB03	40CFR 60-Db.44b(a) (1)	86, 87	Standard for Nitrogen Oxides Firing Natural Gas and Distillate Oil. (see narrative)
U-00003/00003/005/HPB03	40CFR 60-Db.45b(j)	88	Compliance and Performance Test Methods and Procedures for Sulfur Dioxide.
U-00003/00003/005/HPB03	40CFR 60-Db.46b(e)	89	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.
U-00003/00003/006/HPB03	40CFR 60-Db.46b(e)	101	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.
U-00003/00003/005/HPB03	40CFR 60-Db.47b(f)	90	Exemption from Emission Monitoring for Sulfur Dioxide.
U-00003/00003/005/HPB03	40CFR 60-Db.48b(b)	91	Emission Monitoring for



Permit Review Report

Permit ID: 2-6003-00038/00008

Renewal Number: 1

03/03/2008

U-00003/00003/006/HPB03	40CFR 60-Db.48b(b)	102	Particulate Matter and Nitrogen Oxides. Emission Monitoring for Particulate Matter and Nitrogen Oxides.
U-00003/00003/006/HPB03	40CFR 60-Db.49b	103	Reporting and Recordkeeping Requirements.
U-00003/00003/005/HPB03	40CFR 60-Db.49b(a)	92	Reporting and Recordkeeping Requirements.
U-00004/00004/011/GTC04	40CFR 60-Dc.43c(e)	163	Standard for Particulate Matter.
U-00006/00006/016/GTC06	40CFR 60-Dc.43c(e)	247	Standard for Particulate Matter.
U-00004/00004/011/GTC04	40CFR 60-Dc.47c(c)	164	Emissions monitoring for particulate matter
U-00006/00006/016/GTC06	40CFR 60-Dc.47c(c)	248	Emissions monitoring for particulate matter
U-00004/00004	40CFR 60-GG.334(b)	119	Monitoring of Operations: CEMS
U-00006/00006	40CFR 60-GG.334(b)	191	Monitoring of Operations: CEMS
U-00004/00004	40CFR 60-GG.334(c)	120	CEMS for turbines without water or steam injection
U-00006/00006	40CFR 60-GG.334(c)	192	CEMS for turbines without water or steam injection
U-00004/00004	40CFR 60-GG.334(c)(1)	121, 122, 123	
U-00006/00006	40CFR 60-GG.334(c)(1)	193, 194, 195	
U-00004/00004	40CFR 60-GG.334(h)(3)	124	Allowance not to monitor sulfur or nitrogen for natural gas
U-00006/00006	40CFR 60-GG.334(h)(3)	196	Allowance not to monitor sulfur or nitrogen for natural gas
U-00004/00004	40CFR 60-GG.334(i)(1)	125	Frequency of Monitoring - Fuel Oil
U-00006/00006	40CFR 60-GG.334(i)(1)	197	Frequency of Monitoring - Fuel Oil
FACILITY	40CFR 68	21	Chemical accident prevention provisions
FACILITY	40CFR 72-A.9	47	
FACILITY	40CFR 75-B.11(d)	48	Continuous emission monitoring - specific provisions for monitoring SO2 emissions gas-fired units and oil-fired units
FACILITY	40CFR 75-C.20	49	CEM operation and maintenance requirements - certification and recertification procedures
FACILITY	40CFR 82-F	22	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	
FACILITY	6NYCRR 201-1.4	250	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility



Permit Review Report

Permit ID: 2-6003-00038/00008

Renewal Number: 1

03/03/2008

FACILITY	6NYCRR 201-6	23, 50, 51	Title V Permits and the Associated Permit Conditions
U-00003/00003/005/HPB03	6NYCRR 201-6	74, 75	Title V Permits and the Associated Permit Conditions
U-00003/00003/006/HPB03	6NYCRR 201-6	93	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (4)	15	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (a) (7)	2	
FACILITY	6NYCRR 201-6.5 (a) (8)	16	
FACILITY	6NYCRR 201-6.5 (c)	3	
FACILITY	6NYCRR 201-6.5 (c) (2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (c) (3)	24	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (c) (3) (ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	17	Emissions Caps Federally Enforceable Emissions Caps Federally Enforceable Emissions Caps
FACILITY	6NYCRR 201-6.5 (e)	6	
FACILITY	6NYCRR 201-6.5 (f) (6)	18	
FACILITY	6NYCRR 201-6.5 (g)	25	
FACILITY Federally Enforceable	6NYCRR 201-7	26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 52	
U-00003/00003/005/HPB03	6NYCRR 201-7	74, 75	Emissions Caps Federally Enforceable
U-00003/00003/006/HPB03	6NYCRR 201-7	93	Emissions Caps Federally Enforceable
FACILITY	6NYCRR 202-1.1	19	Emission Statements - Applicability Emission Statements - record keeping requirements.
FACILITY	6NYCRR 202-1.2	36	
FACILITY	6NYCRR 202-1.3	37	
FACILITY	6NYCRR 202-2	38	
FACILITY	6NYCRR 202-2.1	7	
FACILITY	6NYCRR 202-2.5	8	NOx Budget Trading Program General Provisions
FACILITY	6NYCRR 204-1	39	Compliance Certification Report
FACILITY	6NYCRR 204-4.1	40	General Prohibitions - air pollution prohibited.
FACILITY	6NYCRR 204-8.1	41	
FACILITY	6NYCRR 211.2	251	General Prohibitions - visible emissions limited
FACILITY	6NYCRR 211.3	20	
U-00004/00004	6NYCRR 211.3	104	General Prohibitions - visible emissions limited
U-00006/00006	6NYCRR 211.3	176	General Prohibitions - visible emissions limited
FACILITY	6NYCRR 215	9	Sulfur in Fuel Limitations.
U-00001/00001/001/00001	6NYCRR 225-1.2 (a)	59	
U-00002/00002/003/00002	6NYCRR 225-1.2 (a)	69	Sulfur in Fuel Limitations.
FACILITY	6NYCRR 225-1.2 (a) (2)	42	Sulfur in Fuel Limitations Post



Permit Review Report

Permit ID: 2-6003-00038/00008

Renewal Number: 1

03/03/2008

U-00004/00004	6NYCRR 225-1.7	105	12/31/87. Emission and fuel monitoring.
U-00006/00006	6NYCRR 225-1.7	177	Emission and fuel monitoring.
U-00003/00003/005/HPB03	6NYCRR 227.2 (b) (1)	81	
U-00001/00001/001/00001	6NYCRR 227-1.2 (a) (1)	60	Particulate Emissions from Liquid Fuels.
U-00002/00002/003/00002	6NYCRR 227-1.2 (a) (1)	70	Particulate Emissions from Liquid Fuels.
U-00004/00004	6NYCRR 227-1.2 (a) (2)	252, 253	Particulate Emissions Firing Liquid Fuels Excluding Distillate Oil. (see narrative)
U-00006/00006	6NYCRR 227-1.2 (a) (2)	254, 255	Particulate Emissions Firing Liquid Fuels Excluding Distillate Oil. (see narrative)
FACILITY	6NYCRR 227-1.3	43	Smoke Emission Limitations.
U-00001/00001	6NYCRR 227-1.3 (a)	53	Smoke Emission Limitations.
U-00002/00002	6NYCRR 227-1.3 (a)	63	Smoke Emission Limitations.
U-00003/00003	6NYCRR 227-1.3 (a)	73	Smoke Emission Limitations.
U-00004/00004	6NYCRR 227-1.3 (a)	106, 107	Smoke Emission Limitations.
U-00006/00006	6NYCRR 227-1.3 (a)	178, 179	Smoke Emission Limitations.
U-00004/00004	6NYCRR 227-1.3 (b)	108, 109	
U-00006/00006	6NYCRR 227-1.3 (b)	180, 181	
U-00001/00001	6NYCRR 227-1.4 (b)	54	
U-00002/00002	6NYCRR 227-1.4 (b)	64	
U-00001/00001/001/00001	6NYCRR 227-2	61	Reasonably available control technology for NOx
U-00001/00001/002/00001	6NYCRR 227-2	62	Reasonably available control technology for NOx
U-00002/00002/003/00002	6NYCRR 227-2	71	Reasonably available control technology for NOx
U-00002/00002/004/00002	6NYCRR 227-2	72	Reasonably available control technology for NOx
FACILITY	6NYCRR 227-2.4 (a)	44, 45	Control requirements for very large boilers.
U-00001/00001	6NYCRR 227-2.4 (a)	55, 56	Control requirements for very large boilers.
U-00002/00002	6NYCRR 227-2.4 (a)	65, 66	Control requirements for very large boilers.
U-00003/00003/005/HPB03	6NYCRR 227-2.4 (b)	76	Control Requirements for large boilers.
U-00003/00003/006/HPB03	6NYCRR 227-2.4 (b)	94	Control Requirements for large boilers.
U-00003/00003/005/HPB03	6NYCRR 227-2.4 (b) (1)	77	Control Requirements for large boilers which are not case by case.
U-00003/00003/006/HPB03	6NYCRR 227-2.4 (b) (1)	95	Control Requirements for large boilers which are not case by case.
U-00004/00004/011/GTC04	6NYCRR 227-2.4 (c) (1)	158	Control Requirements for mid-sized boilers which utilize approved technology.
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Permit ID: 2-6003-00038/00008

Renewal Number: 1

03/03/2008

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U-00006/00006/015/GT006	6NYCRR	227-2.4 (e) (2) (i)	231	RACT requirements for gas fired combined cycle combustion turbines.
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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.

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.

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)

This regulation specifies that the permit incorporate all reporting requirements associated with an applicable federal rule, the submittal of any required monitoring reports at least every 6 months, and the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

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

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

6NYCRR 201-6.5(d)(5)

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

6NYCRR Part 201-6.5(e)

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

6NYCRR 201-6.5(f)(6)

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

6NYCRR Part 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 their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

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

Facility Specific Requirements

In addition to Title V, RIVERBAY CORP-CO-OP CITY has been determined to be subject to the following regulations:

40CFR 52-A.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions; ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40CFR 52-A.21 (j)

BACT determinations are made on a case-by-case basis and can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination will have to be entered into the special permit conditions, separately by the permit reviewer.

40CFR 60-A.8



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

40CFR 60-Db.42b (j)

This subdivision contains an exemption from the percent reduction requirements if the affected facility fires very low sulfur content oil.

40CFR 60-Db.43b (b)

This regulation is for the Particulate matter standard. The regulation specifies maximum allowable Particulate matter emissions oil or oil and other fuels of 0.10 lb/mmBtu for affected sources.

40CFR 60-Db.43b (f)

This regulation specifies maximum allowable opacity for affected affected sources. The opacity of the emission may not exceed 20%, except for one six minute period when the maximum opacity may not exceed 27%.

40CFR 60-Db.44b (a) (1)

These standards apply to all boilers firing natural gas and/or distillate oil except as provided in 40 CFR 60.44b(a)(4) Duct Burners Used in a Combined Cycle System.

40CFR 60-Db.45b (j)

This regulation specifies that owner or operators that combust very low sulfur oil are not subject to compliance and performance testing requirements for Sulfur Dioxide if they obtain fuel receipts as described in 40 CFR 60.49b(r)

40CFR 60-Db.46b (e)

This regulation specifies compliance and performance test methods and procedures for particulate matter and nitrogen oxides.

40CFR 60-Db.47b (f)

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

40CFR 60-Db.48b (b)

This regulation requires the owner or operator of the facility to install and operate a continuous emissions monitor to monitor emissions of oxides of nitrogen from the facility.

40CFR 60-Db.49b

This rule specifies the reporting and recordkeeping requirements for affected steam generating units.

40CFR 60-Db.49b (a)

This subdivision requires reporting and recordkeeping for affected steam generating units - initial notification.

40CFR 60-Dc.43c (e)

This section sets limits on particulate matter emissions from ICI boilers constructed, reconstructed, or modified on or after 02/28/05.

40CFR 60-Dc.47c (c)

This regulation states that affected facilities that burn only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.06 lb/MMBtu) heat input or less and that do not use a



post-combustion technology to reduce SO₂ or PM emissions are not required to operate a CEMS for measuring opacity if they follow the applicable procedures under §60.48c(f).

40CFR 60-GG.334 (b)

This regulation allows the owner/operator of a gas turbine to use a CEMS to monitor NO_x emissions instead of monitoring fuel and water/steam usage.

40CFR 60-GG.334 (c)

This regulation allows the owner or operator of a gas turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which does not use steam or water injection to control NO_x emissions, for purposes of determining excess emissions, use a CEMS that meets the requirements of paragraph (b) of 40 CFR 60.334.

40CFR 60-GG.334 (c) (1)

This regulation requires the owner or operator of a gas turbine to report any excess emissions of oxides of nitrogen (NO_x) on a quarterly basis.

40CFR 60-GG.334 (h) (3)

This regulation allows the owner or operator of a gas turbine to not monitor the fuel for sulfur or nitrogen content if the fuel meets the 40 CFR 60.331(u) definition of natural gas.

40CFR 60-GG.334 (i) (1)

This regulation specifies the frequency of monitoring the sulfur and nitrogen content of the fuel burned in a gas turbine. The owner or operator must sample the fuel oil based on the requirements of 40 CFR Part 75, Appendix D.

40CFR 72-A.9

A designated representative of each source of air contamination affected by the acid rain program must submit a complete Acid Rain permit application (including a compliance plan) in accordance with the deadlines specified in § 72.30;

40CFR 75-B.11 (d)

This section deals with the measurements of SO₂ in gas-fired and oil-fired systems only. It specifies requirements in addition to the general operating requirements in § 75.10 and provides for alternative methods for estimating hourly SO₂ mass emissions.

40CFR 75-C.20

This section requires the facility to ensure that each emission or opacity monitoring system, including automated data acquisition and handling systems, meet the initial certification requirements of this section. It requires that all applicable initial certification tests are completed by the deadlines specified in § 75.4 and prior to use in the Acid Rain Program.

6NYCRR 201-7

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

1. The natural gas consumption for Boilers 00001 & 00002 combined cannot exceed 1,040 million gallons per year.
2. The # 6 fuel oil consumption for Boilers 00001 & 00002 combined cannot exceed 1.3 million gallons per



year.

3. The # 2 fuel oil consumption for Boiler HPB03 cannot exceed 2.5 million gallons per year.
4. The total operating hours of operation for Combustion Turbines GT004 & GT006 combined cannot exceed 3,460 hours per year at any load for # 2 fuel oil after acceptance by the Administrator of stack testing proving PM-10/Particulates emissions. Prior to the approval of the Particulates/PM-10 emissions stack test, the hours of operation are limited to 720 per year. This includes Processes 007 & 012 and 008 & 013.
5. The total operating hours of operation for Combustion Turbines GT004 & GT006 combined cannot exceed 1,730 hours per year at 70 % load on # 2 fuel oil and natural gas combined after acceptance by the Administrator of stack testing proving PM-10/Particulates emissions. Prior to the approval of the Particulates/PM-10 emissions stack test, the hours of operation are limited to 300 per year. This includes Processes 008 & 013.
6. The total operating hours of operation for Combustion Turbines GT004 & GT006 combined cannot exceed 14,000 hours per year at all loads for # 2 fuel oil and natural gas before and after acceptance by the Administrator of stack testing proving PM-10/Particulates emissions. This includes Processes 007 & 012, 008 & 013, 009 & 014, and P10 & 015.
7. The total operating hours of operation for Combustion Turbines GT004 & GT006 combined cannot exceed 7,000 hours per year at 70 % load for # 2 fuel oil and natural gas after the acceptance by the Administrator of stack testing proving PM-10/Particulates emissions. Prior to the approval of the Particulates/PM-10 emissions stack test, the hours of operation are limited to 5,820 per year. This includes Processes 008 & 013 and P10 & 015.
8. The natural gas consumption for Combustion Turbines GT004 & GT006 combined cannot exceed 320 million cubic feet per year prior to the approval of the Particulates/PM-10 emissions stack test and after the acceptance by the Administrator of stack testing proving PM-10/Particulates emissions.

6NYCRR 202-1.2

This regulation specifies that the department is to be notified at least 30 days in advance of any required stack test. The notification is to include a list of the procedures to be used that are acceptable to the department. Finally, free access to observe the stack test is to be provided to the department's representative.

6NYCRR 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may be also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6NYCRR 202-2

This subpart of Part 202 sets forth the general requirements for submitting an annual statement or emissions.

6NYCRR 204-1

This regulation specifies the NOx Budget Trading Program General Provisions.

6NYCRR 204-4.1

This condition covers the compliance certification report requirements for the NOx Budget Program.

6NYCRR 204-8.1



This condition lists the general requirements for the NO_x Budget trading program. They include, but are not limited to monitoring requirements, certification, record keeping and reporting.

6NYCRR 225-1.2 (a)

This regulation sets the limits for sulfur in fuel being burned at stationary sources in New York State with a heat input greater than 250 million BTU per hour. The limits are: for oil - from 0.20% [in NYC] to 1.50% by weight; for solid fuel - from 0.20 [in NYC] to 2.5 pounds of sulfur per million BTU. This limit applies to facilities that submitted permit applications after March 15, 1973 and are not located in New York City, Nassau, Rockland or Westchester counties.

6NYCRR 225-1.2 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

6NYCRR 225-1.7

This regulation requires the use of continuous emissions monitors to monitor the emissions of sulfur dioxide. This applies to facilities with a total heat input greater than 250 million BTU per hour, are equipped with approved sulfur dioxide control equipment and are subject to the sulfur dioxide equivalent emission rate pursuant to 6 NYCRR Part 225-1.5(a).

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 227-1.2 (a) (1)

This regulation establishes a particulate emission limit in terms of lbs per mmBtu of heat input for stationary combustion units of greater than 250 mmBtu/hr heat input capacity which fire coal, oil, or coal derived fuels.

6NYCRR 227-1.2 (a) (2)

This rule limits particulate emissions to 0.20 pound per million Btu heat input from any stationary combustion installation with a maximum heat input capacity exceeding 50 million Btu per hour but no greater than 250 million Btu per hour using oil (other than distillate oil), coal tar, or any liquid fuel derived from coal.

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 227-1.3 (b)

This regulation may exempt any person from operating a stationary combustion installation which emits smoke exceeding the opacity limits from periods of start up and emergency if it shown that the exceedences were not preventable.

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

This regulation limits the emission of oxides of nitrogen (NO_x) from stationary combustion installations (boilers,



combustion turbines and internal combustion engines).

6NYCRR 227-2.4 (a)

This condition lists the emission limitations for very large boilers.

6NYCRR 227-2.4 (b)

This paragraph provides a table for gas only, gas and/or oil firing capable, pulverized coal, and overfeed stoker emission limits. Compliance is determined by a stack test.

6NYCRR 227-2.4 (b) (1)

This paragraph provides a table for gas only, gas and/or oil firing capable, pulverized coal, and overfeed stoker emission limits. Compliance is determined by a stack test.

6NYCRR 227-2.4 (c) (1)

This regulation specifies control requirements for midsize boilers which utilize approved technology.

6NYCRR 227-2.4 (e) (2) (i)

This regulation specifies the RACT emission limitations for combined cycle combustion turbines when firing gas. The NO_x emission limit is 42 ppmvd corrected to 15 percent oxygen, when firing gas. For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing.

6NYCRR 227-2.4 (e) (2) (ii)

This regulation specifies the RACT emission limitations for combined cycle combustion turbines when firing oil. The NO_x emission limit is 65 ppmvd corrected to 15 percent oxygen, when firing oil. For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing.

6NYCRR 227-2.6 (a) (1)

This regulation establishes the monitoring requirements for NO_x RACT affected very large boilers (boilers with a heat input of greater than 250 mmBtu/hr).

6NYCRR 227-2.6 (a) (3)

This regulation requires the owner/operator of large boilers to measure NO_x emissions by performing stack tests described in 6 NYCRR Part 227-2.6(c). However, the permit requires installation of continuous emissions monitoring system (CEMS) as described in 6 NYCRR Part 227-2.6(b) for compliance monitoring.

6NYCRR 227-2.6 (b)

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NO_x and either is required or opts to employ a continuous emissions monitoring system (CEMS) must:

- 1) Submit a CEMS monitoring plan for approval by the Department,
- 2) Submit a CEMS certification protocol,
- 3) Meet CEMS monitoring requirements as detailed in this paragraph of this subdivision, and
- 4) Meet CEMS recordkeeping and reporting requirements as detailed in this paragraph of this subdivision.

6NYCRR 227-2.6 (b) (3)

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NO_x and either is required or opts to employ a continuous emissions monitoring system (CEMS) must:



- 1) Submit a CEMS monitoring plan for approval by the Department,
- 2) Submit a CEMS certification protocol,
- 3) Meet CEMS monitoring requirements as detailed in this paragraph of this subdivision, and
- 4) Meet CEMS recordkeeping and reporting requirements as detailed in this paragraph of this subdivision.

6NYCRR 227-2.6 (b) (3) (i)

This rule specifies the data averaging requirements for continuous emissions monitors (CEM) of oxides of nitrogen (NOx) for sources subject to this requirement.

6NYCRR 227-2.6 (c)

This regulation is a SIP regulation. This citation is for stack test requirements. The owner or operator of the facility is required to test for NOx emission and follow monitoring and reporting requirements. The stack testing for NOx emission requires the facility to:

- (1) Submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and
- (2) Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title.
 - (i) For large and mid-size boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
 - (ii) For simple cycle combustion turbines, utilize Method 20 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
 - (iii) For combined cycle combustion turbines, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
 - (iv) For internal combustion engines, utilize Method 7, 7E or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.

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 addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

6NYCRR 231-2.7 (b)

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.

Pursuant to section 231-2.7, existing major facilities may avoid the requirements of Subpart 231-2 by conducting a netting analysis. This is done by utilizing the following equation:



$$\text{NEI} = \text{PEP} + \text{CEI} - \text{ERCs}$$

where:

NEI = net emission increase

PEP = project emission potential for the proposed source project

CEI = creditable emission increases

ERCs = emission reduction credits

All of the creditable emission increases and emission reduction credits must have occurred at the facility for which the netting analysis is being conducted and must have occurred during the contemporaneous period for the proposed project. If the net emission increase is less than the threshold values incorporated into sections 231-2.12 and 231-2.13, then the the proposed source project is not subject to the requirements of Subpart 231-2.

Non Applicability Analysis

List of non-applicable rules and regulations:

Location Facility/EU/EP/Process/ES	Regulation	Short Description
U-00001	40CFR 52-A	Prevention of Significant Deterioration
Reason: The existing boilers are not subject to PSD regulations 40 CFR 52. To obtain internal emission offsets for PM, PM-10, CO and SO ₂ , however, limitations will be taken in this permit to limit the emissions by restricting the amount of # 6 fuel oil and natural gas which can be used in the boilers. The total amount of # 6 fuel oil consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1.3 MM gallons/year. The amount of natural gas consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1,040 MM CF/year, reduced by 370 cubic feet per gallon of oil burned.		
U-00002	40CFR 52-A	Prevention of Significant Deterioration
Reason: The existing boilers are not subject to PSD regulations 40 CFR 52. To obtain internal emission offsets for PM, PM-10, CO and SO ₂ , however, limitations will be taken in this permit to limit the emissions by restricting the amount of # 6 fuel oil and natural gas which can be used in the boilers. The total amount of # 6 fuel oil consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1.3 MM gallons/year. The amount of natural gas consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1,040 MM CF/year, reduced by 370 cubic feet per gallon of oil burned.		
U-00004	40CFR 52-A	Prevention of Significant Deterioration
Reason: The Total Potential Emissions increase from the installation of both combustion gas turbine units (U-00004 and U-00006) will not exceed the allowable increments for non-attainment pollutants CO, PM, PM-10, SO ₂ and all other listed PSD applicable pollutants as contained in 40 CFR 52, including operating limitations on the gas turbine operation and credit for internal offsets from operating limitations on boiler emission units U-00001, U-00002, and U-00003. Detailed calculations were submitted with the Title V renewal application in supplementary document SD-9.		
U-00006	40CFR 52-A	Prevention of Significant Deterioration
Reason: The Total Potential Emissions increase from the installation of both combustion gas turbine units (U-00004 and U-00006) will not exceed the allowable increments for non-attainment pollutants CO, PM, PM-10, SO ₂ and all other listed PSD applicable pollutants as contained in 40 CFR 52, including operating limitations on the gas turbine operation and credit for internal offsets from operating limitations on boiler emission units U-00001, U-00002, and U-00003.		



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Detailed calculations were submitted with the Title V renewal application in supplementary document SD-9.

U-00003 40CFR 52-A.21 Prevention of Significant Deterioration

Reason: The new high pressure & low release rate boiler to be installed is a replacement of an emission source with similar equipment using the same emission stack, with lower input heat rating 212 MM BTU/hr vs. 377 MM BTU/hr), and a decrease in the Maximum Annual Potential (MAP) emissions of all pollutants compared to the existing boiler. Therefore, the projected actual annual emissions of the new boiler are less than the baseline actual emissions of the existing boiler and, therefore, are not subject to PSD regulations in accordance with 40 CFR 52.21 (a) (2) (iv) (c).

The replacement HP boiler is not subject to PSD regulations 40 CFR 52. To obtain internal emission offsets for PM, PM-10, CO and SO2, however, limitations will be taken in this permit to limit the emissions by restricting the amount of # 2 fuel oil and natural gas which can be used in the boiler. The total amount of # 2 fuel oil consumption in Emission Unit U-00003 will not exceed 2.5 MM gallons/year. The amount of natural gas consumption in Emission Unit U-00003 will not exceed 1,800 MM CF/year, reduced by 320 cubic feet per gallon of oil burned.

U-00004 40CFR 60-Dc.42c Standard for Sulfur Dioxide

Reason: The Duct Burners (Emission Sources GT004 & GTC04) are only natural gas fired and, as a result, are not subject to any regulation on Sulfur Dioxide emissions in 40 CFR 60 Subpart Dc, or testing, monitoring, and reporting requirements in 40 CFR 60.44c and 40 CFR 60.46c, or 40 CFR 60.48c.

U-00006 40CFR 60-Dc.42c Standard for Sulfur Dioxide

Reason: The Duct Burners (Emission Sources GT006 & GTC06) are only natural gas fired and, as a result, are not subject to any regulation on Sulfur Dioxide emissions in 40 CFR 60 Subpart Dc, or testing, monitoring, and reporting requirements in 40 CFR 60.44c and 40 CFR 60.46c, or 40 CFR 60.48c.

U-00004 40CFR 63-YYY Combustion Turbine NESHAP

Reason: The facility Potential Emissions of all combined Hazardous Air Pollutant (HAP) Emissions before and following the installation of both combustion gas turbine units (U-00004 and U-00006) will not exceed 25 Tons per year, and the Potential Emissions of any individual (speciated) HAP will not exceed 10 Tons/year. As a result, the facility is not a Major Source of HAPs emissions, and is not subject to 40 CFR 63, Subpart YYY for gas turbines.

U-00006 40CFR 63-YYY Combustion Turbine NESHAP

Reason: The facility Potential Emissions of all combined Hazardous Air Pollutant (HAP) Emissions before and following the installation of both combustion gas turbine units (U-00004 and U-00006) will not exceed 25 Tons per year, and the Potential Emissions of any individual (speciated) HAP will not exceed 10 Tons/year. As a result, the facility is not a Major Source of HAPs emissions, and is not subject to 40 CFR 63, Subpart YYY for gas turbines.

U-00001 6NYCRR 231-2 New Source Review in Nonattainment Areas and Ozone Transport Region

Reason: The existing boilers are not subject to NSR regulations 6 NYCRR 231. To obtain internal emission offsets for NOx and VOC, however, limitations will be taken in this permit to limit the emissions by restricting the amount of # 6 fuel oil and natural gas which can be used in the boilers. The total amount of # 6 fuel oil consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1.3 MM gallons/year. The amount of natural gas consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1,040 MM CF/year, reduced by 370 cubic feet per gallon of oil burned.

U-00002 6NYCRR 231-2 New Source Review in Nonattainment Areas and Ozone Transport Region

Reason: The existing boilers are not subject to NSR regulations 6 NYCRR 231. To obtain internal emission offsets for NOx and VOC, however, limitations will be taken in this permit to limit the emissions by restricting the amount of # 6 fuel oil and natural gas which can be used in the boilers. The total amount of # 6 fuel oil consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not exceed 1.3 MM gallons/year. The amount of natural gas consumption in Emission Unit U-00001 and Emission Unit U-00002 combined will not



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exceed 1,040 MM CF/year, reduced by 370 cubic feet per gallon of oil burned.
 U-00003 6NYCRR 231-2 New Source Review in Nonattainment Areas and Ozone Transport Region

Reason: Since this facility is located in a severe ozone non-attainment area and ozone transport region, the only non-attainment contaminants to be reviewed for Part 231 are NOx and VOC. The new high pressure & low release rate boiler to be installed is a replacement of an emission source with similar equipment using the same emission stack, with lower input heat rating (212 MM BTU/hr vs. 377 MM BTU/hr), and a decrease in the Maximum Annual Potential (MAP) emissions of all pollutants compared to the existing boiler. Therefore, the projected actual annual emissions of the new boiler are less than the baseline actual emissions of the existing boiler and, therefore, the new emission source is not subject to Part 231 New Source Review for either NOx or VOC in accordance with 6 NYCRR 231-2.2(d)(6) exemptions and 6 NYCRR 231-2.1(b)(40) definitions of a source project.

The replacement HP boiler is not subject to NSR regulations 6 NYCRR 231-2. To obtain internal emission offsets for NOx and VOC, however, limitations will be taken in this permit to limit the emissions by restricting the amount of # 2 fuel oil and natural gas which can be used in the boiler. The total amount of # 2 fuel oil consumption in Emission Unit U-00003 will not exceed 2.5 MM gallons/year. The amount of natural gas consumption in Emission Unit U-00003 will not exceed 1,800 MM CF/year, reduced by 320 cubic feet per gallon of oil burned.
 U-00004 6NYCRR 231-2 New Source Review in Nonattainment Areas and Ozone Transport Region

Reason: The Total Potential Emissions increase from the installation of both combustion gas turbine units (U-00004 and U-00006) will not exceed the allowable increments for non-attainment pollutants NOx and VOC as contained in 6 NYCRR 231-2.12 Table 2, including operating limitations on the gas turbine operation and credit for internal offsets from operating limitations on boiler emission units U-00001, U-00002, and U-00003. Detailed calculations were submitted with the Title V renewal application in supplementary document SD-9.
 U-00006 6NYCRR 231-2 New Source Review in Nonattainment Areas and Ozone Transport Region

Reason: The Total Potential Emissions increase from the installation of both combustion gas turbine units (U-00004 and U-00006) will not exceed the allowable increments for non-attainment pollutants NOx and VOC as contained in 6 NYCRR 231-2.12 Table 2, including operating limitations on the gas turbine operation and credit for internal offsets from operating limitations on boiler emission units U-00001, U-00002, and U-00003. Detailed calculations were submitted with the Title V renewal application in supplementary document SD-9.

NOTE: Non-applicability determinations are cited as a permit condition under 6 NYCRR Part 201-6.5(g). This information is optional and provided only if the applicant is seeking to obtain formal confirmation, within an issued Title V permit, that specified activities are not subject to the listed federal applicable or state only requirement. The applicant is seeking to obtain verification that a requirement does not apply for the stated reason(s) and the Department has agreed to include the non-applicability determination in the issued Title V permit which in turn provides a shield against any potential enforcement action.

Compliance Certification

Summary of monitoring activities at RIVERBAY CORP-CO-OP CITY:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
U-00004/00004	115	work practice involving specific operations
U-00004/00004	116	work practice involving specific operations
U-00004/00004	117	work practice involving specific operations



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U-00004/00004	118	work practice involving specific operations
U-00004/00004/007/GT004	131	intermittent emission testing
U-00004/00004/007/GT004	132	intermittent emission testing
U-00004/00004/007/GT004	133	monitoring of process or control device parameters as surrogate
U-00004/00004/007/GT004	134	intermittent emission testing
U-00004/00004/007/GT004	135	intermittent emission testing
U-00004/00004/007/GT004	136	continuous emission monitoring (cem)
U-00004/00004/008/GT004	141	work practice involving specific operations
U-00004/00004/008/GT004	142	intermittent emission testing
U-00004/00004/008/GT004	143	intermittent emission testing
U-00004/00004/008/GT004	144	intermittent emission testing
U-00004/00004/008/GT004	145	intermittent emission testing
U-00004/00004/008/GT004	146	continuous emission monitoring (cem)
U-00004/00004/009/GT004	152	intermittent emission testing
U-00004/00004/009/GT004	153	intermittent emission testing
U-00004/00004/009/GT004	154	intermittent emission testing
U-00004/00004/009/GT004	155	intermittent emission testing
U-00004/00004/009/GT004	156	continuous emission monitoring (cem)
U-00004/00004/009/GT004	157	work practice involving specific operations
U-00004/00004/011/GTC04	160	intermittent emission testing
U-00004/00004/011/GTC04	161	intermittent emission testing
U-00004/00004/011/GTC04	162	continuous emission monitoring (cem)
U-00004/00004/P10/GT004	170	intermittent emission testing
U-00004/00004/P10/GT004	171	intermittent emission testing
U-00004/00004/P10/GT004	172	intermittent emission testing
U-00004/00004/P10/GT004	173	intermittent emission testing
U-00004/00004/P10/GT004	174	monitoring of process or control device parameters as surrogate
U-00004/00004/P10/GT004	175	continuous emission monitoring (cem)
U-00006/00006	188	work practice involving specific operations
U-00006/00006	189	work practice involving specific operations
U-00006/00006	190	work practice involving specific operations
U-00006/00006/012/GT006	202	intermittent emission testing
U-00006/00006/012/GT006	203	work practice involving specific operations
U-00006/00006/012/GT006	204	intermittent emission testing
U-00006/00006/012/GT006	205	intermittent emission testing
U-00006/00006/012/GT006	206	intermittent emission testing
U-00006/00006/012/GT006	207	continuous emission monitoring (cem)
U-00006/00006/013/GT006	214	work practice involving specific operations
U-00006/00006/013/GT006	215	intermittent emission testing
U-00006/00006/013/GT006	216	intermittent emission testing
U-00006/00006/013/GT006	217	intermittent emission testing
U-00006/00006/013/GT006	218	intermittent emission testing
U-00006/00006/013/GT006	219	continuous emission monitoring (cem)
U-00006/00006/014/GT006	225	work practice involving specific operations
U-00006/00006/014/GT006	226	intermittent emission testing
U-00006/00006/014/GT006	227	intermittent emission testing
U-00006/00006/014/GT006	228	intermittent emission testing
U-00006/00006/014/GT006	229	intermittent emission testing
U-00006/00006/014/GT006	230	continuous emission monitoring (cem)
U-00006/00006/015/GT006	236	monitoring of process or control device parameters as surrogate



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U-00006/00006/015/GT006	237	intermittent emission testing
U-00006/00006/015/GT006	238	intermittent emission testing
U-00006/00006/015/GT006	239	intermittent emission testing
U-00006/00006/015/GT006	240	intermittent emission testing
U-00006/00006/015/GT006	241	continuous emission monitoring (cem)
U-00006/00006/016/GTC06	244	intermittent emission testing
U-00006/00006/016/GTC06	245	intermittent emission testing
U-00006/00006/016/GTC06	246	continuous emission monitoring (cem)
U-00003/00003/005/HPB03	82	record keeping/maintenance procedures
U-00003/00003/006/HPB03	99	record keeping/maintenance procedures
U-00003/00003/005/HPB03	83	work practice involving specific operations
U-00003/00003/005/HPB03	84	intermittent emission testing
U-00003/00003/005/HPB03	85	continuous emission monitoring (cem)
U-00003/00003/006/HPB03	100	continuous emission monitoring (cem)
U-00003/00003/005/HPB03	86	continuous emission monitoring (cem)
U-00003/00003/005/HPB03	87	work practice involving specific operations
U-00003/00003/005/HPB03	88	record keeping/maintenance procedures
U-00003/00003/005/HPB03	89	continuous emission monitoring (cem)
U-00003/00003/006/HPB03	101	continuous emission monitoring (cem)
U-00003/00003/005/HPB03	90	work practice involving specific operations
U-00003/00003/005/HPB03	91	continuous emission monitoring (cem)
U-00003/00003/006/HPB03	102	continuous emission monitoring (cem)
U-00003/00003/006/HPB03	103	record keeping/maintenance procedures
U-00003/00003/005/HPB03	92	record keeping/maintenance procedures
U-00004/00004/011/GTC04	163	work practice involving specific operations
U-00006/00006/016/GTC06	247	work practice involving specific operations
U-00004/00004/011/GTC04	164	work practice involving specific operations
U-00006/00006/016/GTC06	248	work practice involving specific operations
U-00004/00004	119	continuous emission monitoring (cem)
U-00006/00006	191	continuous emission monitoring (cem)
U-00004/00004	120	continuous emission monitoring (cem)
U-00006/00006	192	continuous emission monitoring (cem)
U-00004/00004	121	continuous emission monitoring (cem)
U-00004/00004	122	continuous emission monitoring (cem)
U-00004/00004	123	continuous emission monitoring (cem)
U-00006/00006	193	continuous emission monitoring (cem)
U-00006/00006	194	continuous emission monitoring (cem)
U-00006/00006	195	continuous emission monitoring (cem)
U-00004/00004	124	work practice involving specific operations
U-00006/00006	196	work practice involving specific operations



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U-00004/00004	125	work practice involving specific operations
U-00006/00006	197	work practice involving specific operations
FACILITY	47	work practice involving specific operations
FACILITY	48	record keeping/maintenance procedures
FACILITY	49	record keeping/maintenance procedures
FACILITY	24	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	26	monitoring of process or control device parameters as surrogate
FACILITY	27	monitoring of process or control device parameters as surrogate
FACILITY	28	work practice involving specific operations
FACILITY	29	monitoring of process or control device parameters as surrogate
FACILITY	30	monitoring of process or control device parameters as surrogate
FACILITY	31	monitoring of process or control device parameters as surrogate
FACILITY	32	monitoring of process or control device parameters as surrogate
FACILITY	33	monitoring of process or control device parameters as surrogate
FACILITY	34	work practice involving specific operations
FACILITY	35	work practice involving specific operations
U-00003/00003/005/HPB03	74	work practice involving specific operations
U-00003/00003/005/HPB03	75	work practice involving specific operations
U-00003/00003/006/HPB03	93	work practice involving specific operations
FACILITY	36	record keeping/maintenance procedures
FACILITY	37	record keeping/maintenance procedures
FACILITY	38	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	39	monitoring of process or control device parameters as surrogate
U-00004/00004	104	continuous emission monitoring (cem)
U-00006/00006	176	continuous emission monitoring (cem)
U-00001/00001/001/00001	59	work practice involving specific operations
U-00002/00002/003/00002	69	work practice involving specific operations
FACILITY	42	work practice involving specific operations
U-00004/00004	105	work practice involving specific operations
U-00006/00006	177	work practice involving specific operations



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U-00003/00003/005/HPB03	81	specific operations
U-00001/00001/001/00001	60	intermittent emission testing
		continuous emission monitoring (cem)
U-00002/00002/003/00002	70	continuous emission monitoring (cem)
U-00004/00004	252	intermittent emission testing
U-00004/00004	253	intermittent emission testing
U-00006/00006	254	intermittent emission testing
U-00006/00006	255	intermittent emission testing
FACILITY	43	monitoring of process or control device parameters as surrogate
U-00001/00001	53	monitoring of process or control device parameters as surrogate
U-00002/00002	63	monitoring of process or control device parameters as surrogate
U-00003/00003	73	monitoring of process or control device parameters as surrogate
U-00004/00004	106	continuous emission monitoring (cem)
U-00004/00004	107	monitoring of process or control device parameters as surrogate
U-00006/00006	178	continuous emission monitoring (cem)
U-00006/00006	179	monitoring of process or control device parameters as surrogate
U-00004/00004	108	continuous emission monitoring (cem)
U-00004/00004	109	continuous emission monitoring (cem)
U-00006/00006	180	continuous emission monitoring (cem)
U-00006/00006	181	continuous emission monitoring (cem)
U-00001/00001	54	record keeping/maintenance procedures
U-00002/00002	64	record keeping/maintenance procedures
U-00001/00001/001/00001	61	continuous emission monitoring (cem)
U-00001/00001/002/00001	62	continuous emission monitoring (cem)
U-00002/00002/003/00002	71	continuous emission monitoring (cem)
U-00002/00002/004/00002	72	continuous emission monitoring (cem)
FACILITY	44	monitoring of process or control device parameters as surrogate
FACILITY	45	monitoring of process or control device parameters as surrogate
U-00001/00001	55	continuous emission monitoring (cem)
U-00001/00001	56	continuous emission monitoring (cem)
U-00002/00002	65	continuous emission monitoring (cem)
U-00002/00002	66	continuous emission monitoring (cem)
U-00003/00003/005/HPB03	76	monitoring of process or control device parameters as surrogate
U-00003/00003/006/HPB03	94	monitoring of process or control device parameters as surrogate
U-00003/00003/005/HPB03	77	continuous emission monitoring



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U-00003/00003/006/HPB03	95	(cem) continuous emission monitoring
U-00004/00004/011/GTC04	158	(cem) continuous emission monitoring
U-00006/00006/016/GTC06	242	(cem) continuous emission monitoring
U-00004/00004/009/GT004	147	(cem) continuous emission monitoring
U-00004/00004/P10/GT004	165	(cem) continuous emission monitoring
U-00006/00006/014/GT006	220	(cem) continuous emission monitoring
U-00006/00006/015/GT006	231	(cem) continuous emission monitoring
U-00004/00004/007/GT004	126	(cem) continuous emission monitoring
U-00004/00004/008/GT004	137	(cem) continuous emission monitoring
U-00006/00006/012/GT006	198	(cem) continuous emission monitoring
U-00006/00006/013/GT006	208	(cem) continuous emission monitoring
U-00001/00001	57	monitoring of process or control device parameters as surrogate
U-00002/00002	67	monitoring of process or control device parameters as surrogate
U-00003/00003/005/HPB03	78	record keeping/maintenance procedures
U-00003/00003/006/HPB03	96	record keeping/maintenance procedures
U-00003/00003/005/HPB03	79	continuous emission monitoring (cem)
U-00003/00003/006/HPB03	97	continuous emission monitoring (cem)
U-00004/00004	110	continuous emission monitoring (cem)
U-00004/00004	111	continuous emission monitoring (cem)
U-00004/00004/009/GT004	148	continuous emission monitoring (cem)
U-00004/00004/011/GTC04	159	continuous emission monitoring (cem)
U-00004/00004/P10/GT004	166	continuous emission monitoring (cem)
U-00006/00006	182	continuous emission monitoring (cem)
U-00006/00006	183	continuous emission monitoring (cem)
U-00006/00006/014/GT006	221	continuous emission monitoring (cem)
U-00006/00006/015/GT006	232	continuous emission monitoring (cem)
U-00006/00006/016/GTC06	243	continuous emission monitoring (cem)
U-00001/00001	58	record keeping/maintenance procedures
U-00002/00002	68	record keeping/maintenance procedures
FACILITY	46	record keeping/maintenance procedures
U-00003/00003/005/HPB03	80	intermittent emission testing
U-00003/00003/006/HPB03	98	intermittent emission testing
U-00004/00004	112	record keeping/maintenance procedures
U-00004/00004	113	record keeping/maintenance procedures
U-00004/00004	114	record keeping/maintenance procedures
U-00004/00004/007/GT004	127	continuous emission monitoring (cem)



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U-00004/00004/007/GT004	128	record keeping/maintenance procedures
U-00004/00004/007/GT004	129	intermittent emission testing
U-00004/00004/007/GT004	130	continuous emission monitoring (cem)
U-00004/00004/008/GT004	138	intermittent emission testing
U-00004/00004/008/GT004	139	continuous emission monitoring (cem)
U-00004/00004/008/GT004	140	continuous emission monitoring (cem)
U-00004/00004/009/GT004	149	intermittent emission testing
U-00004/00004/009/GT004	150	continuous emission monitoring (cem)
U-00004/00004/009/GT004	151	continuous emission monitoring (cem)
U-00004/00004/P10/GT004	167	intermittent emission testing
U-00004/00004/P10/GT004	168	continuous emission monitoring (cem)
U-00004/00004/P10/GT004	169	continuous emission monitoring (cem)
U-00006/00006	184	record keeping/maintenance procedures
U-00006/00006	185	record keeping/maintenance procedures
U-00006/00006	186	record keeping/maintenance procedures
U-00006/00006	187	record keeping/maintenance procedures
U-00006/00006/012/GT006	199	intermittent emission testing
U-00006/00006/012/GT006	200	continuous emission monitoring (cem)
U-00006/00006/012/GT006	201	continuous emission monitoring (cem)
U-00006/00006/013/GT006	209	record keeping/maintenance procedures
U-00006/00006/013/GT006	210	record keeping/maintenance procedures
U-00006/00006/013/GT006	211	intermittent emission testing
U-00006/00006/013/GT006	212	continuous emission monitoring (cem)
U-00006/00006/013/GT006	213	continuous emission monitoring (cem)
U-00006/00006/014/GT006	222	intermittent emission testing
U-00006/00006/014/GT006	223	continuous emission monitoring (cem)
U-00006/00006/014/GT006	224	continuous emission monitoring (cem)
U-00006/00006/015/GT006	233	intermittent emission testing
U-00006/00006/015/GT006	234	continuous emission monitoring (cem)
U-00006/00006/015/GT006	235	continuous emission monitoring (cem)

Basis for Monitoring

This facility is subject to the requirements of Title V. The facility is required, under the provisions of 6 NYCRR Subpart 201-6, to submit semiannual compliance reports and an annual Compliance Certification.

This facility has to comply with the following monitoring conditions:

- Condition # 26 for 6 NYCRR 201-7**, Capping out of 6 NYCRR 231-2.7(b) for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 7,000 hours per year combined on # 2 fuel oil at 70% load for Processes 008 & 013, and on natural gas at 70% load for Processes P10 & 015.
- Condition # 27 for 6 NYCRR 201-7**, Capping out of 40 CFR 52-A.21 for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 720 hours per year on # 2 fuel oil prior to approved stack test at any load for Processes 007, 008, 012 & 013.



3. **Condition # 28 for NYCRR 201-7**, Capping out of 6 NYCRR 231-2 for Oxides of Nitrogen, the two boilers (Emission Sources 00001 & 00002) are limited to 1.3 million gallons of # 6 fuel oil combined operating on # 6 fuel oil for Processes 001 & 003.
4. **Condition # 29 for 6 NYCRR 201-7**, Capping out of 40 CFR 52-A.21 for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 3,460 hours per year on combined # 2 fuel oil at 100% load for Processes 007 & 012, and # 2 fuel oil at 70% load for Processes 008 & 013.
5. **Condition # 30 for 6 NYCRR 201-7**, Capping out of 6 NYCRR 231-2.7(b) for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 5,820 hours per year combined on # 2 fuel oil at minimum load (70%) for Processes 008 & 013 for the two combustion turbines, and for Processes P10 & 015 for the two combustion turbines on natural gas at minimum load (70%).
6. **Condition # 31 for 6 NYCRR 201-7**, Capping out of 40 CFR 52-A.21 for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 14,000 hours per year combined on # 2 fuel oil for Processes 007, 008 012 & 013, and on natural gas for Processes 009, P10, 011, 014, 015 & 016.
7. **Condition # 32 for 6 NYCRR 201-7**, Capping out of 40 CFR 52-A.21 for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 300 hours per year combined on # 2 fuel oil at minimum load (70%) prior to stack testing for Processes 008 & 013.
8. **Condition # 33 for 6 NYCRR 201-7**, Capping out of 40 CFR 52-A.21 for Particulates, the two Siemens combustion turbines (Emission Sources GT004 & GT006) and their two duct burners (Emission Controls GTC004 & GTC006) are limited to operating 1,730 hours per year combined on # 2 fuel oil at minimum load (70%) for Processes 008 & 013.
9. **Condition # 34 for 6 NYCRR 201-7**, Capping out of 6 NYCRR 231-2.7(b) for Oxides of Nitrogen, the two 371 MM Btu/hr each low pressure Riley Stoker boilers (Emission Source 00001 in Emission Unit U-00001 and Emission Source 00002 in Emission Unit U-00002) are limited to 1,040,000 cubic feet of natural gas combined for Processes 002 & 004.
10. **Condition # 35 for NYCRR 201-7**, Capping out of 6 NYCRR 231-2 for Oxides of Nitrogen, the two duct burners (Emission Controls GTC004 & GTC006) are limited to 320 million cubic feet per year combined operating on natural gas for Processes 011 & 016.
11. **Condition # 39 for 6 NYCRR 204-1** for Oxides of Nitrogen. The facility total NOx emissions limit during the 2006 control period (May 1 through September 30) is 71 tons, during the 2007 control period is 70 tons, and during the 2008 control period is 85 tons.
12. **Condition # 42 for 6 NYCRR 225-1.2(a)(2)** for Sulfur Dioxide, the facility will not purchase or use any # 2 fuel oil (distillate oil) exceeding 15.0 parts per million Sulfur by weight.
13. **Condition # 43 for 6 NYCRR 227-1.3** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission



Unit U-00004) with a COMS.

14. **Condition # 44 for 6 NYCRR 227-2.4(a)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.25 pounds per million Btus for large boilers operating on gas/oil using the 24-hour average method and continuous monitoring.

15. **Condition # 45 for 6 NYCRR 227-2.4(a)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.25 pounds per million Btus for large boilers operating on gas/oil using the 30-day rolling average method and continuous monitoring.

16. **Condition # 47 for 40 CFR 72.9, Subpart A** for Sulfur Dioxide, the facility will calculate the hourly Sulfur Dioxide emissions based on fuel usage and sulfur content in accordance with 40 CFR Subpart GG, 40 CFR 72, and 40 CFR 75. The two gas turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006) will be exempt from 40 CFR 72, as long as the combined two gas turbines supply 'equal to or less than 219,000 MWe-hrs actual electric output on an annual basis to any utility power distribution system for sale'. If the facility exceeds the limit of 219,000 megawatt hour electrical output, then the facility is required to continuously monitor the Sulfur Dioxide using 1-hour average and submit quarterly reports.

17. **Condition # 53 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) with a COMS.

18. **Condition # 55 for 6 NYCRR 227-2.4(a)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.25 pounds per million Btus for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) operating on gas/oil using the 30-day rolling average method and continuous emission monitoring.

19. **Condition # 56 for 6 NYCRR 227-2.4(a)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.25 pounds per million Btus for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) operating on gas/oil using the 24-hour average method and continuous emission monitoring.

20. **Condition # 57 for 6 NYCRR 227-2.6(a)(1)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.25 MM Btu/hr for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) operating on gas/oil using a continuous emissions monitoring system (CEMS).

21. **Condition # 59 for 6 NYCRR 225-1.2(a)** for Sulfur Dioxide, the facility will not purchase or use any # 6 fuel oil (residual fuel) exceeding 0.30 % by weight sulfur content for the 371 MM Btu/hr low pressure Riley Stoker boilers (Emission Source 00001 in Emission Unit U-00001).

22. **Condition # 60 for 6 NYCRR 227-1.2(a)(1)**, the facility would rely on continuous opacity monitoring (COM) as surrogate for an indication of compliance with the 0.1 pounds per million Btus for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) burning # 6 fuel oil (Process 001).

23. **Condition # 61 for 6 NYCRR 227-2** for Oxides of Nitrogen, the facility will demonstrate compliance with the 0.25 pounds per million Btus NO_x emission limit for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) for # 6 fuel oil (Process 001) with a Continuous



Emission Monitoring.

24. **Condition # 62 for 6 NYCRR 227-2** for Oxides of Nitrogen, the facility will demonstrate compliance with the 0.25 pounds per million Btus NOx emission limit for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00001 in Emission Unit U-00001) for natural gas (Process 002) with a Continuous Emission Monitoring.

25. **Condition # 63 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission unit U-00002) with a COMS.

26. **Condition # 65 for 6 NYCRR 227-2.4(a)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx RACT emission limit of 0.25 pounds per million BTUs for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission Unit U-00002) operating on gas/oil using the 24-hour average method and continuous monitoring.

27. **Condition # 66 for 6 NYCRR 227-2.4(a)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx RACT emission limit of 0.25 pounds per million Btus for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission Unit U-00002) operating on gas/oil using the 30-day rolling average method and continuous monitoring.

28. **Condition # 67 for 6 NYCRR 227-2.6(a)(1)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx RACT emission limit of 0.25 pounds per million BTUs for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission Unit U-00002) operating on gas/oil using a continuous emissions monitoring system (CEMS).

29. **Condition # 69 for 6 NYCRR 225-1.2(a)** for Sulfur Dioxide, the facility will not use purchase or use any # 6 fuel oil (Process 003) exceeding 0.30 % by weight sulfur content for the 371 MM Btu/hr low pressure Riley Stoker boilers (Emission Source 00002 in Emission Unit U-00002).

30. **Condition # 70 for 6 NYCRR 227-1.2(a)(1)** for Particulates, the facility would rely on continuous opacity monitoring system (COMS) as a surrogate indication of compliance with the 0.1 pounds per million Btus for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission Unit U-00002) burning # 6 fuel oil (Process 003).

31. **Condition # 71 for 6 NYCRR 227-2** for Oxides of Nitrogen, the facility will demonstrate compliance with the 0.25 pounds per million BTUs NOx emission limit for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission Unit U-00002) for # 6 fuel oil (Process 003) with a Continuous Emission Monitoring.

32. **Condition # 72 for 6 NYCRR 227-2** for Oxides of Nitrogen, the facility will demonstrate compliance with the 0.25 pounds per million BTUs NOx emission limit for the 371 MM Btu/hr low pressure Riley Stoker boiler (Emission Source 00002 in Emission Unit U-00002) for natural gas (Process 004) with a Continuous Emission Monitoring.

33. **Condition # 73 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the new 212 MM BTU/hr high pressure and low heat release Rentech boiler (Emission Source HBP03 in Emission Unit U-00003) with a COMS.



34. **Condition # 74 for 6 NYCRR 201-7**, Capping out of 6 NYCRR 201-6 for Oxides of Nitrogen, the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) is limited to 0.8 million gallons per year of # 2 fuel oil for Process 005 prior to approved stack. For PM-10 = 0.03 lbs/MM Btu. Natural gas will be reduced by the amount of # 2 fuel oil used.
35. **Condition # 75 for 6 NYCRR 201-7**, Capping out of 6 NYCRR 201-6 for Oxides of Nitrogen, the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) is limited to 2.5 million gallons per year of # 2 fuel oil for Process 005. For PM-10 = 0.03 lbs/MM Btu. Natural gas will be reduced by the amount of # 2 fuel oil used.
36. **Condition # 76 for 6 NYCRR 227-2.4(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx RACT emission limit of 0.30 pounds per million Btus for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on distillate oil (Process 005) using the 24-hour average method and continuous monitoring.
37. **Condition # 77 for 6 NYCRR 227-2.4(b)(1)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx RACT emission limit of 0.30 pounds per million Btus for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on distillate oil (Process 005) using the 24-hour average method and continuous emission monitoring.
38. **Condition # 79 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx RACT emission limit of 0.30 MM Btu/hr for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on distillate oil (Process 005) using continuous emissions monitoring system (CEMS).
39. **Condition # 80 for 6 NYCRR 227-2.6(c)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NOx emission limit of 0.30 pounds per million Btus for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on distillate oil (Process 005) by performing an intermittent emission testing (a stack test).
40. **Condition # 81 for 6 NYCRR 227-2.6(b)(1)** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 0.10 pounds per million Btus for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on distillate oil (Process 005) by performing an intermittent emission testing (a stack test).
41. **Condition # 83 for 40 CFR 60.42b(j), NSPS Subpart Db** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005).
42. **Condition # 84 for 40 CFR 60.43b(b), NSPS Subpart Db** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 0.1 pounds per million Btus by performing a stack testing for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005).
43. **Condition # 85 for 40 CFR 60.43b(f), NSPS Subpart Db** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005) with a COMS.



44. **Condition # 86 for 40 CFR 60.44b(a)(1), NSPS Subpart Db** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.10 pounds per million Btus for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005) by using a continuous emissions monitoring system (CEMS).
45. **Condition # 87 for 40 CFR 60.44b(a)(1), NSPS Subpart Db** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005).
46. **Condition # 89 for 40 CFR 60.46b(e), NSPS Subpart Db** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.10 pounds per million Btus for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005) by using a continuous emissions monitoring system (CEMS).
47. **Condition # 90 for 40 CFR 60.47b(f), NSPS Subpart Db** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005).
48. **Condition # 91 for 40 CFR 60.48b(b), NSPS Subpart Db** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.10 pounds per million Btus for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing # 2 fuel oil (Process 005) by using a continuous emissions monitoring system (CEMS).
49. **Condition # 93 for 6 NYCRR 201-7**, Capping out of 6 NYCRR 201-6 for Oxides of Nitrogen, the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) is limited to 1,800 million cubic feet of natural gas for Process 006 minus 320 CF/Gal oil. Allowed natural gas use shall be reduced by any # 2 fuel oil consumed by the ratio of 320 cubic feet of natural gas per gallon of oil burned..
50. **Condition # 94 for 6 NYCRR 227-2.4(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.30 MM Btu/hr for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on natural gas (Process 006) using the 24-hour average method and continuous monitoring.
51. **Condition # 95 for 6 NYCRR 227-2.4(b)(1)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.30 pounds per million Btus for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on natural gas (Process 006) using the 24-hour average method and continuous emission monitoring.
52. **Condition # 97 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x RACT emission limit of 0.30 MM Btu/hr for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on natural gas (Process 006) using continuous emissions monitoring system (CEMS).



53. **Condition # 98 for 6 NYCRR 227-2.6(c)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.30 pounds per million Btus for the new 212 MM Btu/hr high and low heat release pressure Rentech boiler (Emission Source HPB03 in Emission Unit U-00003) operating on natural gas (Process 006) by performing an intermittent emission testing (a stack test).

54. **Condition # 100 for 40 CFR 60.43b(f), NSPS Subpart Db** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing natural gas (Process 006) with a COMS.

55. **Condition # 101 for 40 CFR 60.46b(e), NSPS Subpart Db** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.10 pounds per million Btus for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing natural gas (Process 006) by using a continuous emissions monitoring system (CEMS).

56. **Condition # 102 for 40 CFR 60.48b(b), NSPS Subpart Db** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.10 pounds per million Btus for the 212 MM Btu/hr high pressure and low heat release boiler (Emission Source HPB03 in Emission Unit U-00003) firing natural gas (Process 006) by using a continuous emissions monitoring system (CEMS).

57. **Condition # 104 for 6 NYCRR 211.3.** for Particulates for the 131 MM Btu/hr Combustion Turbine (Siemens Model GT-400), rated at 131 MM Btu/hr (Emission Source GT004 in Emission Unit U-00004), compliance with the 57% opacity will be demonstrated with a Continuous Opacity Monitor (COMS).

58. **Condition # 105 for 6 NYCRR 225-1.7** for Sulfur Dioxide, the facility will not purchase or use any # 2 fuel oil (distillate oil) exceeding 15.0 parts per million Sulfur by weight in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004).

59. **Condition # 106 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 27 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with a COMS.

60. **Condition # 107 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with a COMS.

61. **Condition # 108 for 6 NYCRR 227-1.3(b)** for Particulates for Continuous Emission Monitoring, the facility will demonstrate compliance with the 27 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with a COMS in accordance with 40 CFR Part 60, Appendix A.

62. **Condition # 109 for 6 NYCRR 227-1.3(b)** for Particulates for Continuous Emission Monitoring, the facility will demonstrate compliance with the 20 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with a COMS in accordance with 40 CFR Part 60, Appendix A.

63. **Condition # 110 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) burning natural gas at all loads using a continuous emissions monitoring system (CEMS).



64. **Condition # 111 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 65.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) burning distillate fuel oil at all loads using a continuous emissions monitoring system (CEMS).
65. **Condition # 115 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.5 grains per 100 dscf is in the “pipeline natural gas” from Consolidate Edison. This 0.5 grains per 100 dscf sulfur content limit is in the pipeline natural gas and is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus.
66. **Condition # 116 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 15.0 parts per million by weight in the distillate oil for each delivery to the bulk storage tank from the fuel oil supplier. The 15.0 parts per million by weight sulfur content limit in the distillate oil is be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006).
67. **Condition # 117 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 15.0 parts per million by weight in the distillate oil for each delivery to the bulk storage tank from the fuel oil supplier. Facility combustion turbines operation is limited to 3,460 total hours per year. The 15.0 parts per million by weight sulfur content limit in the distillate oil is be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006).
68. **Condition # 118 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.5 grains per 100 dscf is in the pipeline natural gas from Consolidate Edison. This 0.5 grains per 100 dscf sulfur content limit is in the “pipeline natural gas” and is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006).
69. **Condition # 119 for 40 CFR 60.334(b), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) by using a continuous emissions monitoring system (CEMS). LAER is required.
70. **Condition # 120 for 40 CFR 60.334(c), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) by using a continuous emissions monitoring system (CEMS). LAER is required.
71. **Condition # 121 for 40 CFR 60.334(c)(1), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 3.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) firing natural gas at 70% load (Process P10) by using a continuous emissions monitoring system (CEMS). LAER is required.
72. **Condition # 122 for 40 CFR 60.334(c)(1), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) under normal operating conditions firing fuel oil from 70% to 100% load. by using a continuous emissions



monitoring system (CEMS). LAER is required.

73. **Condition # 123 for 40 CFR 60.334(c)(1), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 2.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) firing natural gas at 100% load (Process 009) by using a continuous emissions monitoring system (CEMS). LAER is required.

74. **Condition # 124 for 40 CFR 60.334(h)(3), NSPS Subpart GG** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.5 grains per 100 dscf is in the "pipeline natural gas" from Consolidate Edison. This 0.5 grains per 100 dscf sulfur content limit is in the pipeline natural gas and is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT00 in Emission Unit U-00006). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus

75. **Condition # 125 for 40 CFR 60.334(i)(1), NSPS Subpart GG** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006). BACT is required.

76. **Condition # 126 for 6 NYCRR 227-2.4(e)(2)(ii)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 65.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) with a continuous emission monitor.

77. **Condition # 127 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) by using a continuous emissions monitoring system (CEMS). LAER is required.

78. **Condition # 129 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) by performing an intermittent emission testing (a stack test). LAER is required.

79. **Condition # 130 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) by using a continuous emissions monitoring system (CEMS). LAER is required.

80. **Condition # 131 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.014 pounds per hour for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) by performing an intermittent emission testing (a stack test). BACT is required.



81. **Condition # 132 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.00012 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) by performing an intermittent emission testing (a stack test). BACT is required.
82. **Condition # 133 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007). BACT is required.
83. **Condition # 134 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) prior to approved stack test. Prior to the approved stack testing that has to be performed, the facility is limited to PM-10 emissions of 25.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.
84. **Condition # 135 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007). Prior to approved stack test that has to be performed, the facility is limited to Particulates emissions of 25.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.
85. **Condition # 136 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 007) by using a continuous emissions monitoring system (CEMS). BACT is required.
86. **Condition # 137 for 6 NYCRR 227-2.4(e)(2)(ii)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 65.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) with a continuous emission monitor.
87. **Condition # 138 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by performing an intermittent emission testing (a stack test). LAER is required.
88. **Condition # 139 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by using a continuous emissions monitoring system (CEMS). LAER is required.



89. **Condition # 140 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by using a continuous emissions monitoring system (CEMS). LAER is required.

90. **Condition # 141 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008). BACT is required.

91. **Condition # 142 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.011 pounds per hour. This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

92. **Condition # 143 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.00012 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by performing an intermittent emission testing (a stack test). BACT is required.

93. **Condition # 144 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 30.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by performing an intermittent emission testing (a stack test). BACT is required.

94. **Condition # 145 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 30.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by performing an intermittent emission testing (a stack test). BACT is required.

95. **Condition # 146 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 008) by using a continuous emissions monitoring system (CEMS). BACT is required.

96. **Condition # 147 for 6 NYCRR 227-2.4(e)(2)(i)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) with a continuous emission monitor.

97. **Condition # 148 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate



compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) by meeting the combustion turbine emission guarantee of 2.5 parts per million by volume (dry, corrected to 15% O₂). Performance will be confirmed with a continuous emissions monitoring system (CEMS).

98. **Condition # 149 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 2.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) by performing an intermittent emission testing (a stack test). LAER is required.

99. **Condition # 150 for 6 NYCRR 231-2.7** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 2.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) by using a continuous emissions monitoring system (CEMS). LAER is required.

100. **Condition # 151 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 1.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) by using a continuous emissions monitoring system (CEMS). LAER is required.

101. **Condition # 152 for 40 CFR 52.21(j), Subpart A** for 40 CFR 52.21(j), Subpart A for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.006 pounds per hour. This 0.5 grains per 100 dscf sulfur content limit in natural gas is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

102. **Condition # 153 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.000045 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) by performing an intermittent emission testing (a stack test). BACT is required.

103. **Condition # 154 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 7.5 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) prior to approved stack test. Prior to approved stack test that has to be performed, the facility is limited to PM-10 emissions of 10.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.

104. **Condition # 155 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 7.5 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009). Prior to approved stack test that has to be performed, the facility is limited to Particulates emissions of 10.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is



required.

105. **Condition # 156 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009) by using a continuous emissions monitoring system (CEMS). BACT is required.

106. **Condition # 157 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.0003 pounds per million Btus is in the “pipeline natural gas” from Consolidate Edison. This 0.0003 pounds per million Btus sulfur content limit is in the pipeline natural gas and is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 009). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus.

107. **Condition # 158 for 6 NYCRR 227-2.4(c)(1)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.1 pounds per million Btus for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) operating on natural gas (Process P11) using the 24-hour average method and continuous emission monitoring.

108. **Condition # 159 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.1 pounds per million Btus for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) operating on natural gas (Process P11) using a continuous emissions monitoring system (CEMS).

109. **Condition # 160 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 0.01 pounds per million Btus after stack testing for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) operating on natural gas (Process P11). BACT is required.

110. **Condition # 161 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 0.01 pounds per million Btus after stack testing for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) operating on natural gas (Process P11). BACT is required.

111. **Condition # 162 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) operating on natural gas (Process P11) by using a continuous emissions monitoring system (CEMS). BACT is required. BACT is required.

112. **Condition # 163 for 40 CFR 60.43c(e), NSPS Subpart Dc** for Sulfur Dioxide, the facility will demonstrate compliance with the Sulfur Dioxide emission limit for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) in the natural gas process (Process 011) by maintaining the sulfur content limit of 0.03 pounds per million Btus is in the “pipeline natural gas” from Consolidate Edison, which is less than 0.54 pounds per million Btus. BACT is required.

113. **Condition # 164 for 40 CFR 60.47c(c), NSPS Subpart Dc** for Particulates, the facility will demonstrate compliance with the Particulates emission limit for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) in the natural gas process (Process 011) by maintaining the sulfur content limit of



0.03 pounds per million Btus is in the “pipeline natural gas” from Consolidate Edison, which is less than the 0.54 pounds per million Btus required by 40 CFR 60.47c(c), NSPS Subpart Dc. .BACT is required

114. **Condition # 165 for 6 NYCRR 227-2.4(e)(2)(i)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) with a continuous emission monitor.

115. **Condition # 166 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by meeting the combustion turbine emission guarantee of 3.5 parts per million by volume (dry, corrected to 15% O₂). Performance will be confirmed with a continuous emissions monitoring system (CEMS).

116. **Condition # 167 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by performing an intermittent emission testing (a stack test). LAER is required.

117. **Condition # 168 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 3.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by using a continuous emissions monitoring system (CEMS). LAER is required.

118. **Condition # 169 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by using a continuous emissions monitoring system (CEMS). LAER is required.

119. **Condition # 170 for 40 CFR 52.21(j), Subpart A** for 40 CFR 52.21(j), Subpart A for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.005 pounds per hour for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

120. **Condition # 171 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.000046 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by performing an intermittent emission testing (a stack test). BACT is required.

121. **Condition # 172 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas



(Process P10) by performing an intermittent emission testing (a stack test). BACT is required.

122. **Condition # 173 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by performing an intermittent emission testing (a stack test). BACT is required.

123. **Condition # 174 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.0003 pounds per million Btus is in the “pipeline natural gas” from Consolidate Edison. This 0.0003 pounds per million Btus sulfur content limit is in the pipeline natural gas and is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus. BACT is required.

124. **Condition # 175 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process P10) by using a continuous emissions monitoring system (CEMS). BACT is required.

125. **Condition # 176 for 6 NYCRR 211.3.** for the 131 MM Btu/hr Combustion Turbine (Siemens Model GT-400), rated at 131 MM Btu/hr (Emission Source GT006 in Emission Unit U-00006), compliance with the 57% opacity will be demonstrated with a Continuous Opacity Monitor (COMS).

126. **Condition # 177 for 6 NYCRR 225-1.7** for Sulfur Dioxide, the facility will not purchase or use any # 2 fuel oil (distillate oil) exceeding 15.0 parts per million Sulfur by weight in the Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006).

127. **Condition # 178 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 27 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with a COMS.

128. **Condition # 179 for 6 NYCRR 227-1.3(a)** for Particulates, the facility will demonstrate compliance with the 20 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with a COMS.

129. **Condition # 180 for 6 NYCRR 227-1.3(b)** for Particulates for Continuous Emission Monitoring, the facility will demonstrate compliance with the 27 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with a COMS in accordance with 40 CFR Part 60, Appendix A.

130. **Condition # 181 for 6 NYCRR 227-1.3(b)** for Particulates for Continuous Emission Monitoring, the facility will demonstrate compliance with the 20 % opacity limit for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with a COMS in accordance with 40 CFR Part 60, Appendix A.

131. **Condition # 182 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 65.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) burning distillate fuel oil at all loads using a continuous



emissions monitoring system (CEMS).

132. **Condition # 183 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) burning natural gas at all loads using a continuous emissions monitoring system (CEMS).

133. **Condition # 188 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.5 grains per 100 dscf is in the “pipeline natural gas” from Consolidate Edison. This 0.5 grains per 100 dscf sulfur content limit is in the pipeline natural gas and is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus.

134. **Condition # 189 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 15.0 parts per million by weight in the distillate oil for each delivery to the bulk storage tank from the fuel oil supplier. Facility combustion turbines operation is limited to 3,460 total hours per year. The 15.0 parts per million by weight sulfur content limit in the distillate oil is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006).

135. **Condition # 190 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 15.0 parts per million by weight in the distillate oil for each delivery to the bulk storage tank from the fuel oil supplier. The 15.0 parts per million by weight sulfur content limit in the distillate oil is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006).

136. **Condition # 191 for 40 CFR 60.334(b), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) by using a continuous emissions monitoring system (CEMS). LAER is required.

137. **Condition # 192 for 40 CFR 60.334(c), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) by using a continuous emissions monitoring system (CEMS). LAER is required.

138. **Condition # 193 for 40 CFR 60.334(c)(1), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 3.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) firing natural gas at 70% load (Process 015) by using a continuous emissions monitoring system (CEMS). LAER is required.

139. **Condition # 194 for 40 CFR 60.334(c)(1), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 2.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) firing natural gas at 100% load (Process 014) by using a continuous emissions monitoring system (CEMS). LAER is required.

140. **Condition # 195 for 40 CFR 60.334(c)(1), NSPS Subpart GG** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the



131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) under normal operating conditions firing fuel oil from 70% to 100% load by using a continuous emissions monitoring system (CEMS). LAER is required.

141. **Condition # 196 for 40 CFR 60.334(h)(3), NSPS Subpart GG** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.5 grains per 100 dscf is in the "pipeline natural gas" from Consolidate Edison. This 0.5 grains per 100 dscf sulfur content limit is in the pipeline natural gas and is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT00 in Emission Unit U-00006). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus

142. **Condition # 197 for 40 CFR 60.334(i)(1), NSPS Subpart GG** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Unit U-00006). BACT is required.

143. **Condition # 198 for 6 NYCRR 227-2.4(e)(2)(ii)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 65.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) with a continuous emission monitor.

144. **Condition # 199 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) by performing an intermittent emission testing (a stack test). LAER is required.

145. **Condition # 200 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) by using a continuous emissions monitoring system (CEMS). LAER is required.

146. **Condition # 201 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) by using a continuous emissions monitoring system (CEMS). LAER is required.

147. **Condition # 202 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.00012 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) by performing an intermittent emission testing (a stack test). BACT is required.

148. **Condition # 203 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content



distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012). BACT is required.

149. **Condition # 204 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.014 pounds per hour for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) by performing an intermittent emission testing (a stack test). BACT is required.

150. **Condition # 205 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012). Prior to the approved stack testing that has to be performed, the facility is limited to PM-10 emissions of 25.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.

151. **Condition # 206 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012). Prior to the approved stack test that has to be performed, the facility is limited to Particulates emissions of 25.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.

152. **Condition # 207 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning distillate fuel oil (Process 012) by using a continuous emissions monitoring system (CEMS). BACT is required.

153. **Condition # 208 for 6 NYCRR 227-2.4(e)(2)(ii)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 65.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) with a continuous emission monitor.

154. **Condition # 211 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) by performing an intermittent emission testing (a stack test). LAER is required.

155. **Condition # 212 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 6.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) by using a continuous emissions monitoring system (CEMS). LAER is required.

156. **Condition # 213 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens



combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) by using a continuous emissions monitoring system (CEMS). LAER is required.

157. **Condition # 214 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will monitor the sulfur content in the distillate fuel oil to be a maximum of 15.0 parts per million by weight. This will limit the Sulfur Dioxide emissions to 0.3 parts per million by volume (dry, corrected to 15% O₂). This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013). BACT is required.

158. **Condition # 215 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.011 pounds per hour. This ultra low sulfur content distillate fuel oil is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

159. **Condition # 216 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.00012 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

160. **Condition # 217 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 30.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) by performing an intermittent emission testing (a stack test). BACT is required.

161. **Condition # 218 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 30.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) by performing an intermittent emission testing (a stack test). BACT is required.

162. **Condition # 219 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning distillate fuel oil (Process 013) by using a continuous emissions monitoring system (CEMS). BACT is required.

163. **Condition # 220 for 6 NYCRR 227-2.4(e)(2)(i)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) with a continuous emission monitor.

164. **Condition # 221 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at



maximum load (100%) burning natural gas (Process 014) by meeting the combustion turbine emission guarantee of 2.5 parts per million by volume (dry, corrected to 15% O₂). Performance will be confirmed with a continuous emissions monitoring system (CEMS).

165. **Condition # 222 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 2.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) by performing an intermittent emission testing (a stack test). LAER is required.

166. **Condition # 223 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 2.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) by using a continuous emissions monitoring system (CEMS). LAER is required.

167. **Condition # 224 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 1.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) by using a continuous emissions monitoring system (CEMS). LAER is required.

168. **Condition # 225 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.5 grains per 100 dscf is in the "pipeline natural gas" from Consolidate Edison. This 0.5 grains per 100 dscf sulfur content limit is in the pipeline natural gas and is to be used in the two combustion turbines (Emission Source GT004 in Emission Unit U-00004 and Emission Source GT006 in Emission Source U-00006). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus

169. **Condition # 226 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.006 pounds per hour for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

170. **Condition # 227 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.000045 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) by performing an intermittent emission testing (a stack test). BACT is required.

171. **Condition # 228 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 7.5 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) prior to approved stack test. Prior to the approved stack testing that has to be performed, the facility is limited to PM-10 emissions of 10.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.

172. **Condition # 229 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 7.5 milligrams per normal cubic meter (dry, corrected to



15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014). Prior to approved stack test that has to be performed, the facility is limited to Particulates emissions of 10.0 milligrams per normal cubic meter (dry, corrected to 15% O₂). BACT is required.

173. **Condition # 230 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 139.6 MM Btu/hr at maximum load (100%) burning natural gas (Process 014) by using a continuous emissions monitoring system (CEMS). BACT is required.

174. **Condition # 231 for 6 NYCRR 227-2.4(e)(2)(i)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) with a continuous emission monitor.

175. **Condition # 232 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by meeting the combustion turbine emission guarantee of 3.5 parts per million by volume (dry, corrected to 15% O₂). Performance will be confirmed with a continuous emissions monitoring system (CEMS).

176. **Condition # 233 for 6 NYCRR 231-2.7(b)** for VOC, the facility will demonstrate compliance with the VOC emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by performing an intermittent emission testing (a stack test). LAER is required.

177. **Condition # 234 for 6 NYCRR 231-2.7(b)** for NO_x, the facility will demonstrate compliance with the NO_x emission limit of 3.5 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by using a continuous emissions monitoring system (CEMS). LAER is required.

178. **Condition # 235 for 6 NYCRR 231-2.7(b)** for CO, the facility will demonstrate compliance with the CO emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by using a continuous emissions monitoring system (CEMS). LAER is required.

179. **Condition # 236 for 40 CFR 52.21(j), Subpart A** for Sulfur Dioxide, the facility will certify that the sulfur content limit of 0.0003 pounds per million Btus is in the "pipeline natural gas" from Consolidate Edison. This 0.0003 pounds per million Btus sulfur content limit is in the pipeline natural gas and is to be used in the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015). As a result, the sulfur dioxide emissions will be limited to 0.0006 pounds per million Btus. BACT is required.

180. **Condition # 237 for 40 CFR 52.21(j), Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.005 pounds per hour for the 131



MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015). Compliance will be demonstrated by performing an intermittent emission testing (a stack test). BACT is required.

181. **Condition # 238 for 40 CFR 52.21, Subpart A** for Sulfuric Acid, the facility will demonstrate compliance with the Sulfuric Acid emission limit of 0.000046 pounds per million Btus for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by performing an intermittent emission testing (a stack test). BACT is required.

182. **Condition # 239 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by performing an intermittent emission testing (a stack test). BACT is required.

183. **Condition # 240 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 15.0 milligrams per normal cubic meter (dry, corrected to 15% O₂) after stack testing for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by performing an intermittent emission testing (a stack test). BACT is required.

184. **Condition # 241 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂) for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with maximum heat input rating of 110.6 MM Btu/hr at minimum load (70%) burning natural gas (Process 015) by using a continuous emissions monitoring system (CEMS). BACT is required.

185. **Condition # 242 for 6 NYCRR 227-2.4(c)(1)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.1 pounds per million Btus for the 60.7 MM Btu/hr duct burner (Emission Control GTC06 in Emission Unit U-00006) operating on natural gas (Process 016) using the 24-hour average method and continuous emission monitoring.

186. **Condition # 243 for 6 NYCRR 227-2.6(b)** for Oxides of Nitrogen, the facility will demonstrate compliance with the NO_x emission limit of 0.1 pounds per million Btus for the 60.7 MM Btu/hr duct burner (Emission Control GTC06 in Emission Unit U-00006) operating on natural gas (Process 016) using a continuous emissions monitoring system (CEMS).

187. **Condition # 244 for 40 CFR 52.21(j), Subpart A** for PM-10, the facility will demonstrate compliance with the PM-10 emission limit of 0.01 pounds per million Btus after stack testing for the 60.7 MM Btu/hr duct burner (Emission Control GTC06 in Emission Unit U-00006) operating on natural gas (Process 016). BACT is required.

188. **Condition # 245 for 40 CFR 52.21(j), Subpart A** for Particulates, the facility will demonstrate compliance with the Particulates emission limit of 0.01 pounds per million Btus after stack testing for the 60.7 MM Btu/hr duct burner (Emission Control GTC06 in Emission Unit U-00006) operating on natural gas (Process 016). BACT is required.

189. **Condition # 246 for 40 CFR 52.21(j), Subpart A** for Ammonia, the facility will demonstrate compliance with the Ammonia emission limit of 10.0 parts per million by volume (dry, corrected to 15% O₂)



for the 60.7 MM Btu/hr duct burner (Emission Control GTC06 in Emission Unit U-00006) operating on natural gas (Process 016) by using a continuous emissions monitoring system (CEMS). BACT is required.

190. **Condition # 247 for 40 CFR 60.43c(e), NSPS Subpart Dc** for Sulfur Dioxide, the facility will demonstrate compliance with the Sulfur Dioxide emission limit for the 60.7 MM Btu/hr duct burner (Emission Control GTC06 in Emission Unit U-00006) in the natural gas process (Process 016) by maintaining the sulfur content limit of 0.03 pounds per million Btus in the “pipeline natural gas” from Consolidate Edison, which is less than 0.54 pounds per million Btus. .BACT is required.

191. **Condition # 248 for 40 CFR 60.47c(c), NSPS Subpart Dc** for Particulates, the facility will demonstrate compliance with the Particulates emission limit for the 60.7 MM Btu/hr duct burner (Emission Control GTC04 in Emission Unit U-00004) in the natural gas process (Process 016) by maintaining the sulfur content limit of 0.03 pounds per million Btus in the “pipeline natural gas” from Consolidate Edison, which is less than the 0.54 pounds per million Btus required by 40 CFR 60.47c(c), NSPS Subpart Dc. .BACT is required

192. **Condition # 252 for 6 NYCRR 227-1.2(a)(2)** for Particulates, the facility will demonstrate compliance with the 0.1 pounds per million BTUs for 131 MM Btu/hr the Siemens combustion turbine (Emission Source GT004 in Emission Unit U-00004) with a stack testing in accordance with 40 CFR Part 60, EPA Method 5.

193. **Condition # 253 for 227-1.2(a)(2)** for Particulates, the facility will demonstrate compliance with the 0.1 pounds per million BTUs for the duct burner (Emission Control GTC04 in Emission Unit U-00004) with a stack testing in accordance with 40 CFR Part 60, EPA Method 5.

194. **Condition # 254 for 6 NYCRR 227-1.2(a)(2)** for Particulates, the facility will demonstrate compliance with the 0.1 pounds per million BTUs for the 131 MM Btu/hr Siemens combustion turbine (Emission Source GT006 in Emission Unit U-00006) with a stack testing in accordance with 40 CFR Part 60, EPA Method 5.

195. **Condition # 255 for 227-1.2(a)(2)** for Particulates, the facility will demonstrate compliance with the 0.1 pounds per million BTUs for the duct burner (Emission Control GTC06 in Emission Unit U-00006) with a stack testing in accordance with 40 CFR Part 60, EPA Method 5.

New York State Department of Environmental Conservation



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