



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6205-00246/00005
Effective Date: 01/19/2010 Expiration Date: 01/18/2015

Permit Issued To: NEW YORK UNIVERSITY
70 WASHINGTON SQUARE SOUTH
NEW YORK, NY 10012-1019

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Facility: NYU CENTRAL PLANT
251 MERCER ST
NEW YORK, NY 10012

Description:

PERMIT DESCRIPTION
NYU Central Plant
DEC ID # 2-6205-00246/00005 (Ren 1)

The Central Power Plant at NYU provides electricity and high temperature hot water and steam for heating and cooling of university buildings year round. The permit consists of two emission units, 1-00000 and 2-00000. Emission Unit 1-00000, is located in the sub-basement of 251 Mercer Street, and Emission Unit 2-00000 is located in the sub-basement of 40 West 4th Street. The standard industrial classification (SIC) code for this facility is 8221 - Colleges and Universities.

Emission Unit 1-00000 produces hot water and steam using three, identical high temperature hot water boilers identified as Emission Sources 0BLRA, 0BLRB and 0BLRC, each rated at 65 MM BTU/hr. Each boiler is capable of burning natural gas (Process 001) and no. 6 residual fuel oil (Process 002). Emissions from the three boilers exhaust through a single emission point, a nine foot diameter stack on the roof of 251 Mercer Street identified as Emission Point 00001. A licensed operating engineer is on duty at all times. Historically, Emission Unit 1-00000 also contained a high pressure steam boiler, 0BLRD, rated at 114 MM BTU/hr, but as of January 1, 2009 this boiler is dismantled, removed and never to function again at NYU.



Emission Unit 2-00000 is comprised of seven identical Caterpillar D399 diesel reciprocating engine generators (with waste heat boilers) identified as ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 and ENG07 that produce electricity. Each diesel engine generator is 1,000 mechanical horsepower (850 KW). These seven diesel engine generators operate on diesel (Process 003), and their emissions exhaust through one common stack, identified as Emission Point 00002. Due to the engine generators nearing the end of their useful life cycles, New York University is making the following repowering changes expected to take effect June 30, 2010.

Emission Unit 1-00000: replace existing primary power-producing engine generators with new, state-of-the-art turbines (Emission Sources TURB1 & TURB2) and duct burners (Emission Sources/Controls DUCT1 & DUCT2) for electricity, and heat recovery and steam generation (HRSG); retire the 114 MMBtu/hr steam boiler (Emission Source 0BLRD); and accept an emissions cap on the three remaining boilers.

The two turbines are rated at 5.5 megawatt (MW) each, and the two duct burners are rated at 70 MM BTU/hr each. The facility's new electrical output will be approximately 11 MW from the two turbines (2 @ 5.5 MW = 11 MW), and 11 MW x 8,760 hours = 96,360 MWe-hrs.

Emission Unit 2-00000: the seven engine generators will serve as power producing back-up and will be designated to participate in the Special Case Resources (SCR) program of the New York Independent System Operator (NYISO) or any other demand response program. They will operate no more than 2,000 hours per seven engines combined per year upon plant repowering. The reassignment of the seven engines from primary power source will be simultaneous with repowering by the turbines, HRSGs and three reconfigured boilers (0BLRA, 0BLRB & 0BLRC).

On June 30, 2004 NYU submitted to NYSDEC Region 2 an Engine NO_x RACT Compliance and Operating Plan pursuant to 6 NYCRR 227 to maintain the then current 9.0 gm/bhp-hr (gram per brake horsepower-hour) NO_x emissions as Reasonably Available Control Technology for the seven diesel engine generators nearing the end of their useful lives, as a variance to the then newly implemented standard of 2.3 gm/bhp-hr, effective April 1, 2005.

The plan concluded that no NO_x control technologies were economically feasible for the generators and the facility seeks an economic variance (pursuant to Part 621, Uniform Procedures Act) from the then newly implemented regulation 6 NYCRR 227-2.4(f) for controlling NO_x, which required a plan in



place by July 1, 2004. The plan presented economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the diesel engines in view of the major repowering energy-saving, equipment replacement project.

The facility conducted NOx RACT stack testing in March 2002 at three different operating loads (low, medium and high) for each of the seven engine generators in Emission Unit 2-00000; all engines continued to meet the NOx RACT requirement of 9.0 gm/bhp-hr: NOx emissions ranged between 7.4 and 7.9 gm/bhp-hr. The issuance of this permit is the approval of the NOx RACT Variance Plan relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) for the seven engine-generators.

There are no criteria or regulated pollutant emission increases, only emission decreases; netting analysis shows significant facility emission reductions. Prevention of Significant Deterioration (PSD) and New Source Review (NSR) regulations are not applicable to this repowering project, which is anticipated to have the following major annual emission reductions (tons per year, tpy) for the facility:

Contaminant	Existing PTE	Proposed Limits	Emissions Reductions	Reduction
NOx	465	159	306	66%
SO2	115	33	82	71%
CO	147	129	18	12%
VOC	13	9	4	31%
PM	31	13	18	58%
PM-10	24	8	16	67%

The turbines will operate on natural gas (Process 004) and no. 2 distillate fuel oil (Process 005).

Maximum possible emissions for the two turbines are based on combusting no. 2 fuel oil for 8,760 hours per year. Potential to emit (PTE) for the two turbines [combined] is based on the heat content equivalent of combusting 9 months of natural gas and 3 months of no. 2 fuel oil, not precluding any mixture of gas and oil that does not exceed emissions caps or any pertinent regulation. Field testing



the turbines will confirm their ability to run between 100% load and 52% load. The two combustion turbines are identical and each is rated approximately 60.5 MM Btu/hr.

The duct burners will combust only natural gas (Process 004) and their maximum possible emissions are equivalent to the PTE based on 8,760 hours per year. The duct burners are 70 MM Btu/hr each and 20 MM Btu/hr of that heat input is provided by the turbines; thus duct burner fuel is not required for this fraction of heat input. Since the duct burners will never operate by themselves without the turbines, PTE NO_x for both HRSG duct burners operating only on natural gas is 47.30 tpy. The combined turbines will have a NO_x PTE of 56.93 tpy, and thus the two combined turbine/HRSG duct burner pairs will have a NO_x PTE of 104.23 tpy.

NYU boilers normally operate at mid loads using natural gas (Process 001) and #6 residual fuel oil (Process 002), and 2005 boiler stack testing was performed in compliance at high, mid and low load heat inputs. PTE for the new boiler configuration is based on mid-load burning using the heat content and emission equivalent of 9 months of natural gas and 3 months of # 6 fuel oil, with a self-imposed cap of emissions equivalent to 2 boilers at mid-load (40.4 tpy NO_x).

The existing continuous opacity monitoring system (COMS) will remain for voluntary monitoring of the Emission Point 00001 stack. The existing COMS on Emission Point 00002 will also remain for voluntary monitoring the (diesel, Process 003) seven engines. NYU historically has maintained COMS compliance.

PM-2.5 is set equal to PM-10 in accordance with NYSDEC Policy CP-33 for assessing and mitigating fine particulate matter.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2 (c), including seven storage tanks (<10,000 gallons capacity), of which 3 tanks contain waste oil, 1 tank contains lube oil, and the other 3 tanks contain distillate and residual fuel oil.

The Title V permit contains a complete listing of the applicable federal and state compliance monitoring requirements for the facility, its emission units, its emission points, its processes and its emission sources/controls. NYU Central Power Plant is subject to the provisions of Title V specified under 6 NYCRR 201-6 in addition to the following regulations and conditions that will all initiate upon repowering:



Condition #24 for 6 NYCRR 201-6.5(c) for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the facility's NOx emissions will not exceed 159 tpy.

Condition #27 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2 for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the NOx PTE for the two combined turbine/ HRSG duct burners pairs will not exceed 104.23 tpy.

Condition #28 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2 for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the seven identical reciprocating diesel engine generators will be delegated to participate in a demand response program, and will be capped at an overall 2,000 hours of operation and 13.9 tpy of NOx for the combined seven engines.

Condition #29 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2 for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the NOx PTE for the two new turbines will not exceed 56.93 tpy.

Condition #30 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2 for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the seven identical reciprocating diesel engine generators will be delegated to participate in a demand response program, and will be capped at an overall 2,000 hours of operation for the combined seven engines.

Condition #31 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2 for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, Boilers 0BLRA, 0BLRB and 0BLRC will have a 40.4 tpy NOx emission cap equivalent to the PTE emissions of two of the identical boilers.

Condition #32 for 6 NYCRR 225-1.2(a)(2): Facility distillate fuel oil is limited to 0.20% sulfur content by weight.

Condition #33 for 6 NYCRR 225-1.2(a)(2): Facility #6 residual fuel oil is limited to 0.30 % sulfur content by weight.

Condition #35 for 6 NYCRR 225.1(a)(3): Facility #2 distillate fuel oil is limited to 0.20% sulfur content by weight.

Condition #36 for 6 NYCRR 225.1(a)(3): Facility #6 residual fuel oil is limited to 0.30 % sulfur content by weight.



Condition #38 for 6 NYCRR 227-1.3 for Particulates: Upon repowering with the two new turbines, scheduled for 6/30/2010, their opacity will be limited to 20% except for one six minute period per hour, not to exceed 27%, based upon the six minute average.

Condition #39 for 6 NYCRR 227-1.3 for Opacity: If any visible emissions are observed two consecutive days, then the facility must conduct a Method 9 analysis of the affected emission point(s) within two (2) business days of such occurrence.

Condition # 45 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven identical diesel engine generators with waste heat boilers at the plant, will be delegated to participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, scheduled for 6/30/2010, and will operate no more than 2,000 hours/7 engines/year and are limited to 13.9 tpy of NOx emission.

Condition #46 for 6 NYCRR 227-2.5(c) for Oxides of Nitrogen: Per the approved NOx RACT Variance, each of the seven identical reciprocating diesel engine generators is allowed to emit up to 9.0 grams per brake horsepower-hour.

Condition #48 for 40 CFR 60.4340, NSPS Subpart KKKK for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the NOx emission limit for each of the two turbines will be 74 ppm at 15% O2 firing fuels other than natural gas, where stack testing is required for compliance.

Condition #49 for 40 CFR 60.4340, NSPS Subpart KKKK for Oxides of Nitrogen: Upon repowering with the two new turbines, scheduled for 6/30/2010, the NOx emission limit for each of the two turbines will be 25 ppm at 15% O2 firing natural gas, where stack testing is required for compliance.

Condition #50 for 40 CFR 60.4365(a), NSPS Subpart KKKK for Sulfur Dioxide: Sulfur content in #2 fuel oil combusting in the two new combustion turbines is limited to 0.05% sulfur by weight. This is equivalent to 500 ppm by weight, and 0.06 lbs per million BTU of heat input.

Condition #51 for 40 CFR 60.4365(a), NSPS Subpart KKKK for Sulfur Dioxide: Sulfur content in the natural gas combusting in the two new turbines is limited to 0.05% sulfur by weight. This is equivalent to 20 grains per 100 scf,



and 0.06 lbs per million BTU of heat input.

Condition #54 for 6 NYCRR 227-1.2(a)(1) for Particulates: The particulate emission limit for a stationary combustion installation ducted through a common stack, firing liquid fuels, and having a heat capacity exceeding 250 MM Btu/hr is limited to 0.10 pounds per million Btus. This condition applies to Emission Unit 1-00000, Emission Point 00001, Process 005 for the two new turbines, and Process 002 for the reconfigured three boilers, where stack testing is required for compliance.

Condition #55 for 6 NYCRR 227-1.3(a) for Particulates: Upon repowering with the two new turbines, scheduled for 6/30/2010, the opacity will be limited to 20% at Emission Point 00001 when firing #2 fuel oil.

Condition #58 for 6 NYCRR 227.2(b)(1) for Particulates: The particulate emission limit from any stationary combustion installation ducted through a common stack, which fires liquid fuels, is limited to 0.10 pounds per million Btus. This condition applies to Emission Unit 1-00000, Emission Point 00001 when firing residual oil for the three boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC), where stack testing is required for compliance.

Condition #59 for 6 NYCRR 227-2.4(c)(2) for Oxides of Nitrogen: The NO_x emission limit for mid-size boilers where stack testing is required for compliance is 0.10 pounds per million Btus. This condition applies to Boiler 0BLRA when firing natural gas.

Condition #60 for 6 NYCRR 227-2.4(c)(2) for Oxides of Nitrogen: The NO_x emission limit for mid-size boilers where stack testing is required for compliance is 0.10 pounds per million Btus. This condition applies to Boiler 0BLRB when firing natural gas.

Condition #61 for 6 NYCRR 227-2.4(c)(2) for Oxides of Nitrogen: The NO_x emission limit for mid-size boilers where stack testing is required for compliance is 0.10 pounds per million Btus. This condition applies to Boiler 0BLRC when firing natural gas.

Condition #62 for 6 NYCRR 227-1.3 for Opacity: If any visible emissions are observed two consecutive days from the boilers stack, then the facility must conduct a Method 9 analysis of the affected emission point(s) within two (2) business days of such occurrence.

Condition #63 for 6 NYCRR 227-1.3(a) for Opacity: The opacity will be



limited to 20% at Emission Point 00001 when the boilers are firing #2 fuel oil.

Condition #64 for 6 NYCRR 227.2(b)(1) for Particulates: The particulate emission limit at Emission Point 00001 is limited to 0.10 pounds per million Btus when firing # 2 fuel oil in the boilers, where stack testing is required for compliance.

Condition #65 for 6 NYCRR 227-2.4(c)(2) for Oxides of Nitrogen: The NO_x emission limit for mid-size boilers where stack testing is required for compliance is 0.30 pounds per million Btus. This condition applies to Boiler OBLRA when firing residual oil.

Condition #66 for 6 NYCRR 227-2.4(c)(2) for Oxides of Nitrogen: The NO_x emission limit for mid-size boilers where stack testing is required for compliance is 0.30 pounds per million Btus. This condition applies to Boiler OBLRB when firing residual oil.

Condition #67 for 6 NYCRR 227-2.4(c)(2) for Oxides of Nitrogen: The NO_x emission limit for mid-size boilers where stack testing is required for compliance is 0.30 pounds per million Btus. This condition applies to Boiler OBLRC when firing residual oil.

Condition #68 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 combined turbine Emission Source TURB1 burning natural gas with its associated HRSG duct burner Emission Control DUCT1, where stack testing is required for compliance.

Condition #78 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 25.0 ppmvd at 15 % O₂ for the combined turbine Emission Source TURB1 burning natural gas with its associated HRSG duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #79 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 combined turbine Emission Source TURB2 burning natural gas with its associated HRSG duct burner Emission Source/Control DUCT2, where stack testing is required for compliance.

Condition #89 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of



25.0 ppm at 15 % O₂ for the combined combustion turbine Emission Source TURB2 burning natural gas with its associated HRSG duct burner Emission Control DUCT2, where stack testing is required for compliance.

Condition #90 for 6 NYCRR 227-2.4(e)(2) for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for turbine Emission Source TURB1 burning natural gas without its associated duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #91 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 turbine Emission Source TURB1 burning natural gas without its HRSG duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #101 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will perform annual NO_x stack testing to demonstrate compliance with the NSPS Stationary Combustion Turbine NO_x emission limit of 25.0 ppmvd by volume at 15% O₂ when firing gas in turbine Emission Source TURB1 without its associated HRSG duct burner Emission Source/Control DUCT1.

Condition #103 for 6 NYCRR 227-2.4(e)(2) for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 42.0 ppmvd for turbine Emission Source TURB2 burning natural gas without its associated duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #104 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 turbine Emission Source TURB2 burning natural gas without its associated HRSG duct burner Emission Source/Control DUCT2, where stack testing is required for compliance.

Condition #114 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will perform annual NO_x stack testing to demonstrate compliance with the NSPS Stationary Combustion Turbine NO_x emission limit of 25.0 ppmvd by volume at 15% O₂ when firing gas in turbine Emission Source TURB2 without its associated HRSG duct burner Emission Source/Control DUCT2 burning natural gas.



Condition #116 for 6 NYCRR 227-1.3(a): Upon repowering with the two new turbines, scheduled for 6/30/2010, the opacity will be limited to 20% at Emission Point 00001 when firing #2 fuel oil in the turbines.

Condition #117 for 6 NYCRR 227.2(b)(1) for Particulates: Upon repowering with the two new turbines, scheduled for 6/30/2010, the particulate emission limit at Emission Point 00001 is limited to 0.10 pounds per million Btus when firing # 2 fuel oil in the turbines, where stack testing is required for compliance.

Condition #118 for 40 CFR 60.45c(a), NSPS Subpart Dc for Particulates: Upon repowering, the two new turbines and their corresponding HRSG duct burners require stack testing to demonstrate compliance with the 20% opacity limit at Emission Point 00001 when the turbines fire # 2 fuel oil.

Condition #119 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 combined turbine Emission Source TURB1 burning #2 fuel oil with its associated HRSG duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #120 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 74.0 ppmvd for turbine Emission Source TURB1 burning #2 fuel oil with its associated HRSG duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #121 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 combined turbine Emission Source TURB2 burning #2 fuel oil with its associated HRSG duct burner Emission Source/Control DUCT2, where stack testing is required for compliance.

Condition #122 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 74.0 ppmvd for turbine Emission Source TURB2 burning #2 fuel oil with its associated HRSG duct burner Emission Source/Control DUCT2, where stack testing is required for compliance.

Condition #123 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 combined turbine Emission Source TURB1 burning #2 fuel oil without its associated HRSG duct burner Emission Source/Control DUCT1, where stack



testing is required for compliance.

Condition #134 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 74.0 ppmvd for turbine Emission Source TURB1 burning #2 fuel oil without its associated HRSG duct burner Emission Source/Control DUCT1, where stack testing is required for compliance.

Condition #135 for 40 CFR 60.4330, NSPS Subpart KKKK for Sulfur Dioxide: For each fuel delivery, the sulfur content of the #2 fuel oil to be burned in turbine Emission Source TURB1 has a limit of 500 ppm (0.05% by weight). This is equivalent to 0.060 pounds per million Btus.

Condition #136 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 combined turbine Emission Source TURB2 burning #2 fuel oil without its associated HRSG duct burner Emission Source/Control DUCT2, where stack testing is required for compliance.

Condition #147 for 40 CFR 60.4325, NSPS Subpart KKKK for Oxides of Nitrogen: The facility will demonstrate compliance with the NO_x standard of 74.0 ppmvd for turbine Emission Source TURB2 burning #2 fuel oil without its associated HRSG duct burner Emission Source/Control DUCT2, where stack testing is required for compliance.

Condition #148 for 40 CFR 60.4330, NSPS Subpart KKKK for Sulfur Dioxide: For each fuel delivery, the sulfur content of the #2 fuel oil to be burned in turbine Emission Source TURB2 has a limit of 500 ppm (0.05% by weight). This is equivalent to 0.060 pounds per million Btus.

Condition #150 for 6 NYCRR 227-1.3 for Particulates: The opacity any of the seven identical reciprocating diesel engine generators will be limited to 20% except for one six minute period per hour, not to exceed 27%, based upon the six minute average.

Condition #151 for 6 NYCRR 227-1.3 for Opacity: If any visible emissions are observed on two consecutive days from the diesel engine generators stack, then the facility must conduct a Method 9 analysis of the affected emission point(s) within two (2) business days of such occurrence.

Condition #152 for 6 NYCRR 227-1.3(a) for Opacity: Opacity will be limited to 20% at Emission Point 00002 when firing #2 fuel oil in any of the seven



identical reciprocating diesel engine generators in Emission Unit 2-00000.

Condition #153 for 6 NYCRR 227.2(b)(1) for Particulates: The particulate emission limit for any of the seven identical reciprocating diesel engine generators in Emission Point 00002 is limited to 0.10 pounds per million Btus, when firing # 2 fuel oil, where a stack testing is required for compliance.

Condition #154 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For diesel engine generator identified as Emission Source ENG01, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

Condition #155 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG01 to demonstrate compliance with the approved NO_x RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NO_x emission limit, once during the term of the permit.

Condition #156 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For diesel engine generator identified as Emission Source ENG02, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

Condition #157 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG02 to demonstrate compliance with the approved NO_x RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NO_x emission limit, once during the term of the permit.

Condition #158 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For



diesel engine generator identified as Emission Source ENG03, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

Condition #159 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG03 to demonstrate compliance with the approved NOx RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NOx emission limit, once during the term of the permit.

Condition #160 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For diesel engine generator identified as Emission Source ENG04, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

Condition #161 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG04 to demonstrate compliance with the approved NOx RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NOx emission limit, once during the term of the permit.

Condition #162 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For diesel engine generator identified as Emission Source ENG05, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.



Condition #163 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG05, to demonstrate compliance with the approved NOx RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NOx emission limit, once during the term of the permit.

Condition #164 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For diesel engine generator identified as Emission Source ENG06, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

Condition #165 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG06 to demonstrate compliance with the approved NOx RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NOx emission limit, once during the term of the permit.

Condition #166 for 6 NYCRR 227-2.4(f)(2) for Oxides of Nitrogen: For diesel engine generator identified as Emission Source ENG07, NYU will continue to maintain its normal engine-maintenance compliance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change.
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

Condition #167 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: The facility is required to conduct stack testing on diesel engine generator identified as Emission Source ENG07 to demonstrate compliance with the approved NOx RACT Compliance Plan variance of 9.0 grams per brake horsepower-hour NOx emission limit, once during the term of the permit.

Condition #172 for 6 NYCRR 227-1.4(a) for Particulates: Opacity is limited to 20% at Emission Point 00001 in Emission Unit 1-00000.



By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: JOHN F CRYAN
 NYSDEC
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5407

Authorized Signature: _____ Date: ____ / ____ / _____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
 - Applications for permit renewals, modifications and transfers
 - Permit modifications, suspensions or revocations by the Department
 - Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal - REGION
2 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be



submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Condition 5: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 5.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**** Facility Level ****

Condition 6: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 6.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 482-4997

New York State Department of Environmental Conservation

Permit ID: 2-6205-00246/00005

Facility DEC ID: 2620500246



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: NEW YORK UNIVERSITY
70 WASHINGTON SQUARE SOUTH
NEW YORK, NY 10012-1019

Facility: NYU CENTRAL PLANT
251 MERCER ST
NEW YORK, NY 10012

Authorized Activity By Standard Industrial Classification Code:
8221 - COLLEGES AND UNIVERSITIES, NEC

Permit Effective Date: 01/19/2010

Permit Expiration Date: 01/18/2015



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.5 (a) (7): Fees
- 3 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 4 6 NYCRR 201-6.5 (c) (2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.5 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR Part 215: Open Fires Prohibited at Industrial and Commercial Sites
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.5 (a) (4): Standard Requirement - Provide Information
- 16 6 NYCRR 201-6.5 (a) (8): General Condition - Right to Inspect
- 17 6 NYCRR 201-6.5 (d) (5): Standard Requirements - Progress Reports
- 18 6 NYCRR 201-6.5 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 6 NYCRR 211.3: Visible Emissions Limited
- 21 40 CFR Part 68: Accidental release provisions.
- 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR Subpart 201-6: Emission Unit Definition
- 24 6 NYCRR 201-6.5 (c): Compliance Certification
- 25 6 NYCRR 201-6.5 (g): Non Applicable requirements
- 26 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *27 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *28 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *29 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *30 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *31 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 32 6 NYCRR 225-1.2 (a) (2): Compliance Certification
- 33 6 NYCRR 225-1.2 (a) (2): Compliance Certification
- 34 6 NYCRR 225-1.8: Compliance Certification
- 35 6 NYCRR 225.1 (a) (3): Compliance Certification
- 36 6 NYCRR 225.1 (a) (3): Compliance Certification
- 37 6 NYCRR 225.7 (a): Compliance Certification
- 38 6 NYCRR 227-1.3: Compliance Certification
- 39 6 NYCRR 227-1.3: Compliance Certification
- 40 6 NYCRR 227-1.4 (b): Compliance Certification
- 41 6 NYCRR 227-1.6 (a): Compliance Certification
- 42 6 NYCRR 227-1.6 (b): Corrective action.



- 43 6 NYCRR 227-1.6 (c): Corrective action.
- 44 6 NYCRR 227-1.6 (d): Corrective action.
- 45 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 46 6 NYCRR 227-2.5 (c): Compliance Certification
- 47 40CFR 60.4305, NSPS Subpart KKKK: Compliance Certification
- 48 40CFR 60.4340, NSPS Subpart KKKK: Compliance Certification
- 49 40CFR 60.4340, NSPS Subpart KKKK: Compliance Certification
- 50 40CFR 60.4365(a), NSPS Subpart KKKK: Compliance Certification
- 51 40CFR 60.4365(a), NSPS Subpart KKKK: Compliance Certification

Emission Unit Level

- 52 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 53 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=1-00000,EP=00001

- 54 6 NYCRR 227-1.2 (a) (1): Compliance Certification
- 55 6 NYCRR 227-1.3 (a): Compliance Certification
- 56 6 NYCRR 227-1.4 (b): Compliance Certification
- 57 6 NYCRR 227-2.5 (a): Conditions developed to implement the fuel switching option should be entered here.
- 58 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=1-00000,EP=00001,Proc=001,ES=0BLRA

- 59 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=1-00000,EP=00001,Proc=001,ES=0BLRB

- 60 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=1-00000,EP=00001,Proc=001,ES=0BLRC

- 61 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=1-00000,EP=00001,Proc=002

- 62 6 NYCRR 227-1.3: Compliance Certification
- 63 6 NYCRR 227-1.3 (a): Compliance Certification
- 64 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=1-00000,EP=00001,Proc=002,ES=0BLRA

- 65 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=1-00000,EP=00001,Proc=002,ES=0BLRB

- 66 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=1-00000,EP=00001,Proc=002,ES=0BLRC

- 67 6 NYCRR 227-2.4 (c) (2): Compliance Certification

EU=1-00000,EP=00001,Proc=004,ES=DUCT1

- 68 6 NYCRR 227-2.4 (e) (2) (i): Compliance Certification
- 69 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 70 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 71 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 72 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 73 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver EU



Level

- 74 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 75 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 76 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 77 40CFR 60.9, NSPS Subpart A: Availability of information.
- 78 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification

EU=1-0000,EP=00001,Proc=004,ES=DUCT2

- 79 6 NYCRR 227-2.4 (e) (2) (i): Compliance Certification
- 80 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 81 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 82 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 83 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 84 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver EU

Level

- 85 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 86 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 87 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 88 40CFR 60.9, NSPS Subpart A: Availability of information.
- 89 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification

EU=1-0000,EP=00001,Proc=004,ES=TURB1

- 90 6 NYCRR 227-2.4 (e) (2): Compliance Certification
- 91 6 NYCRR 227-2.4 (e) (2) (i): Compliance Certification
- 92 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 93 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 94 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 95 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 96 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver EU

Level

- 97 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 98 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 99 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 100 40CFR 60.9, NSPS Subpart A: Availability of information.
- 101 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification
- 102 40CFR 60.4340(a), NSPS Subpart KKKK: Compliance Certification

EU=1-0000,EP=00001,Proc=004,ES=TURB2

- 103 6 NYCRR 227-2.4 (e) (2): Compliance Certification
- 104 6 NYCRR 227-2.4 (e) (2) (i): Compliance Certification
- 105 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 106 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 107 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 108 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 109 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver

EU Level

- 110 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 111 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 112 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 113 40CFR 60.9, NSPS Subpart A: Availability of information.
- 114 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification
- 115 40CFR 60.4340(a), NSPS Subpart KKKK: Compliance Certification



EU=1-00000,EP=00001,Proc=005

- 116 6 NYCRR 227-1.3 (a): Compliance Certification
- 117 6 NYCRR 227.2 (b) (1): Compliance Certification
- 118 40CFR 60.45c(a), NSPS Subpart Dc: Compliance Certification

EU=1-00000,EP=00001,Proc=005,ES=DUCT1

- 119 6 NYCRR 227-2.4 (e) (2) (ii): Compliance Certification
- 120 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification

EU=1-00000,EP=00001,Proc=005,ES=DUCT2

- 121 6 NYCRR 227-2.4 (e) (2) (ii): Compliance Certification
- 122 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification

EU=1-00000,EP=00001,Proc=005,ES=TURB1

- 123 6 NYCRR 227-2.4 (e) (2) (ii): Compliance Certification
- 124 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 125 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.
- 126 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 127 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 128 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 129 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver EU Level
- 130 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 131 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 132 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 133 40CFR 60.9, NSPS Subpart A: Availability of information.
- 134 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification
- 135 40CFR 60.4330, NSPS Subpart KKKK: Compliance Certification

EU=1-00000,EP=00001,Proc=005,ES=TURB2

- 136 6 NYCRR 227-2.4 (e) (2) (ii): Compliance Certification
- 137 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 138 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.
- 139 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 140 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 141 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 142 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver EU Level
- 143 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 144 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 145 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 146 40CFR 60.9, NSPS Subpart A: Availability of information.
- 147 40CFR 60.4325, NSPS Subpart KKKK: Compliance Certification
- 148 40CFR 60.4330, NSPS Subpart KKKK: Compliance Certification

EU=2-00000,EP=00002

- 149 6 NYCRR 227-1.4 (b): Compliance Certification



EU=2-00000,EP=00002,Proc=003

- 150 6 NYCRR 227-1.3: Compliance Certification
- 151 6 NYCRR 227-1.3: Compliance Certification
- 152 6 NYCRR 227-1.3 (a): Compliance Certification
- 153 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG01

- 154 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 155 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG02

- 156 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 157 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG03

- 158 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 159 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG04

- 160 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 161 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG05

- 162 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 163 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG06

- 164 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 165 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

EU=2-00000,EP=00002,Proc=003,ES=ENG07

- 166 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 167 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 168 ECL 19-0301: Contaminant List
- 169 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 170 6 NYCRR 201-5.3 (b): Compliance Demonstration
- 171 6 NYCRR 211.2: Air pollution prohibited

Emission Unit Level

EU=1-00000,EP=00001

- 172 6 NYCRR 227-1.4 (a): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Emergency Defense - 6 NYCRR 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 - 6 NYCRR 201-1.10 (b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.



Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 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 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 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 201-6.5 (a) (3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 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 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 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 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 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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 200.6

Item 1.1:

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0302.

Condition 3: Recordkeeping and reporting of compliance monitoring
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (c)

Item 3.1:



The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

Condition 4: Monitoring, Related Recordkeeping, and Reporting Requirements.

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 5: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum



frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A



written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2010.
Subsequent reports are due every 6 calendar month(s).



Condition 6: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 201-6.5 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to

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the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2011.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:
The Compliance Certification activity will be performed for the Facility.

Item 7.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251



effectively.

Condition 11: Recycling and Salvage
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

No person shall unnecessarily remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

The owner and/or operator of an emission source or unit that is eligible to be exempt may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source 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 which contains 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.

Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source 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 which contains 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.



Condition 15: Standard Requirement - Provide Information
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (4)

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: General Condition - Right to Inspect
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 17: Standard Requirements - Progress Reports
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (d) (5)

Item 17.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

- (i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- (ii) an explanation of why any dates in the schedule of compliance were not or will not be met,



and any preventive or corrective measures adopted.

Condition 18: Off Permit Changes
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (f) (6)

Item 18.1:

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.6 shall not apply to any change made pursuant to this paragraph.

Condition 19: Required Emissions Tests
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 19.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time. Such person shall bear the cost of measurement and preparing the report of measured emissions. Failure of such person to submit a report acceptable to the commissioner within the time stated shall be sufficient reason for the commissioner to suspend or deny a certificate to operate.

Condition 20: Visible Emissions Limited
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 211.3

Item 20.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 21: Accidental release provisions.



cooling of university buildings year round. Emission Unit 1-00000 located in the sub-basement of 251 Mercer Street, is part of the Central Plant and currently has three identical mid size high temperature hot water boilers of 65 MM Btu/hr each (Emission Sources 0BLRA, 0BLRB & 0BLRC) used for hot water. A 114 MM Btu/hr high pressure steam boiler (Boiler D - Emission Source 0BLRD) was removed from the facility on 1/1/2009. Each boiler is capable of burning natural gas (Process 001) and # 6 fuel oil - residual fuel oil (Process 002). Emissions from the three boilers are exhausted through a single emission point, a nine foot diameter stack on the roof of 251 Mercer Street, identified as Emission Point 00001. A licensed operating engineer is on duty at all times.

Upon repowering, the plant will add two new 5.5 MW gas turbines (Emission Sources TURB1 & TURB2) burning natural gas (Process 004) and # 2 fuel oil (Process 005), and two new 70 MM Btu/hr duct burners (Emission Controls DUCT1 & DUCT2) fueled by natural gas (Process 004) for cogeneration with the two turbines. The facility's new electrical output will be approximately 11 MW from the two turbines (2 @ 5.5 MW = 11 MW), or 11 MW x 8,760 hours = 96,360 MWe-hrs. The two combustion turbines are identical, and each is approximately 60.5 MM Btu/hr. Emissions from the two turbines will co-exhaust with the boilers through the same single emission point identified as Emission Point 00001.

The two new 5.5 MW gas turbines (Emission Sources TURB1 & TURB2), and their two corresponding new 70 MM Btu/hr duct burners (Emission Controls DUCT1 & DUCT2; respectively) for cogeneration with the two turbines are scheduled to begin operating on 6/30/2010.

Per 6 NYCRR 227-1.4, COMS is required on combustion sources exceeding 250 MMBtu/hr heat input, excluding gas turbines. Heat input at Emission Point 00001 from the small boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) @ 65 MMBtu/hr each total 195 MMBtu/hr (< 250 MMBtu/hr), therefore COMS is not required.

The existing continuous opacity monitoring system (COMS) unit will voluntarily remain on the stack of Emission Point 00001 since total heat input for the combustion sources (excluding gas turbines) is <250 MM Btu/hr threshold and COMS is not required by opacity regulation 6 NYCRR 227-1.3(a).

Building(s): 251

Item 23.2:

The facility is authorized to perform regulated processes under this permit for:



Emission Unit: 2-00000

Emission Unit Description:

Emission Unit 2-00000, located in the sub-basement of 40 West 4th Street, consists of seven identical Caterpillar D399 diesel engine electricity generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) with waste heat boilers. Each diesel engine generator is 1,000 mechanical horsepower (850 KW). These seven diesel engine generators operate on diesel oil - distillate oil (Process 003), and their emissions exhaust through one common stack, identified as Emission Point 00002.

Upon repowering with the two new turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (Emission Controls DUCT1 & DUCT2; respectively), scheduled for 6/30/2010, all of the seven identical diesel engine generators may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program beginning 6/30/2010, and will operate no more than 2,000 hours/7 engines/year. The date provided in the source identification for closure is for capping at lower emission limits.

The existing COMS at Emission Point 00002 for the seven engines in Emission Unit 2-00000 will remain at the facility. This COMS is voluntary since the emission unit does not meet the 250 MMBtu/hr heat input threshold of the regulation governing COMS. NYU will voluntarily use COMS at Emission Point 00002, and all issues that would ordinarily be applicable such as maintenance, reporting and recordkeeping will be voluntarily performed. NYU historically has maintained COMS compliance.

Building(s): 40

Condition 24: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c)

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Item 24.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Upon repowering with the two new turbines (Emission Sources TURB1 & TURB2), scheduled for 6/30/2010, the facility's NOx emissions will not exceed 158.5 tpy. Computerized records, will be kept on file, that calculate emissions based on equipment manufacturer's emissions factors, stack test results, and EPA emission factors.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 158.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 25: Non Applicable requirements

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 201-6.5 (g)

Item 25.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

6 NYCRR 227-1.2 (a)

Emission Unit: 200000 Emission Point: 00002 Process: 003

Reason: Regulation 6 NYCRR 227-1.2(a) for current stationary combustion installation firing liquid fuel for Particulate emissions limit of 0.1/0.2 lb/MM Btus is not applicable to the seven engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000 and Emission Point 00002 and Process 003 (# 2 fuel oil).

Each of the seven identical Caterpillar D399 diesel engine



generators in Emission Unit 2-00000 (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) is 1,000 mechanical horsepower (850 KW). The total combined heat input from all seven engine generators is:

$$7 \times (850 \text{ KW}) \times (3,413 \text{ BTU/hr} / 1 \text{ KW}) \times (1 \text{ MM BTU} / 1,000,000 \text{ BTU}) = 20.307 \text{ MM BTU/hr}$$

which is < 250 MM Btu/hr heat input applicability for 6 NYCRR 227-1.2(a)(1), and < 50 MM Btu/hr heat input applicability for 6 NYCRR 227-1.2(a)(2) from any stationary combustion installation using any liquid fuel.

6 NYCRR 227-1.4 (a)

Emission Unit: 200000 Emission Point: 00002

Reason: Regulation 6 NYCRR 227-1.4(a) for continuously monitoring and recording opacity is not applicable to the seven identical Caterpillar D399 diesel engine generators (Emission Sources GEN01, GEN02, GEN03, GEN04, GEN05, GEN06 & GEN07) in Emission Unit 2-00000, Emission Point 00002, and Process 003 (# 2 fuel oil). Each engine generator has a heat input of 850 KW.

The total combined heat input from all the seven engine generators is:

$$7 \times 850 \text{ KW} \times 3,413 \text{ Btu/hr} \times (1 \text{ MM Btu/hr} / 1,000,000 \text{ Btu/hr}) = 20.307 \text{ MM Btu/hr}$$

which is < 250 MM Btu/hr heat capacity applicability for 6 NYCRR 227-1.4(a) from any stationary combustion installation using any liquid fuel.

Therefore, installation and operation with the opacity manufacturer's instruction, and proper maintenance of continuously monitoring and recording opacity at all times, that the stationary combustion installation firing liquid fuel is in service, satisfying the criteria in Appendix B of Title 40, Part 60 of the Code of Federal Regulations, is not applicable to these seven identical engine generators.

6 NYCRR Subpart 231-2

Reason: New Source Review (NSR), 6 NYCRR 231-2 for NOx, CO and

VOC

is not applicable to this repowering project because this project is not a major modification and it does not cause a significant increase. The netting analysis shows only emissions reductions. As a result, the repowering project is anticipated to have the following major annual reductions in emissions of national ambient air criteria and regulated pollutants:



NOx - 306 tons (66% reduction from 465 tons),

CO - 18 tons (12% reduction from 147 tons),

VOC - 4 tons (31% reduction from 13 tons).

The contaminants shown below will undergo only significant reductions relative to the plant baseline. There are no emissions increases in any of the contaminants. Netting analysis shows no applicability to New Source Review (NSR) or Prevention of Significant Deterioration (PSD) since all contaminants undergo reduction.

Pollutant	Existing PTE	Proposed PTE	Reductions
NOx tpy	465 tpy	159 tpy	306
SO2 tpy	115 tpy	33 tpy	82
CO tpy	147 tpy	129 tpy	18
VOC tpy	13 tpy	9 tpy	4
PM tpy	31 tpy	13 tpy	18
PM-10 tpy	24 tpy	8 tpy	16

Since this repowering project does not result in a significant emission increase (it results only in a significant emission decrease) nor does it result in a significant net emissions increase, therefore; the two new turbines (Emission Sources TURB1 & TURB2) and the two duct burners (DUCT1 & DUCT2) are not subject or required to meet the required emission limits for LAER for NOx, CO or VOC.

6 NYCRR 231-2.2

Emission Unit: 100000

Reason: Due to the Repowering project with the two new turbines (Emission Sources TURB1 & TURB2), the emissions facility wide and for Emission Unit 1-00000: There are no criteria or regulated pollutant emission increases. Netting analysis shows a significant facility emissions reduction.

Thus, non-attainment New Source Review (NNSR), 6 NYCRR 231-2 is not applicable.

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40 CFR 52.21

Emission Unit: 100000

Reason: Due to the Repowering project with the two new turbines (Emission Sources TURB1 & TURB2), the emissions facility wide & within Emission Unit 1-00000: There are no criteria or regulated pollutant emission increases.

Netting analysis shows a significant facility emissions reduction. Thus, Prevention of Significant Deterioration (PSD) is not applicable.

40 CFR 60.40c (a)

Emission Unit: 100000 Emission Point: 00001 Process: 001

Reason: Since existing Boilers 0BLRA, 0BLRB and 0BLRC, which have a heat rating > 10 MM Btu/hr and < 100 MM Btu/hr), and were constructed before June 9, 1989, therefore; Regulation 40 CFR 60 Dc. 40c(a) is not applicable.

40 CFR 60.40c (a)

Emission Unit: 100000 Emission Point: 00001 Process: 004 Source:

DUCT1

Reason: Heat Recovery Steam Generators (HRSG) that are associated with combined cycle gas turbines and meet the applicability of NSPS Subpart KKKK are not subject to Subpart Dc.

40 CFR 60.40c (a)

Emission Unit: 100000 Emission Point: 00001 Process: 004 Source:

DUCT2

Reason: Heat Recovery Steam Generators (HRSG) that are associated with combined cycle gas turbines and meet the applicability of NSPS Subpart KKKK are not subject to Subpart Dc.

40 CFR 60.40c (a)

Emission Unit: 100000 Emission Point: 00001 Process: 002

Reason: Since existing Boilers 0BLRA, 0BLRB and 0BLRC, which have a heat rating > 10 MM Btu/hr and < 100 MM Btu/hr, and were constructed before June 9, 1989, therefore; Regulation 40 CFR 60-Dc.40c(a) is not applicable.

40 CFR Part 60, Subpart KKKK

Reason: NSPS Subpart KKKK for Stationary Combustion Turbines which specifies the electric generating category for turbines is not applicable to Emission Sources TURB1 & TURB2 because it only applies to those turbines that are less than 50 MMBtu/hr. The proposed two turbines for the



repowering project at the Central Plant at New York University are 60.5 MM Btu/hr each.

NSPS shows different emission limits for units greater than 50 MM Btu/hr, but does not use the electric generating category.

40 CFR Part 63, Subpart DDDDD

Reason: The facility is not a major contributor of Hazardous Air Pollutants (HAPS), and neither contributes more than 10 tons per year of any individual HAP, nor greater than 25 tons per year of combined HAPS.

40 CFR Part 72

Reason: 40 CFR Part 72.9 lists the requirements for permits, monitoring SO₂ allowances, record keeping and reporting. Sulfur dioxide emissions are calculated hourly based on fuel usage and sulfur content in accordance with 40 CFR 60 Subpart GG, 40 CFR 72, and 40 CFR 75.

The NYU's Central Plant's two gas turbines (Emission Sources TURB1 and TURB2 in Emission Unit 1-0000) will be exempt from 40 CFR 72, as the combined two gas turbines are not an "affected unit" as defined under 40 CFR 72.6 (b)(4) (ii) by supplying "equal to or less than 219,000 MWe-hrs actual electric output on an annual basis to any utility power distribution system for sale".

Since both turbines (Emission Sources TURB1 & TURB2) are at 11 MW total (5.5 MW each), and will operate at 8,760 hours/year, then the new facility' annual electrical output will max out at 96,360 MW-hr as:

$$2 \times 5.5 \text{ MW} \times 8,760 \text{ hrs} = 96,360 \text{ MW-hr (which is } < 219,000 \text{ MW-hrs)}$$

40 CFR 72.9

Reason: 40 CFR Part 72.9 lists the requirements for permits, monitoring SO₂ allowances, record keeping and reporting. Sulfur dioxide emissions are calculated hourly based on fuel usage and sulfur content in accordance with 40 CFR 60 Subpart GG, 40 CFR 72, and 40 CFR 75.

The NYU's Central Plant two gas turbines (Emission Sources TURB1 and TURB2 in Emission Unit 1-0000) will be exempt from 40 CFR 72, as long as the combined two gas turbines are not an "affected unit" as defined under 40 CFR 72.6 (b)(4) (ii) by supplying "equal to or less than 219,000 MWe-hrs actual electric output on an annual basis to any utility power distribution system for sale".



Since both turbines (Emission Sources TURB1 & TURB2) are at 11 MW total (5.5 MW each), and will operate at 8,760 hours/year, then the new facility' annual electrical output will max out at 96,360 MW-hr as:

$$2 \times 5.5 \text{ MW} \times 8,760 \text{ hrs} = 96,360 \text{ MW-hr (which is } < 219,000 \text{ MW-hrs}$$

40 CFR Part 75

Reason: The NYU's Central Plant's two gas turbines will be exempt from 40 CFR 75, as long as the gas turbines are not an "affected unit" as defined under 40 CFR 72.6 (b) (4) (ii) by supplying "equal to or less than 219,000 MWe-hrs actual electrical output on an annual basis to any utility power distribution system for sale".

The permit limit is 219,000 MWe-hr electrical output supplied to any utility. Otherwise, 40 CFR Part 75.11 applies and it lists the requirements for permits, monitoring, SO₂ allowances, record keeping and reporting. Sulfur dioxide emissions are calculated hourly based on fuel usage and sulfur content in accordance with 40 CFR 60 Subpart GG, 40 CFR 72, and 40 CFR 75.

Since both turbines (Emission Sources TURB1 & TURB2) are at 11 MW total (5.5 MW each), and will operate at 8,760 hours/year, then the new facility' annual electrical output will max out at 96,360 MW-hr as:

$$2 \times 5.5 \text{ MW} \times 8,760 \text{ hrs} = 96,360 \text{ MW-hr (which is } < 219,000 \text{ MW-hrs}$$

40 CFR Part 75 does not apply to any new unit that serves one or more generators with total nameplate capacity of 25 MW or less (NYU will generate 11 MW) and burns only fuels with a sulfur content of 0.05 percent or less by weight may apply for exemption.

40 CFR 75.11 (d)

Reason: NYU's Central Plant two gas turbines will be exempt from 40 CFR 75, as long as the gas turbines are not an "affected unit" as defined under 40 CFR 72.6 (b) (4) (ii) by supplying "equal to or less than 219,000 MWe-hrs actual electrical output on an annual basis to any utility power distribution system for sale".

The permit limit is 219,000 MWe-hr electrical output supplied to any utility. Otherwise, 40 CFR Part 75.11 applies and it lists the requirements for permits, monitoring, SO₂ allowances, record keeping and reporting. Sulfur dioxide emissions are calculated hourly based on fuel usage and sulfur content in accordance with 40 CFR 60



Subpart GG, 40 CFR 72, and 40 CFR 75.

Since both turbines (Emission Sources TURB1 & TURB2) are at 11 MW total (5.5 MW each), and will operate at 8,760 hours/year, then the new facility' annual electrical output will max out at 96,360 MW-hr as:

$$2 \times 5.5 \text{ MW} \times 8,760 \text{ hrs} = 96,360 \text{ MW-hr (which is } < 219,000 \text{ MW-hrs}$$

40 CFR 75.20

Reason: Acid Precipitation: CEM operation and maintenance requirements - certification and re certification procedures:

Whenever the owner or operator makes a replacement, modification, or change in the certified continuous emission monitoring system or continuous opacity monitoring system (which includes the automated data acquisition and handling system, and, where applicable, the CO₂ continuous emission monitoring system), that significantly affects the ability of the system to measure or record the SO₂ concentration, volumetric gas flow, SO₂ mass emissions, NO_x emission rate, CO₂ concentration, or opacity, or to meet the requirements of appendix B of this 40 CFR 75, the owner or operator shall re certify the continuous emission monitoring system, continuous opacity monitoring system, or component thereof according to the procedures in 40 CFR 75. Examples of changes which require re certification include: replacement of the analytical method, including the analyzer; change in location or orientation of the sampling probe or site; rebuilding of the analyzer or all monitoring system equipment; and replacement of an existing continuous emission monitoring system or continuous opacity monitoring system.

Since both turbines (Emission Sources TURB1 & TURB2) are at 11 MW total (5.5 MW each), and will operate at 8,760 hours/year, then the new facility' annual electrical output will max out at 96,360 MW-hr as:

$$2 \times 5.5 \text{ MW} \times 8,760 \text{ hrs} = 96,360 \text{ MW-hr (which is } < 219,000 \text{ MW-hrs}$$

Condition 26: Facility Permissible Emissions
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 26.1:

New York State Department of Environmental Conservation

Permit ID: 2-6205-00246/00005

Facility DEC ID: 2620500246



The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY210-00-0

PTE: 317,000 pounds per year

Name: OXIDES OF NITROGEN

Condition 27: Capping Monitoring Condition
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 27.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

Item 27.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 27.3:

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.

Item 27.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 27.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 27.6:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-00000

Emission Point: 00001

Process: 004

Emission Source: DUCT1



Emission Unit: 1-00000 Process: 004	Emission Point: 00001 Emission Source: DUCT2
Emission Unit: 1-00000 Process: 004	Emission Point: 00001 Emission Source: TURB1
Emission Unit: 1-00000 Process: 004	Emission Point: 00001 Emission Source: TURB2
Emission Unit: 1-00000 Process: 005	Emission Point: 00001 Emission Source: TURB1
Emission Unit: 1-00000 Process: 005	Emission Point: 00001 Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 27.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Once the two turbines (Emission Sources TURB1 and TURB2) are constructed and are ready to operate (scheduled for 6/30/2010), the total combined NO_x emissions from the two turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (Emission Controls DUCT1 & DUCT2; respectively) burning both natural gas (Process 004) and # 2 fuel oil (Process 005) will be limited to an overall combined NO_x emissions cap of 104.23 tpy. Each turbine has a maximum of 60.5 MM Btu/hr.

Potential to emit (PTE) for each of the two combustion turbines is based on the equivalent of combusting 9 months (6,570 hrs/yr) of natural gas, and 3 months of # 2 fuel oil (2,190 hrs/yr) or a ratio of 3:1 for natural gas to # 2 fuel oil. But, the facility is not taking limitations based on hours of operation, the facility is limiting emissions per year based on the calculated ton-per-year voluntary PTE.

Since both turbines combined will have a NO_x PTE based on operating on #2 fuel oil for 3 months and on natural gas for 9 months, then:

PTE (both turbines, #2 fuel oil only): 130.66
tpy
PTE (both turbines, natural gas only): 32.34
tpy



Thus, PTE NO_x for both turbines combined = 0.25 (130.66)
+ 0.75 (32.34) = 32.67 + 24.26 = 56.93 tpy

Both HRSG duct burners (Emission Sources DUCT1 & DUCT2) combined will have a NO_x PTE based on operating on natural gas for 12 months. Each duct burner has a maximum heat input of 70 MM Btu/hr. Since the HRSGs duct burners will never operate by themselves without the turbines, then:

PTE (both HRSG duct burners operating only on natural gas) : 47.30 tpy NO_x

Thus, both turbines (Emission Sources TURB1 & TURB2) and their corresponding HRSG duct burners (Emission Controls DUCT1 & DUCT2) will have a NO_x PTE = 56.93 + 47.30 = 104.23 tpy

The HRSG duct burners operate only when the turbines are operating; the duct burners would not operate independent of the turbines.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 104.23 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 28: Capping Monitoring Condition
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 28.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

Item 28.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 28.3:

New York State Department of Environmental Conservation

Permit ID: 2-6205-00246/00005

Facility DEC ID: 2620500246



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.

Item 28.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 28.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 28.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG01
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG02
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG03
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG04
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG05
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG06
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG07

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 28.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Upon repowering with the two new turbines (Emission Sources TURB1 & TURB2), scheduled for 6/30/2010, the seven identical reciprocating Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) with waste heat boilers, may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will be capped at an overall 2,000 hours of operation for the combined seven engines.

The hourly NO_x emission cap from 6 NYCRR 231-2 for the seven reciprocating diesel engine generators is 9.0 grams per brake horsepower-hour. The engines currently operate at about 50 % rated capacity for approximately less than 70 % of the time. The limit of 13.9 TPY NO_x from the engines was calculated from 2000 hours operations at medium load.

Manufacturer Name/Model Number: Caterpillar D399 Engines ENG01 thru ENG07

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 13.9 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 29: Capping Monitoring Condition
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 29.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

Item 29.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 29.3:

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,



turbines is based on the equivalent of combusting 9 months (6,570 hrs/yr) of natural gas, and 3 months of # 2 fuel oil (2,190 hrs/yr) or a ratio of 3:1 for natural gas to # 2 fuel oil. But, the facility is not taking limitations based on hours of operation, the facility is limiting the emissions per year based on the calculated ton-per-year voluntary PTE.

Since both turbines combined will have a NOx PTE based on operating on #2 fuel oil for 3 months and on natural gas for 9 months, then:

PTE (both turbines, #2 fuel oil only): 130.66 tpy

PTE (both turbines, natural gas only): 32.34 tpy

Thus, PTE NOx for both turbines combined = $0.25 (130.66) + 0.75 (32.34) = 32.67 + 24.26 = 56.93$ tpy

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 56.93 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 30: Capping Monitoring Condition
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 30.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

Item 30.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 30.3:

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,

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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.

Item 30.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 30.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 30.6:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG01
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG02
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG03
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG04
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG05
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG06
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG07

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 30.7:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
Upon repowering with the two new turbines (Emission



Sources TURB1 & TURB2), scheduled for 6/30/2010, the seven identical reciprocating Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) with waste heat boilers, may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will be capped at an overall 2,000 hours of operation for the combined seven engines.

The hourly NOx emission cap from 6 NYCRR 231-2 for the seven reciprocating diesel engine generators is 9.0 grams per brake horsepower-hour. The engines currently operate at about 50 % rated capacity for approximately less than 70 % of the time. The limit of 13.9 TPY NOx from the engines was calculated from 2000 hours operations at medium load.

Work Practice Type: HOURS PER YEAR OPERATION

Manufacturer Name/Model Number: Caterpillar D399 Engines ENG01 thru ENG07

Upper Permit Limit: 2000 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 31: Capping Monitoring Condition
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 31.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

Item 31.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 31.3:

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.

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combination at different times. The cap applies to the overall combination of both fuels (natural gas & #6 fuel oil) and is not prorated for any single fuel.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Manufacturer Name/Model Number: INTERNATIONAL LFW-30
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 40.4 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 32: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 225-1.2 (a) (2)

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any distillate fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.20 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 33: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 225-1.2 (a) (2)



Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any residual fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: RESIDUAL FUEL (#4, #5 AND/OR #6 FUEL OIL)

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 34: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 225-1.8

Item 34.1:

The Compliance Certification activity will be performed for the Facility.

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility which purchases and fires coal and/or fuel oil shall compile and retain records of the following information:

- a. fuel analyses and data on the quantities of all residual and distillate oil and coal received, burned or sold;
- b. the names of all purchasers of all residual and distillate oil and coal sold;
- c. any results of stack sampling, stack monitoring and other procedures used to ensure compliance with the provisions of 6 NYCRR Part 225-1.

Fuel analyses must contain, as a minimum, data on the



sulfur content, specific gravity and heating value of any residual oil, distillate oil or coal received, burned or sold. Ash content shall also be included in the fuel analyses for any residual oil or coal received, burned or sold.

These records shall be retained for a minimum period of three years. If the facility is subject to Title V requirements the minimum record retention period shall be five years. The records shall be made available for inspection by department staff during normal business hours. In addition, copies of such records shall be furnished to department staff upon request. All required sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 35: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 225.1 (a) (3)

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any distillate oil which has sulfur content greater than 0.20 percent by weight. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.20 percent by weight

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.



Subsequent reports are due every 6 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 225.1 (a) (3)

Item 36.1:

The Compliance Certification activity will be performed for the Facility.

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any residual oil which has sulfur content greater than 0.30 percent by weight. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 225.7 (a)

Item 37.1:

The Compliance Certification activity will be performed for the Facility.

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum, supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submitted to, the NYSDEC

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as per the stated reporting requirement.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 38.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: TURB1

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall
emit greater than 20 percent opacity except for one six
minute period per hour, not to exceed 27 percent, based
upon the six minute average.

The existing continuous opacity monitoring system (COMS)
unit will remain on the stack of Emission Point 00001 for
voluntary monitoring since COMS is not required by this
opacity regulation.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2010.
Subsequent reports are due every 3 calendar month(s).

Condition 39: Compliance Certification



Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 39.1:

The Compliance Certification activity will be performed for the Facility.

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack for each boiler which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).
- 2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:
 - date and time of day
 - observer's name
 - identity of emission point
 - weather condition
 - was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

- 3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.



**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.4 (b)

Item 40.1:
The Compliance Certification activity will be performed for the Facility.

Item 40.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation which utilizes a continuous opacity monitoring system (COMS) shall include the following in their quarterly excess emission reports:

- 1) Magnitude, date, and time of each exceedence;
- 2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- 3) Date, time, and duration of each period of COMS downtime, and the corrective action for each period of downtime;
- 4) Total time the COMS is required to record data during the reporting period;
- 5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and



6) Such other requirements as the Department may deem necessary in order to enforce Article 19 of the Environmental Conservation Law (ECL).

Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2010.
Subsequent reports are due every 3 calendar month(s).

Condition 41: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.6 (a)

Item 41.1:

The Compliance Certification activity will be performed for the Facility.

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any facility found in violation of the provisions of this Part shall not cause, permit, or allow the operation of the affected stationary combustion installation unless:

1. It is equipped with approved emission control equipment;
2. It is rehabilitated or upgraded in an approved manner;
- or
3. the fuel is changed to an acceptable type.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 42: Corrective action.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.6 (b)

Item 42.1:

The commissioner may seal such stationary combustion installation so as to prevent any operation if the conditions of paragraphs 6 NYCRR Part 227-1.6(a)(1)-(3) are not met within the time provided by the order of final determination issued in the case of the violation.

Condition 43: Corrective action.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.6 (c)

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Item 43.1:

No person shall cause, permit, or allow the operation of any affected stationary combustion installation sealed by the commissioner in accordance with this section.

Condition 44: Corrective action.

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.6 (d)

Item 44.1:

No person except the commissioner or his representative shall remove, tamper with, or destroy any seal affixed to any affected stationary combustion installation.

Condition 45: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-2.4 (f) (2) (ii)

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG01
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG02
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG03
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG04
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG05
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG06
Emission Unit: 2-00000 Process: 003	Emission Point: 00002 Emission Source: ENG07

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven identical 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000 with waste heat boilers at the plant, may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, scheduled for 6/30/2010, and will operate no more than 2,000 hours/7 engines/year.

Application for renewal of this Title V Operating permit includes a request for granting a variance from the NOx emission limit of 2.3 grams per brake horsepower-hour beginning April 1, 2005 for economic reasons. It also provides for establishing a NOx emission limit of 9.0 grams per brake horsepower-hour for all of the seven reciprocating engines identified as ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 and ENG07 in Emission Unit 2-00000. The variance requests that the NOx emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains even after the repowering plant becomes operational (beginning 6/30/2010). A variance from full compliance with NOx emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000.

The facility requests an extension of the current engine operations and the current actual NOx emissions as RACT even after the repowering project is completed (scheduled for 6/30/2010).

The seven engines will be operated in accordance with the NOx RACT Compliance Plan (6 NYCRR 227) submitted in June 30, 2004.

The last stack testing for the seven engines was March 20 - 22, 2002. Testing was performed at three separate operating loads for each of the seven engines. A triplicate test sequence was performed at each of these load conditions. The units tested were all identical Caterpillar D-399 generators each firing 64 gph of diesel fuel. Each engine is rated at 850 KW, with an engine output of 1140 HP. Each engine is equipped with a Vaporphase waste heat recovery boiler/silencer. During testing, the fuel oil consumption rate and the engine load data were recorded.

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The results of emissions testing of the engines on March 20 - 22, 2002 yielded the following individual engine NOx emission rates:

Engine Load	ENG01	ENG02	ENG03	ENG04
Low - 350 KW 7.924	6.205	8.693	8.259	
Mid - 525 KW 7.501	6.472	8.362	7.677	
High - 700 KW 7.943	6.967	8.799	7.768	

Engine Load Average	ENG05	ENG06	ENG07
Low - 350 KW 7.765	7.846	7.069	8.357
Mid - 525 KW 7.383	6.545	7.638	7.489
High - 700 KW 7.909	7.933	8.122	7.832

Summary results shows the average stack test results for the seven engines as:

Low Load - 350 KW - 7.765 grams/BHP-hr

Mid Load - 525 KW - 7.383 grams/BHP-hr

High Load - 700 KW - 7.909 grams/BHP-hr

The results of all tests conducted on all engines demonstrate that the emissions from all the engines were in compliance with the applicable standard of 9.0 grams per brake horsepower of NOx. The engines currently operate at about 50 % rated capacity for approximately less than 70 % of the time.

The limit of 13.9 TPY NOx emissions from the seven engines was calculated from 2,000 hours operations at medium load.

Manufacturer Name/Model Number: Caterpillar D399 (850 KW or 1,000 hp mechanical) - ENG01 thru ENG07



or technical feasibility must include, but is not limited, the evaluation of fuel switching, selective catalytic reduction or system averaging as compliance options. This alternative RACT emission limit must be approved by the Department and by the Administrator as a revision to the State Implementation Plan.

On June 30, 2004 NYU has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (DUCT1 & DUCT2; respectively) and may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program (scheduled for 6/30/2010) and will run no more than 2,000 hours/7 engines/year. There are no emission increases and therefore no exceedances of NSR or PSD thresholds, and thus no applicability. The two dual-fueled turbines and their duct burners will replace the seven engines and will provide electricity to the facility. The facility requests an extension of the current engine operations and the current actual NO_x emissions as RACT even after the repowering project is completed (scheduled for 6/30/2010). Significant reductions in annual emissions can be expected with the new equipment. Intensive capital investment into the engines, other than that which would contribute to the equipment replacement project at this time, would be disadvantageous to the project. Technologies that could meet the new NO_x limits would require significant capital investment and would be counter-effective and counter-productive in the long term, and provide nowhere near the efficiency of reducing NO_x as would the repowering (equipment replacement) project. A significant permanent environmental benefit will result from this proposed project. The analysis concluded that no NO_x control technologies were economically feasible for any of the seven generators at the facility. This report was submitted to comply with a variance request to the NO_x emission limit stated above pursuant to Part 621, Uniform Procedures act.

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Application for renewal of this Title V Operating permit includes a request for granting a variance from the above mentioned NOx emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. It also provides for establishing a NOx emission limit of 9.0 grams per brake horsepower-hour for all of the seven reciprocating engines identified as ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 and ENG07 in Emission Unit 2-00000. Each of the seven engines is rated at 850 kilowatts (1,000 hp mechanical). Upon repowering with the two new turbines (scheduled for 6/30/2010), the seven engines may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program beginning 6/30/2010. With the issuance of this permit, the NOx RACT Variance of 9.0 grams per brake horsepower-hour for each of the seven reciprocating engines, identified as ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 and ENG07 in Emission Unit 2-00000 has been accepted by the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: Caterpillar D399 (850 KW or 1,000 hp mechanical) - ENG01 thru ENG07

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 grams per brake horsepower-hour

Monitoring Frequency: Hourly when in use

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4305, NSPS Subpart KKKK

Item 47.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-00000	Emission Point: 00001
Process: 004	Emission Source: TURB1
Emission Unit: 1-00000	Emission Point: 00001
Process: 004	Emission Source: TURB2
Emission Unit: 1-00000	Emission Point: 00001
Process: 005	Emission Source: TURB1

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Emission Unit: 1-00000
Process: 005

Emission Point: 00001
Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The two combustion turbines (Emission Sources TURB1 & TURB2) are subject to 40 CFR 60.KKKK - Standards of Performance for Stationary Combustion Turbines for the operation of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MM Btu) per hour, which commenced construction, modification, or reconstruction after February 18, 2005. The two combustion turbines are identical, and each one is approximately 60.5 MM Btu/hr and they will burn either natural gas (Process 004) or # 2 fuel oil (Process 005). This replaces the requirements of 40 CFR 60.GG which have expired. NOx emissions under 40 CFR 60.KKKK are limited to less than or equal to 25 ppm (when firing natural gas), and are limited to 74 ppm (when firing oil) subject to initial and periodic performance testing to confirm compliance.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 48: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4340, NSPS Subpart KKKK

Item 48.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-00000
Process: 005

Emission Point: 00001
Emission Source: TURB1

Emission Unit: 1-00000
Process: 005

Emission Point: 00001
Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

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Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NYU Central Plant must perform annual performance tests in accordance with 40 CFR 60.4400, NSPS Subpart KKKK to demonstrate continuous compliance for the two combustion turbines (Emission Sources TURB1 & TURB2). If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine, frequency of subsequent tests may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOx emission limit for the turbine, performance testing shall resume to annual.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

The two combustion turbines (Emission Sources TURB1 & TURB2) are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NOx emission limit is 74 ppm at 15 % O2 for > 50 MM Btu/hr new turbines firing fuels other than natural gas.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 74 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 49: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4340, NSPS Subpart KKKK

Item 49.1:

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The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-00000
Process: 004

Emission Point: 00001
Emission Source: TURB1

Emission Unit: 1-00000
Process: 004

Emission Point: 00001
Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NYU Central Plant must perform annual performance tests in accordance with 40 CFR 60.4400, NSPS Subpart KKKK to demonstrate continuous compliance for the two combustion turbines (Emission Sources TURB1 & TURB2). If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, frequency of subsequent tests may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, performance testing shall resume to annual.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NO_x emission limit is 25 ppm at 15 % O₂ for > 50 MM Btu/hr new turbines firing natural gas.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

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Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 50: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4365(a), NSPS Subpart

KKKK

Item 50.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-00000	Emission Point: 00001
Process: 005	Emission Source: TURB1
Emission Unit: 1-00000	Emission Point: 00001
Process: 005	Emission Source: TURB2
Regulated Contaminant(s):	
CAS No: 007446-09-5	SULFUR DIOXIDE

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The sulfur content in the #2 fuel oil combusting in the two combustion turbines (Emission Sources TURB1 & TURB2) is limited to 0.05 % sulfur by weight. This is equivalent to 500 ppm by weight or less. Therefore, the potential sulfur dioxide emissions are less than 0.060 lbs per MM Btu heat input.

The SO₂ emission has to be less than 0.06 lbs/MM Btu to be exempt. If not, then the facility will monitor SO₂ emissions which will be calculated hourly based on fuel usage and sulfur content.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 500 parts per million by weight
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.



The initial report is due 1/30/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 51: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4365(a), NSPS Subpart

KKKK

Item 51.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-00000	Emission Point: 00001
Process: 004	Emission Source: TURB1
Emission Unit: 1-00000	Emission Point: 00001
Process: 004	Emission Source: TURB2
Regulated Contaminant(s):	
CAS No: 007446-09-5	SULFUR DIOXIDE

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The sulfur content in the natural gas combusting in the two combustion turbines (Emission Sources TURB1 & TURB2) is limited to 0.05 % sulfur by weight (20 grains per 100 scf). Therefore; the potential sulfur dioxide emissions are less than 0.06 lbs per MM Btu heat input(which is equivalent to 500 ppm).

The SO₂ emission has to be less than 0.06 lbs/MM Btu to be exempt. If not, then the facility will monitor SO₂ emissions which will be calculated hourly based on fuel usage and sulfur content.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 20 grains per 100 scf

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).



**** Emission Unit Level ****

Condition 52: Emission Point Definition By Emission Unit
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 52.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00000

Emission Point: 00001

Height (ft.): 222

Diameter (in.): 108

NYTMN (km.): 4509.2

NYTME (km.): 584.8

Building: 251

Item 52.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 2-00000

Emission Point: 00002

Height (ft.): 167

Diameter (in.): 36

NYTMN (km.): 4509.2

NYTME (km.): 584.8

Building: 40

Condition 53: Process Definition By Emission Unit
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 53.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00000

Process: 001

Source Classification Code: 1-02-006-02

Process Description:

Process 001 is the combustion of natural gas in three existing boilers (Emission Sources OBLRA, OBLRB & OBLRC) in Emission Unit 1-0000. Boilers OBLRA, OBLRB and OBLRC are 65 MM Btu/hr each. These three boilers combust natural gas at mid load (per stack test results). A 114 MM Btu/hr high pressure steam boiler (Boiler D - Emission Source OBLRD) was removed from the facility on 1/1/2009.

Emissions from the three boilers exhaust through a single emission point, a nine foot diameter stack on the roof of 251 Mercer Street, identified as Emission Point 00001. The same emission point will be used to exhaust emissions from the two new turbines (Emission Sources TURB1 & TURB2) and



their corresponding duct burners (Emission Controls DUCT1 & DUCT2; respectively).

Emission Source/Control: 0BLRA - Combustion

Emission Source/Control: 0BLRB - Combustion

Emission Source/Control: 0BLRC - Combustion

Item 53.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00000

Process: 002

Source Classification Code: 1-02-004-02

Process Description:

Process 002 consists of the combustion of # 6 fuel oil (residual oil) in three existing boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) in Emission Unit 1-0000. Boilers 0BLRA, 0BLRB and 0BLRC are 65 MM Btu/hr each. A 114 MM Btu/hr high pressure steam boiler (Boiler D - Emission Source 0BLRD) was removed from the facility on 1/1/2009.

Emission Source/Control: 0BLRA - Combustion
Design Capacity: 65 million Btu per hour

Emission Source/Control: 0BLRB - Combustion
Design Capacity: 65 million Btu per hour

Emission Source/Control: 0BLRC - Combustion
Design Capacity: 65 million Btu per hour

Item 53.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00000

Process: 004

Source Classification Code: 2-01-002-01

Process Description:

Process 004 will consist of the combustion of natural gas in the two new 5.5 MW turbines (Emission Sources TURB1 & TURB2) with or without their corresponding two new duct burners (Emission Controls DUCT1 & DUCT2; respectively) in Emission Unit 1-00000. The duct burners combust only natural gas. When the two turbines are not operating due to emergency or maintenance, the duct burners will not operate and supplemental hot water will be provided by the boilers. The duct burners operate only when the turbines are operating, and will not operate independent of the turbines.

The scheduled date for the operation of the two new



turbines with their corresponding two new duct burners is 6/30/2010, at which time the seven engine generators may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program and will operate no more than 2,000 hours/7 engines/year.

When the two combustion turbines (Emission Sources TURB1 & TURB2) achieve full operation, field testing will confirm the anticipated running between 100 % load and 52 % load on natural gas, depending on campus conditions, while maintaining emission levels. The two combustion turbines are identical, and each is approximately 60.5 MM Btu/hr.

Emission Source/Control: TURB1 - Combustion
Design Capacity: 5.5 megawatt

Emission Source/Control: TURB2 - Combustion
Design Capacity: 5.5 megawatt

Emission Source/Control: DUCT1 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: DUCT2 - Control
Control Type: LOW NOx BURNER

Item 53.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00000

Process: 005

Source Classification Code: 2-01-001-01

Process Description:

Process 005 will consist of the combustion of # 2 fuel oil (distillate oil) in the two new 5.5 MW turbines (Emission Sources TURB1 & TURB2) with or without their corresponding two new duct burners (Emission Controls DUCT1 & DUCT2; respectively) in Emission Unit 1-00000. The duct burners combust only natural gas. When the two new turbines are not operating due to emergency or maintenance, the duct burners will not operate and supplemental hot water will be provided by the boilers. The duct burners operate only when the turbines are operating; the duct burners will not operate independent of the turbines.

Emissions from the two turbines/duct burners will be exhausted through a single emission point, identified as Emission Point 00001 (the same emission point as the three boilers). The scheduled date for the operation of the two new turbines with their corresponding two new duct burners is 6/30/2010, at which time the seven engine generators may participate in the Special Case Resources (SCR) of the

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New York Independent System Operator (NYISO) or any other demand response program (scheduled for 6/30/2010), and will operate no more than 2,000 hours/7 engines/year.

When the two combustion turbines (Emission Sources TURB1 & TURB2) achieve full operation, field testing will confirm the anticipated running between 100 % load and 60 % load on # 2 fuel oil, depending on campus conditions, while maintaining emission levels. The two combustion turbines are identical, and each is approximately 60.5 MM Btu/hr.

Emission Source/Control: TURB1 - Combustion
Design Capacity: 5.5 megawatt

Emission Source/Control: TURB2 - Combustion
Design Capacity: 5.5 megawatt

Emission Source/Control: DUCT1 - Control
Control Type: LOW NOx BURNER

Emission Source/Control: DUCT2 - Control
Control Type: LOW NOx BURNER

Item 53.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-00000

Process: 003

Source Classification Code: 2-01-001-02

Process Description:

Process 003 is the firing of diesel oil (# 2 fuel oil) in the seven identical Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) associated with waste heat boilers at the plant in Emission Unit 2-00000. Each diesel engine generator is 850 KW (1,000 hp mechanical). The emissions from these seven diesel engine generators exhaust through one common stack, identified as Emission Point 00002.

Upon repowering with the two new turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (Emission Controls DUCT1 & DUCT2; respectively), scheduled for 6/30/2010, the seven identical Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) with waste heat boilers may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year.

Emission Source/Control: ENG01 - Combustion

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Design Capacity: 850 kilowatts

Emission Source/Control: ENG02 - Combustion
Design Capacity: 850 kilowatts

Emission Source/Control: ENG03 - Combustion
Design Capacity: 850 kilowatts

Emission Source/Control: ENG04 - Combustion
Design Capacity: 850 kilowatts

Emission Source/Control: ENG05 - Combustion
Design Capacity: 850 kilowatts

Emission Source/Control: ENG06 - Combustion
Design Capacity: 850 kilowatts

Emission Source/Control: ENG07 - Combustion
Design Capacity: 850 kilowatts

Condition 54: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.2 (a) (1)

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit from any stationary combustion installation, ducted through a common stack, which fire liquid fuels, and that have a heat capacity exceeding 250 MM Btu/hr is limited to 0.10 pounds per million Btus.

This condition applies to Emission Unit 1-00000, Emission Point 00001 and Process 005 for the two new turbines (Emission Sources TURB1 & TURB2); and Process 002 for the three boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC).

The total heat input from all the liquid fuel burning stationary combustion installations in Emission Unit

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1-00000 & Emission Point 00001, is as follows:

Turbine TURB1 60.5 MM Btu/hr

Turbine TURB2 60.5 MM Btu/hr

Boiler 0BLRA 65 MM Btu/hr

Boiler 0BLRB 65 MM Btu/hr

Boiler 0BLRC 65 MM Btu/hr

Total heat capacity from the above stationary combustion installation exceeds 250 MM Btu/hr.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 55: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.3 (a)

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

The existing continuous opacity monitoring system (COMS) unit will remain voluntarily on the stack of Emission Point 00001.

Parameter Monitored: OPACITY

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Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2010.
Subsequent reports are due every 3 calendar month(s).

Condition 56: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.4 (b)

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NYU will maintain a voluntary COMS on Emission Point 00001 since a continuous opacity monitoring system (COMS) is not required due to the exclusion of turbines. Either by voluntary COMS or visible emissions observations, NYU will include the following in their quarterly excess emission reports:

- (1) Magnitude, date, and time of each exceedence;
- (2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- (3) Date, time, and duration of each period of COMS downtime, and the corrective action for each period of downtime;
- (4) Total time the COMS is required to record data during the reporting period;
- (5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and
- (6) Such other requirements as the Department may deem necessary in order to enforce Article 19 of the Environmental Conservation Law (ECL).

Monitoring Frequency: CONTINUOUS

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Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2010.

Subsequent reports are due every 3 calendar month(s).

**Condition 57: Conditions developed to implement the fuel switching option should be entered here.
Effective between the dates of 01/19/2010 and 01/18/2015**

Applicable Federal Requirement:6 NYCRR 227-2.5 (a)

Item 57.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001

Item 57.2:

The emission limits associated with fuel switching should be included as a special condition. The fuel switching plan should be included in the approved compliance plan and should be referenced here. The fuel switching must result in quantifiable annual NOx emissions equal to or less than the NOx emissions expected if the combustion installation complied with the emission limits in 227-2.4. The cleaner fuel must be utilized during the ozone season. Further guidance may be found in Air Program Memo 45.

**Condition 58: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015**

Applicable Federal Requirement:6 NYCRR 227.2 (b) (1)

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

During the term of this permit, the facility shall perform the following:

1. Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.

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2. Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
3. Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
4. Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 59: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (2)

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 001

Emission Source: 0BLRA

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limits for midsize boilers, where stacking testing is required for compliance. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

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Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 60: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-2.4 (c) (2)

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 001 Emission Source: 0BLRB

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limits for midsize boilers, where stacking testing is required for compliance. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 61: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-2.4 (c) (2)

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 001 Emission Source: 0BLRC

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 61.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limits for midsize boilers, where stacking testing is required for compliance. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 62: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 002

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each boiler which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- date and time of day
- observer's name
- identity of emission point
- weather condition
- was a plume observed?

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Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 64: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015



Applicable Federal Requirement:6 NYCRR 227.2 (b) (1)

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 002

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

During the term of this permit, the facility shall perform the following:

1. Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
2. Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
3. Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
4. Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 65: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

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Applicable Federal Requirement:6 NYCRR 227-2.4 (c) (2)

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000
Process: 002

Emission Point: 00001
Emission Source: OBLRA

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limits for midsize boilers, where stacking testing is required for compliance. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.30 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 66: Compliance Certification

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-2.4 (c) (2)

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000
Process: 002

Emission Point: 00001
Emission Source: OBLRB

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limits for midsize boilers, where stacking testing is required for compliance. The owner or operator must submit a stack test protocol to the Department for

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approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.30 pounds per million Btus
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 67: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (2)

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 002 Emission Source: 0BLRC

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limits for midsize boilers, where stacking testing is required for compliance. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.30 pounds per million Btus
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 68: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (i)

Item 68.1:

The Compliance Certification activity will be performed for:

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Emission Unit: 1-00000
Process: 004

Emission Point: 00001
Emission Source: DUCT1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the combined combustion turbine 1 (Emission Source TURB1) with its associated duct burner (Emission Control DUCT1) in Emission Unit 1-00000 burning natural gas (Process 004) will comply with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit in 6 NYCRR 227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with an annual stack testing using EPA Method 7E on the duct burner in accordance with 6 NYCRR 227-2.6(a)(2) and (b) rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the duct burner (Emission Control DUCT1) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner (DUCT1) associated with the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 42.0 parts per million by volume (dry, corrected to 15% O₂) when firing gas, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and

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the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB1 & DUCT1
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 42.0 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ANNUALLY
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2011.
Subsequent reports are due every 12 calendar month(s).

**Condition 69: EPA Region 2 address.
Effective between the dates of 01/19/2010 and 01/18/2015**

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 69.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 69.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

**Condition 70: Recordkeeping requirements.
Effective between the dates of 01/19/2010 and 01/18/2015**



Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 70.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 70.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Condition 71: Facility files for subject sources.
Effective between the dates of 01/19/2010 and 01/18/2015**

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 71.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 71.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 72: Performance testing timeline.
Effective between the dates of 01/19/2010 and 01/18/2015**

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 72.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 72.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

**Condition 73: Performance Test Methods - Waiver EU Level
Effective between the dates of 01/19/2010 and 01/18/2015**



Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 73.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 73.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

Condition 74: Prior notice.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 74.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 74.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 75: Performance testing facilities.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 75.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT1

Item 75.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;

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- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 76: Number of required tests.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 76.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
 Process: 004 Emission Source:
 DUCT1

Item 76.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 77: Availability of information.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 77.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
 Process: 004 Emission Source:
 DUCT1

Item 77.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 78: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4325, NSPS Subpart KKKK

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
 Process: 004 Emission Source: DUCT1

Regulated Contaminant(s):
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 78.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NO_x emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the NO_x emission
limits specified in Table 1 to this subpart. If the
turbine's total heat input is greater than or equal to 50
percent natural gas, then the owner or operator must meet
the corresponding limit for a natural gas-fired turbine
when the turbine is burning that fuel. Similarly, when
the turbine's total heat input is greater than 50 percent
distillate oil and fuels other than natural gas, then the
owner or operator must meet the corresponding limit for
distillate oil and fuels other than natural gas for the
duration of the time that the turbine burns that
particular fuel.

Since NYU Central Plant will not be using water or steam
injection to control NO_x emissions from the combined
combustion turbine 1 (Emission Source TURB1) with its
associated duct burner (Emission Control DUCT1), the
facility must perform annual performance tests in
accordance with 40 CFR 60 KKKK 4400 to demonstrate
continuous compliance for the two combustion turbines
(Emission Sources TURB1 & TURB2). If the NO_x emission
result from the performance test is less than or equal to
75 percent of the NO_x emission limit for the turbine, then
the facility may reduce the frequency of subsequent
performance tests to once every 2 years (no more than 26
calendar months following the previous performance test).
If the results of any subsequent performance test exceed
75 percent of the NO_x emission limit for the turbine, then
the facility must resume annual performance
tests.

Oxides of Nitrogen emissions from the combined combustion
turbine # 1 (Emission Source TURB1) with its associated
duct burner (Emission Control DUCT1) in Emission Unit
1-00000 burning natural gas (Process 004) will comply with
the 25 parts per million by volume (dry, corrected to 15%
O₂) limit for the combustion turbine alone. Compliance
will be demonstrated with an annual stack testing rather
than Continuous Emission Monitoring System (CEMS).

Performance will be confirmed with stack testing and
routine compliance reporting, instead of Continuous
Emissions Monitoring System (CEMS) on the duct burner



outlet (Emission Control DUCT1) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NO_x stack testing rather than CEMS on the duct burner outlet (Emission Control DUCT1) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NO_x emission limit is 25 ppm at 15 % O₂ for > 50 MM Btu/hr new turbines firing natural gas.

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 25 ppm at 15 % O₂ when firing gas, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB1 & DUCT1

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 79: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (i)



Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: DUCT2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the combined 5.5 megawatt SOLAR/TAURUS combustion Turbine # 2 (Emission Source TURB2) with its duct burner (Emission Control DUCT2) in Emission Unit 1-00000 burning natural gas (Process 004) will comply with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit in 6 NYCRR 227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with an annual stack testing using EPA Method 7E on the duct burner in accordance with 6 NYCRR 227-2.6(a)(2) and (b) rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the duct burner (Emission Control DUCT2) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner (DUCT2) associated with the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance

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with the NOx emission limit of 42.0 parts per million by volume (dry, corrected to 15% O2) when firing gas, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB2 & DUCT2

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42.0 parts per million by volume

(dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING

DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 80: EPA Region 2 address.

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 80.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001

Process: 004

Emission Source:

DUCT2

Item 80.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance

USEPA Region 2

290 Broadway, 21st Floor

New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC

Bureau of Quality Assurance

625 Broadway

Albany, NY 12233-3258

New York State Department of Environmental Conservation

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Condition 81: Recordkeeping requirements.

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 81.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 81.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 82: Facility files for subject sources.

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 82.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 82.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 83: Performance testing timeline.

Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 83.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 83.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the

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Administrator.

Condition 84: Performance Test Methods - Waiver EU Level
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 84.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 84.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

Condition 85: Prior notice.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 85.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 85.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 86: Performance testing facilities.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 86.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 86.2:

The following performance testing facilities shall be provided during all tests:

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- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 87: Number of required tests.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 87.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 87.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 88: Availability of information.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 88.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
DUCT2

Item 88.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 89: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4325, NSPS Subpart KKKK

Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: DUCT2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN



Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary Combustion Turbines and it specifies the NOx emission limits specified in Table 1 to this subpart. If the turbine's total heat input is greater than or equal to 50 percent natural gas, then the owner or operator must meet the corresponding limit for a natural gas-fired turbine when the turbine is burning that fuel. Similarly, when the turbine's total heat input is greater than 50 percent distillate oil and fuels other than natural gas, then the owner or operator must meet the corresponding limit for distillate oil and fuels other than natural gas for the duration of the time that the turbine burns that particular fuel.

Since NYU Central Plant will not be using water or steam injection to control NOx emissions from the combined combustion turbine 2 (Emission Source TURB2) with its associated duct burner (Emission Control DUCT2), the facility must perform annual performance tests in accordance with 40 CFR 60 KKKK 4400 to demonstrate continuous compliance for the two combustion turbines (Emission Sources TURB1 & TURB2). If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine, then the facility may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOx emission limit for the turbine, then the facility must resume annual performance tests.

Oxides of Nitrogen emissions from the combined combustion turbine # 2 (Emission Source TURB2) with its associated duct burner (Emission Control DUCT2) in Emission Unit 1-00000 burning natural gas (Process 004) will comply with the 25 parts per million by volume (dry, corrected to 15% O2) limit for the combustion turbine alone. Compliance will be demonstrated with an annual stack testing rather than Continuous Emission Monitoring System (CEMS).



Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner outlet (DUCT2) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NO_x stack testing rather than CEMS on the duct burner outlet (Emission Control DUCT2) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

The two combustion turbines (Emission Soures TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NO_x emission limit is 25 ppm at 15 % O₂ for > 50 MM Btu/hr new turbines firing natural gas.

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 25 ppm at 15 % O₂ when firing gas, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB2 & DUCT2

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 90: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015



Applicable Federal Requirement:6 NYCRR 227-2.4 (e) (2)

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: TURB1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT emission limits for combined cycle turbines firing gas.

The owner or operator of a source is required to submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 42.0 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ANNUALLY
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 91: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-2.4 (e) (2) (i)

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: TURB1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 91.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the 5.5 megawatt SOLAR/TAURUS combustion Turbine # 1 (Emission Source TURB1) in Emission Unit 1-00000 burning natural gas (Process 004) will comply with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit in 6 NYCRR 227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with annual stack testing rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the combustion gas turbine (Emission Control TURB1) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion gas (TURB1) in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 42.0 parts per million by volume (dry, corrected to 15% O₂) when firing gas, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB1

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

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Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 92: EPA Region 2 address.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 92.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 92.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Condition 93: Recordkeeping requirements.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 93.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 93.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous

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monitoring system or monitoring device is inoperative.

Condition 94: Facility files for subject sources.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 94.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 94.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 95: Performance testing timeline.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 95.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 95.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 96: Performance Test Methods - Waiver EU Level
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 96.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 96.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific

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cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

Condition 97: Prior notice.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 97.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 97.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 98: Performance testing facilities.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 98.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB1

Item 98.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 99: Number of required tests.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 99.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001

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Process: 004

Emission Source:

TURB1

Item 99.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 100: Availability of information.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 100.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:

TURB1

Item 100.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 101: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4325, NSPS Subpart KKKK

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: TURB1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 101.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the NOx emission
limits specified in Table 1 to this subpart. If the
turbine's total heat input is greater than or equal to 50
percent natural gas, then the owner or operator must meet



the corresponding limit for a natural gas-fired turbine when the turbine is burning that fuel. Similarly, when the turbine's total heat input is greater than 50 percent distillate oil and fuels other than natural gas, then the owner or operator must meet the corresponding limit for distillate oil and fuels other than natural gas for the duration of the time that the turbine burns that particular fuel.

Since NYU Central Plant will not be using water or steam injection to control NOx emissions from the combustion turbine 1 (Emission Source TURB2) alone, the facility must perform annual performance tests in accordance with 40 CFR 60 KKKK 4400 to demonstrate continuous compliance for the two combustion turbines (Emission Sources TURB1 & TURB2). If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine, then the facility may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOx emission limit for the turbine, then the facility must resume annual performance tests.

Oxides of Nitrogen emissions from the 5.5 megawatt combustion turbine # 1 (Emission Source TURB1) in Emission Unit 1-00000 burning natural gas (Process 004) will comply with the 25 parts per million by volume (dry, corrected to 15% O2) limit for the combustion turbine alone. Compliance will be demonstrated with an annual stack testing rather than Continuous Emission Monitoring System (CEMS).

Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion turbine outlet (Emission Source TURB 1) in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NOx stack testing rather than CEMS on the combustion gas turbine outlet (Emission Source TURB1) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NOx stack testing as described above of the



turbine's emissions.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NOx emission limit is 25 ppm at 15 % O2 for > 50 MM Btu/hr new turbines firing natural gas.

For combustion turbines with a duct burner, compliance with the NOx emission limit of 25 ppm at 15 % O2 when firing gas, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB1

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 102: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4340(a), NSPS Subpart

KKKK

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 004

Emission Source: TURB1

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the facility is not using water or steam injection to control NOx emissions, the facility must perform annual

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performance tests in accordance with §60.4400 to demonstrate continuous compliance.

If the NOx emission result from the performance test is less than or equal to 75% of the NOx emission limit for the turbine, the facility may reduce the frequency of subsequent performance tests to once every two years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceeds 75% of the NOx emission limit for the turbine, the facility must resume annual performance tests.

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 103: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2)

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 004

Emission Source: TURB2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT emission limits for combined cycle turbines firing gas.

The owner or operator of a source is required to submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ANNUALLY

Averaging Method: 1-HOUR AVERAGE

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Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 104: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (i)

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the 5.5 megawatt SOLAR/TAURUS combustion Turbine # 2 (Emission Source TURB2) in Emission Unit 1-00000 burning natural gas (Process 004) will comply with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit in 6 NYCRR 227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with annual stack testing rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 42.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the combustion gas turbine (Emission Control TURB2) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and

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routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner (DUCT2) associated with the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance with the NOx emission limit of 42.0 parts per million by volume (dry, corrected to 15% O₂) when firing gas, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB2
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 42.0 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ANNUALLY
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 105: EPA Region 2 address.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 105.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB2

Item 105.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

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NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Condition 106: Recordkeeping requirements.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 106.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB2

Item 106.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 107: Facility files for subject sources.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 107.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB2

Item 107.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 108: Performance testing timeline.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 108.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:

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TURB2

Item 108.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 109: Performance Test Methods - Waiver EU Level
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 109.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:

TURB2

Item 109.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

Condition 110: Prior notice.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 110.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:

TURB2

Item 110.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 111: Performance testing facilities.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 111.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001

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TURB2

Process: 004

Emission Source:

Item 111.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 112: Number of required tests.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 112.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB2

Item 112.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 113: Availability of information.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 113.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source:
TURB2

Item 113.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 114: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4325, NSPS Subpart KKKK

Item 114.1:

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The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 004

Emission Source: TURB2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the NOx emission
limits specified in Table 1 to this subpart. If the
turbine's total heat input is greater than or equal to 50
percent natural gas, then the owner or operator must meet
the corresponding limit for a natural gas-fired turbine
when the turbine is burning that fuel. Similarly, when
the turbine's total heat input is greater than 50 percent
distillate oil and fuels other than natural gas, then the
owner or operator must meet the corresponding limit for
distillate oil and fuels other than natural gas for the
duration of the time that the turbine burns that
particular fuel.

Since NYU Central Plant will not be using water or steam
injection to control NOx emissions from the combustion
turbine 2 (Emission Source TURB2) alone, the facility must
perform annual performance tests in accordance with 40 CFR
60 KKKK 4400 to demonstrate continuous compliance for the
two combustion turbines (Emission Sources TURB1 & TURB2).
If the NOx emission result from the performance test is
less than or equal to 75 percent of the NOx emission limit
for the turbine, then the facility may reduce the
frequency of subsequent performance tests to once every 2
years (no more than 26 calendar months following the
previous performance test). If the results of any
subsequent performance test exceed 75 percent of the NOx
emission limit for the turbine, then the facility must
resume annual performance tests.

Oxides of Nitrogen emissions from the 5.5 megawatt
combustion turbine # 2 (Emission Source TURB2) in Emission
Unit 1-00000 burning natural gas (Process 004) will comply
with the 25 parts per million by volume (dry, corrected to



15% O₂) limit for the combustion turbine alone. Compliance will be demonstrated with an annual stack testing rather than Continuous Emission Monitoring System (CEMS).

Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion turbine outlet (Emission Source TURB 2) in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NO_x stack testing rather than CEMS on the combustion gas turbine outlet (Emission Source TURB2) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NO_x emission limit is 25 ppm at 15 % O₂ for > 50 MM Btu/hr new turbines firing natural gas.

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 25 ppm at 15 % O₂ when firing gas, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB2

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).



Condition 115: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4340(a), NSPS Subpart

KKKK

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 004 Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the facility is not using water or steam injection to control NOx emissions, the facility must perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance.

If the NOx emission result from the performance test is less than or equal to 75% of the NOx emission limit for the turbine, the facility may reduce the frequency of subsequent performance tests to once every two years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceeds 75% of the NOx emission limit for the turbine, the facility must resume annual performance tests.

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 116: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001



Process: 005

Item 116.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

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Subsequent reports are due every 6 calendar month(s).

Condition 117: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)

Item 117.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 117.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

During the term of this permit, the facility shall perform the following:

1. Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
2. Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
3. Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
4. Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



Condition 118: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.45c(a), NSPS Subpart Dc

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
initial performance test required under 40CFR60.8

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 119: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (ii)

Item 119.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: DUCT1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 119.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Oxides of Nitrogen emissions from the combined 5.5 megawatt SOLAR/TAURUS combustion Turbine # 1 (Emission Source TURB1) burning #2 fuel oil (Process 005) with its



Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4325, NSPS Subpart KKKK

Item 120.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: DUCT1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the NOx emission
limits specified in Table 1 to this subpart. If the
turbine's total heat input is greater than or equal to 50
percent natural gas, then the owner or operator must meet
the corresponding limit for a natural gas-fired turbine
when the turbine is burning that fuel. Similarly, when
the turbine's total heat input is greater than 50 percent
distillate oil and fuels other than natural gas, then the
owner or operator must meet the corresponding limit for
distillate oil and fuels other than natural gas for the
duration of the time that the turbine burns that
particular fuel.

Since NYU Central Plant will not be using water or steam
injection to control NOx emissions from the combined
combustion turbine 1 (Emission Source TURB1) with its
associated duct burner (Emission Control DUCT1), the
facility must perform annual performance tests in
accordance with 40 CFR 60 KKKK 4400 to demonstrate
continuous compliance for the two combustion turbines
(Emission Sources TURB1 & TURB2). If the NOx emission
result from the performance test is less than or equal to
75 percent of the NOx emission limit for the turbine, then
the facility may reduce the frequency of subsequent
performance tests to once every 2 years (no more than 26
calendar months following the previous performance test).
If the results of any subsequent performance test exceed
75 percent of the NOx emission limit for the turbine, then



the facility must resume annual performance tests.

Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner outlet (Emission Control DUCT1) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NOx stack testing rather than CEMS on the duct burner outlet (Emission Control DUCT1) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NOx stack testing as described above of the turbine's emissions.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NOx emission limit is 74 ppm at 15 % O2 for > 50 MM Btu/hr new turbines firing # 2 fuel oil.

For combustion turbines with a duct burner, compliance with the NOx emission limit of 74 ppm at 15 % O2 when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB1 & DUCT1

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 74 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).



Condition 121: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (ii)

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: DUCT2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 121.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the combined 5.5 megawatt SOLAR/TAURUS combustion Turbine # 2 (Emission Source TURB2) burning #2 fuel oil (process 005) with its duct burner (Emission Control DUCT2) burning natural gas (Process 004) in Emission Unit 1-00000, will comply with the 65.0 parts per million by volume (dry, corrected to 15% O₂) limit in 6 NYCRR 227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with an annual stack testing using EPA Method 7E on the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b) rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 65.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the duct burner (Emission Control DUCT2) associated with the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b). The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and routine



compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner (DUCT2) associated with the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance with the NOx emission limit of 65.0 parts per million by volume (dry, corrected to 15% O2) when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB2 & DUCT2
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 65.0 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ANNUALLY
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 122: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4325, NSPS Subpart KKKK

Item 122.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: DUCT2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 122.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary



Combustion Turbines and it specifies the NO_x emission limits specified in Table 1 to this subpart. If the turbine's total heat input is greater than or equal to 50 percent natural gas, then the owner or operator must meet the corresponding limit for a natural gas-fired turbine when the turbine is burning that fuel. Similarly, when the turbine's total heat input is greater than 50 percent distillate oil and fuels other than natural gas, then the owner or operator must meet the corresponding limit for distillate oil and fuels other than natural gas for the duration of the time that the turbine burns that particular fuel.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions from the combined combustion turbine 2 (Emission Source TURB2) with its associated duct burner (Emission Control DUCT2), the facility must perform annual performance tests in accordance with 40 CFR 60 KKKK 4400 to demonstrate continuous compliance for the two combustion turbines (Emission Sources TURB1 & TURB2). If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, then the facility may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, then the facility must resume annual performance tests.

Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the duct burner outlet (Emission Control DUCT2) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NO_x stack testing rather than CEMS on the duct burner outlet (Emission Control DUCT2) associated with the combustion gas turbine in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

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The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NOx emission limit is 74 ppm at 15 % O2 for > 50 MM Btu/hr new turbines firing # 2 fuel oil.

For combustion turbines with a duct burner, compliance with the NOx emission limit of 74 ppm at 15 % O2 when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: Combined TURB2 & DUCT2

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 74 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 123: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (ii)

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 005

Emission Source: TURB1

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 123.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the 5.5 megawatt SOLAR/TAURUS combustion Turbine # 1 (Emission Source TURB1) in Emission Unit 1-00000 burning # 2 fuel oil (Process 005) will comply with the 65.0 parts per million



by volume (dry, corrected to 15% O₂) limit in 6 NYCRR 227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with an annual stack testing using EPA Method 7E on the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b) rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 65.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the gas combustion turbine (Emission Source TURB1) in accordance with 6 NYCRR 227-2.6(a)(2) and (b). The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion turbine (TURB1) in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 65.0 parts per million by volume (dry, corrected to 15% O₂) when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB1

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 65.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).



Condition 124: EPA Region 2 address.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 124.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB1

Item 124.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Condition 125: Date of Construction Notification - if a COM is used.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(a), NSPS Subpart A

Item 125.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB1

Item 125.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, postmarked within 15 days after such

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date;

4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and

7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Condition 126: Recordkeeping requirements.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 126.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB1

Item 126.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 127: Facility files for subject sources.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 127.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB1

Item 127.2:

The following files shall be maintained at the facility for all affected sources: all

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measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 128: Performance testing timeline.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 128.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB1

Item 128.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 129: Performance Test Methods - Waiver EU Level
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 129.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB1

Item 129.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

Condition 130: Prior notice.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 130.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001



TURB1 Process: 005 Emission Source:

Item 130.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 131: Performance testing facilities.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 131.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:

TURB1

Item 131.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 132: Number of required tests.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 132.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:

TURB1

Item 132.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 133: Availability of information.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 133.1:

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This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
TURB1 Process: 005 Emission Source:

Item 133.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 134: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4325, NSPS Subpart KKKK

Item 134.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: TURB1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 134.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the NOx emission
limits specified in Table 1 to this subpart. If the
turbine's total heat input is greater than or equal to 50
percent natural gas, then the owner or operator must meet
the corresponding limit for a natural gas-fired turbine
when the turbine is burning that fuel. Similarly, when
the turbine's total heat input is greater than 50 percent
distillate oil and fuels other than natural gas, then the
owner or operator must meet the corresponding limit for
distillate oil and fuels other than natural gas for the
duration of the time that the turbine burns that
particular fuel.

Since NYU Central Plant will not be using water or steam
injection to control NOx emissions from the combustion
turbine 1 (Emission Source TURB1) alone, the facility must
perform annual performance tests in accordance with 40 CFR
60 KKKK 4400 to demonstrate continuous compliance for the



two combustion turbines (Emission Sources TURB1 & TURB2). If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, then the facility may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, then the facility must resume annual performance tests.

Oxides of Nitrogen emissions from the 5.5 megawatt combustion turbine # 1 (Emission Source TURB1) in Emission Unit 1-00000 burning # 2 fuel oil (Process 005) will comply with the 74 parts per million by volume (dry, corrected to 15% O₂) limit for the combustion turbine alone. Compliance will be demonstrated with an annual stack testing rather than Continuous Emission Monitoring System (CEMS).

Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion turbine outlet (Emission Source TURB1) in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NO_x stack testing rather than CEMS on the combustion gas turbine outlet (Emission Source TURB1) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NO_x emission limit is 74 ppm at 15 % O₂ for > 50 MM Btu/hr new turbines firing # 2 fuel oil.

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 74 ppm at 15 % O₂ when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate

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without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB1

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 74 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 135: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4330, NSPS Subpart KKKK

Item 135.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 005

Emission Source: TURB1

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 135.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

40 CFR 60 KKKK 4330 - NSPS Stationary Combustion Turbine
NSPS - SO₂ emission limits.

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the sulfur dioxide
emission limit.

(a) Since the turbine is located in a continental area,
then the owner or operator must comply with either
paragraph (a)(1) or (a)(2) of this section. NYU has
agreed to comply with (a)(2) of this section.

(2) The owner or operator must not burn in the subject
stationary combustion turbine any fuel which contains
total potential sulfur emissions in excess of 0.060 lb
SO₂/MMBtu heat input. If the turbine simultaneously fires

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multiple fuels, then each fuel must meet this requirement.

This SO₂ compliance certification will initially be confirmed by stack testing and the test will be chosen by the stack testing firm, and likely will be one of EPA's Method 6 procedures.

NYU will maintain SO₂ compliance (following the initial stack test) by using compliant fuel oil monitored as lb/heat input, but more accurate as 500 ppm maximum sulfur content in the fuel oil, which translates as 0.05 % by weight maximum. Compliance with the sulfur dioxide emissions will be determined based on fuel firing rate and % sulfur analysis in the fuel oil which is 500 ppm maximum (0.05 % by weight).

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 0.060 pounds per million Btus

Reference Test Method: EPA Method 6

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 136: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2) (ii)

Item 136.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 005

Emission Source: TURB2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 136.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Oxides of Nitrogen emissions from the 5.5 megawatt SOLAR/TAURUS combustion Turbine # 2 (Emission Source TURB2) in Emission Unit 1-00000 burning # 2 fuel oil (Process 005) will comply with the 65.0 parts per million by volume (dry, corrected to 15% O₂) limit in 6 NYCRR



227-2.4(e) for combined cycle combustion turbines. Compliance will be demonstrated with an annual stack testing using EPA Method 7E on the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b) rather than Continuous Emission Monitoring System (CEMS).

Compliance with the 65.0 parts per million by volume (dry, corrected to 15% O₂) limit must be determined with a one hour average in accordance with section 227-2.6(a)(5) or (6) of this Subpart. Sources determining compliance under section 227-2.6(a)(6) of this Subpart may opt to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

Since NYU Central Plant will not be using water or steam injection to control NO_x emissions, the facility must perform annual performance tests. NYU has chosen NO_x stack testing rather than CEMS on the gas combustion turbine (Emission Source TURB2) in accordance with 6 NYCRR 227-2.6(a)(2) and (b). The facility will perform annual NO_x stack testing as described above of the turbine's emissions. Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion turbine (TURB2) associated with the combustion gas turbine in accordance with 6 NYCRR 227-2.6(a)(2) and (b).

For combustion turbines with a duct burner, compliance with the NO_x emission limit of 65.0 parts per million by volume (dry, corrected to 15% O₂) when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB2
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 65.0 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: 40 CFR 60 Appendix A, Method 7
Monitoring Frequency: ANNUALLY
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2011.
Subsequent reports are due every 12 calendar month(s).



Condition 137: EPA Region 2 address.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 137.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB2

Item 137.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Condition 138: Date of Construction Notification - if a COM is used.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(a), NSPS Subpart A

Item 138.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB2

Item 138.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, postmarked within 15 days after such

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date;

4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and

7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Condition 139: Recordkeeping requirements.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 139.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB2

Item 139.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 140: Facility files for subject sources.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 140.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB2

Item 140.2:

The following files shall be maintained at the facility for all affected sources: all

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measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 141: Performance testing timeline.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 141.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB2

Item 141.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 142: Performance Test Methods - Waiver EU Level
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 142.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source:
TURB2

Item 142.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

Condition 143: Prior notice.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 143.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001

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TURB2 Process: 005 Emission Source:

Item 143.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 144: Performance testing facilities.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 144.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
TURB2 Process: 005 Emission Source:

Item 144.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 145: Number of required tests.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 145.1:

This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
TURB2 Process: 005 Emission Source:

Item 145.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 146: Availability of information.
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 146.1:



This Condition applies to Emission Unit: 1-00000 Emission Point: 00001
TURB2 Process: 005 Emission Source:

Item 146.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 147: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 40CFR 60.4325, NSPS Subpart KKKK

Item 147.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001
Process: 005 Emission Source: TURB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 60 KKKK 4325 - NSPS Stationary Combustion Turbine
NSPS - NOx emission limits when the turbine burns both
natural gas and distillate oil (or some other combination
of fuels):

This condition is an NSPS regulation for Stationary
Combustion Turbines and it specifies the NOx emission
limits specified in Table 1 to this subpart. If the
turbine's total heat input is greater than or equal to 50
percent natural gas, then the owner or operator must meet
the corresponding limit for a natural gas-fired turbine
when the turbine is burning that fuel. Similarly, when
the turbine's total heat input is greater than 50 percent
distillate oil and fuels other than natural gas, then the
owner or operator must meet the corresponding limit for
distillate oil and fuels other than natural gas for the
duration of the time that the turbine burns that
particular fuel.

Since NYU Central Plant will not be using water or steam
injection to control NOx emissions from the combustion
turbine 2 (Emission Source TURB2) alone, the facility must
perform annual performance tests in accordance with 40 CFR
60 KKKK 4400 to demonstrate continuous compliance for the



two combustion turbines (Emission Sources TURB1 & TURB2). If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, then the facility may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, then the facility must resume annual performance tests.

Oxides of Nitrogen emissions from the 5.5 megawatt combustion turbine # 2 (Emission Source TURB2) in Emission Unit 1-00000 burning # 2 fuel oil (Process 005) will comply with the 74 parts per million by volume (dry, corrected to 15% O₂) limit for the combustion turbine alone. Compliance will be demonstrated with an annual stack testing rather than Continuous Emission Monitoring System (CEMS).

Performance will be confirmed with stack testing and routine compliance reporting, instead of Continuous Emissions Monitoring System (CEMS) on the combustion turbine outlet (Emission Source TURB 2) in accordance with 40 CFR 60 KKKK 4400.

The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Performance testing at the highest achievable load point is acceptable if at least 75 percent of peak load cannot be achieved in practice. Three separate test runs (minimum 20 minutes each) are required for each performance test.

NYU has chosen NO_x stack testing rather than CEMS on the combustion gas turbine outlet (Emission Source TURB2) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

NYU has chosen NO_x stack testing rather than CEMS on the combustion gas turbine outlet (Emission Source DUCT2) in accordance with 40 CFR 60 KKKK 4400. The facility will perform annual NO_x stack testing as described above of the turbine's emissions.

The two combustion turbines (Emission Sources TURB1 & TURB2) engines are identical and each combustion turbine is rated at 60.5 MM Btu/hr. The NO_x emission limit is 74 ppm at 15 % O₂ for > 50 MM Btu/hr new turbines firing # 2 fuel oil.

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For combustion turbines with a duct burner, compliance with the NOx emission limit of 74 ppm at 15 % O2 when firing # 2 fuel oil, compliance will be based on the combination of the combustion turbine and its duct burner when both fire, and on the combustion turbine alone when not duct firing. The duct burner will never operate without its concomitant combustion turbine.

Manufacturer Name/Model Number: TURB2

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 74 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix A, Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 148: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:40CFR 60.4330, NSPS Subpart KKKK

Item 148.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-00000

Emission Point: 00001

Process: 005

Emission Source: TURB2

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 148.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

40 CFR 60 KKKK 4330 - NSPS Stationary Combustion Turbine
NSPS - SO2 emission limits.

This condition is an NSPS regulation for Stationary Combustion Turbines and it specifies the sulfur dioxide emission limit.

(a) Since the turbine is located in a continental area, then the owner or operator must comply with either paragraph (a)(1) or (a)(2) of this section. NYU has



agreed to comply with (a)(2) of this section.

(2) The owner or operator must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 0.060 lb SO₂/MMBtu heat input. If the turbine simultaneously fires multiple fuels, then each fuel must meet this requirement.

This SO₂ compliance certification will initially be confirmed by stack testing and the test will be chosen by the stack testing firm, and likely will be one of EPA's Method 6 procedures.

NYU will maintain SO₂ compliance (following the initial stack test) by using compliant fuel oil monitored as lb/heat input, but more accurate as 500 ppm maximum sulfur content in the fuel oil, which translates as 0.05 % by weight maximum. Therefore, compliance with the sulfur dioxide emissions will be determined based on fuel firing rate and % sulfur analysis in the fuel oil which is 500 ppm maximum (0.05 % by weight).

Manufacturer Name/Model Number: TURB2
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 0.060 pounds per million Btus
Reference Test Method: EPA Method 6
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 149: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.4 (b)

Item 149.1:
The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002

Item 149.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation which utilizes a continuous opacity



monitoring system (COMS) shall include the following in their quarterly excess emission reports:

- 1) Magnitude, date, and time of each exceedence;
- 2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- 3) Date, time, and duration of each period of COMS downtime, and the corrective action for each period of downtime;
- 4) Total time the COMS is required to record data during the reporting period;
- 5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and
- 6) Such other requirements as the Department may deem necessary in order to enforce Article 19 of the Environmental Conservation Law (ECL).

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2010.

Subsequent reports are due every 3 calendar month(s).

Condition 150: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 150.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 150.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 % opacity except for one six minute period per hour, not to exceed 27 percent, based upon the

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six minute average utilizing a continuous opacity monitor (COM).

Upon repowering with the two new turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (Emission Controls DUCT1 & DUCT2), scheduled for 6/30/2010, the seven identical reciprocating Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) with waste heat boilers at the plant, may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year.

The existing COMS at Emission Point 00002 for the seven engines in Emission Unit 2-00000 will remain at the facility. This COMS is voluntary since it does not meet the 250 MMBtu/hr heat input threshold of the regulation governing the COMS. NYU will voluntarily use COMS at Emission Point 00002, and all issues that would ordinarily be applicable such as maintenance, reporting and recordkeeping will be voluntarily performed. NYU historically has maintained COMS compliance.

Manufacturer Name/Model Number: COMS
Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2010.
Subsequent reports are due every 3 calendar month(s).

Condition 151: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 151.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002
Process: 003

Item 151.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired internal combustion engines which



are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each internal combustion engine which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2010.



Subsequent reports are due every 3 calendar month(s).

Condition 152: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 152.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002
Process: 003

Item 152.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to

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revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: DAILY
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 153: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)

Item 153.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002
Process: 003

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 153.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

During the term of this permit, the facility shall perform the following:

1. Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
2. Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
3. Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.

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4. Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Upon repowering with the two new turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (Emission Controls DUCT1 & DUCT2; respectively), scheduled for 6/30/2010, the seven identical reciprocating Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) with waste heat boilers at the plant, will be delegated to participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 154: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)

Item 154.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG01

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 154.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NOx RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours,



engine gas analysis, and fuel consumption versus power output of the unit.

The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop readings.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

NYU maintains detailed operating records of pressures, temperatures, greasing, oiling, etc. The seven engines are maintained around the clock by a team of licensed New York City engineers.

External vendor engine maintenance and repair include items such as:

- a. Major overhaul of engines
- b. Top end overhaul of engines
- c. Replace crankcase breather systems
- d. Repair aftercooler
- e. Replace oil cooler
- f. Recondition governor and fuel injection pump (new barrels and plungers)

Manufacturer Name/Model Number: Engine 01 - Caterpillar D399 (850 KW or 1,000 hp mechanical)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.



Subsequent reports are due every 6 calendar month(s).

Condition 155: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2) (ii)

Item 155.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002
Process: 003 Emission Source: ENG01

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 155.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

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Permit ID: 2-6205-00246/00005

Facility DEC ID: 2620500246



A variance from full compliance with NOx emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NOx emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NOx emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

The NYSDEC has recently implemented regulation 6 NYCRR 227-2.4(f) for controlling NOx emissions from such engines, which requires engine owners and operates to have a plan in place by July 1, 2004 to meet compliance for a reduced rate of NOx emissions. On June 30, 2004 NYU has submitted Engine NOx RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NOx emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NOx emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (DUCT1 & DUCT2; respectively). Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000) may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year).

Manufacturer Name/Model Number: ENG01 - Caterpillar D399 (850 KW or 1,000 hp)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 grams per brake horsepower-hour

New York State Department of Environmental Conservation

Permit ID: 2-6205-00246/00005

Facility DEC ID: 2620500246



Reference Test Method: Method 7, or 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 156: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)

Item 156.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG02

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 156.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.

The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled.

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Fuel oil filters and air filters by pressure drop readings.

- 2. Every 2,000 hours: Valve lash adjustments and crankcase filter change
- 3. Every 12,000 hours: Engine top end overhaul.
- 4. Every 24,000 hours: Engine top and bottom overhaul.

NYU maintains detailed operating records of pressures, temperatures, greasing, oiling, etc. The seven engines are maintained around the clock by a team of licensed New York City engineers.

External vendor engine maintenance and repair include items such as:

- a. Major overhaul of engines
- b. Top end overhaul of engines
- c. Replace crankcase breather systems
- d. Repair aftercooler
- e. Replace oil cooler
- f. Recondition governor and fuel injection pump (new barrels and plungers)

Manufacturer Name/Model Number: Engine 02 - Caterpillar D399 (850 KW or 1,000 hp mechanical)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 157: Compliance Certification Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement:6 NYCRR 227-2.4 (f) (2) (ii)

Item 157.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG02

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 157.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

A variance from full compliance with NO_x emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NO_x emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of



CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 158.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.

The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop readings.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

NYU maintains detailed operating records of pressures, temperatures, greasing, oiling, etc. The seven engines are maintained around the clock by a team of licensed New York City engineers.

External vendor engine maintenance and repair include items such as:

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- a. Major overhaul of engines
- b. Top end overhaul of engines
- c. Replace crankcase breather systems
- d. Repair aftercooler
- e. Replace oil cooler
- f. Recondition governor and fuel injection pump (new barrels and plungers)

Manufacturer Name/Model Number: Engine 03 - Caterpillar D399 (850 KW or 1,000 hp mechanical)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 159: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2) (ii)

Item 159.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG03

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 159.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must



comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

A variance from full compliance with NO_x emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NO_x emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

The NYSDEC has recently implemented regulation 6 NYCRR 227-2.4(f) for controlling NO_x emissions from such engines, which requires engine owners and operates to have a plan in place by July 1, 2004 to meet compliance for a reduced rate of NO_x emissions. On June 30, 2004 NYU has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing



the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (DUCT1 & DUCT2; respectively). Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000) may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year).

Manufacturer Name/Model Number: ENG03 - Caterpillar D399 (850 KW or 1,000 hp)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 grams per brake horsepower-hour

Reference Test Method: Method 7, or 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 160: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)

Item 160.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG04

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 160.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.



The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop readings.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

NYU maintains detailed operating records of pressures, temperatures, greasing, oiling, etc. The seven engines are maintained around the clock by a team of licensed New York City engineers.

External vendor engine maintenance and repair include items such as:

- a. Major overhaul of engines
- b. Top end overhaul of engines
- c. Replace crankcase breather systems
- d. Repair aftercooler
- e. Replace oil cooler
- f. Recondition governor and fuel injection pump (new barrels and plungers)

Manufacturer Name/Model Number: Engine 04 - Caterpillar D399 (850 KW or 1,000 hp mechanical)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).



Condition 161: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2) (ii)

Item 161.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002
Process: 003 Emission Source: ENG04

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 161.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

A variance from full compliance with NO_x emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood



to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NO_x emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

The NYSDEC has recently implemented regulation 6 NYCRR 227-2.4(f) for controlling NO_x emissions from such engines, which requires engine owners and operators to have a plan in place by July 1, 2004 to meet compliance for a reduced rate of NO_x emissions. On June 30, 2004 NYU has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (DUCT1 & DUCT2; respectively). Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000) may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year).

Manufacturer Name/Model Number: ENG04 - Caterpillar D399 (850 KW or 1,000 hp)
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 9.0 grams per brake horsepower-hour

New York State Department of Environmental Conservation

Permit ID: 2-6205-00246/00005

Facility DEC ID: 2620500246



Reference Test Method: Method 7, or 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 162: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)

Item 162.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG05

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 162.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.

The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled.



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

A variance from full compliance with NO_x emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NO_x emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of



stack test completion.

The NYSDEC has recently implemented regulation 6 NYCRR 227-2.4(f) for controlling NOx emissions from such engines, which requires engine owners and operators to have a plan in place by July 1, 2004 to meet compliance for a reduced rate of NOx emissions. On June 30, 2004 NYU has submitted Engine NOx RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NOx emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NOx emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (DUCT1 & DUCT2; respectively). Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000) may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year).

Manufacturer Name/Model Number: ENG05 - Caterpillar D399 (850 KW or 1,000 hp)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 grams per brake horsepower-hour

Reference Test Method: Method 7, or 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 164: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)

Item 164.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG06

Regulated Contaminant(s):



CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 164.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.

The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop readings.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

NYU maintains detailed operating records of pressures, temperatures, greasing, oiling, etc. The seven engines are maintained around the clock by a team of licensed New York City engineers.

External vendor engine maintenance and repair include items such as:

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- a. Major overhaul of engines
- b. Top end overhaul of engines
- c. Replace crankcase breather systems
- d. Repair aftercooler
- e. Replace oil cooler
- f. Recondition governor and fuel injection pump (new barrels and plungers)

Manufacturer Name/Model Number: Engine 06 - Caterpillar D399 (850 KW or 1,000 hp mechanical)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).

Condition 165: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2) (ii)

Item 165.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG06

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 165.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must



comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

A variance from full compliance with NO_x emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NO_x emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

The NYSDEC has recently implemented regulation 6 NYCRR 227-2.4(f) for controlling NO_x emissions from such engines, which requires engine owners and operates to have a plan in place by July 1, 2004 to meet compliance for a reduced rate of NO_x emissions. On June 30, 2004 NYU has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing



the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (DUCT1 & DUCT2; respectively). Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000) may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year).

Manufacturer Name/Model Number: ENG06 - Caterpillar D399 (850 KW or 1,000 hp)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 grams per brake horsepower-hour

Reference Test Method: Method 7, or 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 166: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)

Item 166.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000

Emission Point: 00002

Process: 003

Emission Source: ENG07

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 166.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.



The seven Caterpillar D399 stationary internal combustion engines (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each. These seven engines fire # 2 fuel oil (Process 003) only, and are lean burn internal combustion engines with compression ignition source.

Engine Maintenance Compliance:

NYU will continue to maintain its normal engine-maintenance program which includes the following routine items:

1. Every 1,000 hours: Oil change and filters sampled. Fuel oil filters and air filters by pressure drop readings.
2. Every 2,000 hours: Valve lash adjustments and crankcase filter change
3. Every 12,000 hours: Engine top end overhaul.
4. Every 24,000 hours: Engine top and bottom overhaul.

NYU maintains detailed operating records of pressures, temperatures, greasing, oiling, etc. The seven engines are maintained around the clock by a team of licensed New York City engineers.

External vendor engine maintenance and repair include items such as:

- a. Major overhaul of engines
- b. Top end overhaul of engines
- c. Replace crankcase breather systems
- d. Repair aftercooler
- e. Replace oil cooler
- f. Recondition governor and fuel injection pump (new barrels and plungers)

Manufacturer Name/Model Number: Engine 07 - Caterpillar D399 (850 KW or 1,000 hp mechanical)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2010.

Subsequent reports are due every 6 calendar month(s).



Condition 167: Compliance Certification
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2) (ii)

Item 167.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00000 Emission Point: 00002
Process: 003 Emission Source: ENG07

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 167.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The seven identical Caterpillar D399 stationary diesel internal combustion reciprocating engines (Emission Sources ENG01, ENG01, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000, are 850 KW (1,000 hp mechanical) each and provide electricity with waste heat recovery boilers. These seven engine-generators fire diesel oil (# 2 fuel oil) are lean burn internal combustion engines with compression ignition source. Each engine is rated at 1,000 horsepower and is early 1980s vintage) for primary power production.

Effective April 1, 2005, any owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe non-attainment area, which provides primary power or is used for peak shaving generation, must comply with the following emission limit for lean burn engines firing fuels other than natural gas: 2.3 grams per brake horsepower-hour. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 2.3 grams per brake horsepower-hour beginning April 1, 2005 in the severe ozone non-attainment area. Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

A variance from full compliance with NO_x emission limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood



to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the seven engine-generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07) in Emission Unit 2-00000. The variance for the NO_x emission limit of 9.0 grams per brake horsepower-hour for all of the seven generators at the facility remains, even after 6/30/2010, at which time the repowered plant becomes operational.

Stack testing will be required in order to demonstrate compliance with the 9.0 grams per brake horsepower-hour NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

The NYSDEC has recently implemented regulation 6 NYCRR 227-2.4(f) for controlling NO_x emissions from such engines, which requires engine owners and operates to have a plan in place by July 1, 2004 to meet compliance for a reduced rate of NO_x emissions. On June 30, 2004 NYU has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current seven diesel engines use, in view of the major repowering energy-saving, equipment replacement project. The seven diesel engine generators are nearing the end of their useful life cycles and will be replaced with state-of-the-art dual-fuel turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (DUCT1 & DUCT2; respectively). Upon repowering with the two new turbines (scheduled for 6/30/2010), all of the seven 850 kilowatts each Caterpillar D399 diesel engine generators (Emission Sources ENG01, ENG02, ENG03, ENG04, ENG05, ENG06 & ENG07 in Emission Unit 2-000000) may participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program, and will operate no more than 2,000 hours/7 engines/year).

Manufacturer Name/Model Number: ENG07 - Caterpillar D399 (850 KW or 1,000 hp)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 grams per brake horsepower-hour

Reference Test Method: Method 7, or 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

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.

STATE ONLY APPLICABLE REQUIREMENTS
The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 168: Contaminant List
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable State Requirement:ECL 19-0301

Item 168.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007446-09-5
Name: SULFUR DIOXIDE



CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

Condition 169: Unavoidable noncompliance and violations
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable State Requirement: 6 NYCRR 201-1.4

Item 169.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as

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determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 170: Compliance Demonstration
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable State Requirement:6 NYCRR 201-5.3 (b)

Item 170.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 170.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required in this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept of Environmental Conservation
Region 2
47-40 21st Street
Long Island City, NY 11101

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 171: Air pollution prohibited
Effective between the dates of 01/19/2010 and 01/18/2015

Applicable State Requirement:6 NYCRR 211.2

Item 171.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**** Emission Unit Level ****

Condition 172: Compliance Demonstration
Effective between the dates of 01/19/2010 and 01/18/2015

Air Pollution Control Permit Conditions



Applicable State Requirement:6 NYCRR 227-1.4 (a)

Item 172.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00000 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 172.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Any person who owns stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in Appendix B of Title 40, Part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title, for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. When gas is the only fuel burned, monitoring and recording of opacity is not required.

The total heat input from the three boilers in Emission Unit 1-00000 & Emission Point 00001 is as follows:

Boiler 0BLRA	65 MM Btu/hr
Boiler 0BLRB	65 MM Btu/hr
Boiler 0BLRC	65 MM Btu/hr

Total heat capacity from the above stationary combustion installation is 195 MM Btu/hr, which does not exceed the 250 MM Btu/hr applicability.

The existing continuous opacity monitoring system (COMS) unit will remain on the stack of Emission Point 00001. The existing COMS will be utilized as voluntary COMS, and the COMS is not required by opacity regulation 6 NYCRR

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227-1.3(a) since the total heat input for the combustion sources (excluding gas turbines) is < 250 MM Btu/hr threshold.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60, Appendix B

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2010.

Subsequent reports are due every 3 calendar month(s).

