



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6304-00268/00015
Mod 0 Effective Date: 09/26/2008 Expiration Date: 09/25/2013

Mod 1 Effective Date: 06/25/2007 Expiration Date: No expiration date.

Mod 2 Effective Date: 06/15/2010 Expiration Date: 09/25/2013

Permit Issued To: SIMSMETAL EAST LLC
1 LINDEN AVE
JERSEY CITY, NJ 07305

Contact: FRED CORNELL
SIMS HUGO NEU EAST
1 JERSEY AVE
JERSEY CITY, NJ 07302
(201) 333-4300

Facility: SIMSMETAL EAST LLC-QUEENS PLANT
30-27 GREENPOINT AVE
LONG ISLAND CITY, NY 11101

Description:

PERMIT DESCRIPTION
Sims Metal East LLC-Queens Plant
DEC ID # 2-6304-00268/00015 (Ren 1, Mod 2)

The facility is applying for NO_x emission reduction credits due to the removal of the 9,630 HP Main generator (Emission Source 0001 in Emission Unit 2-00002), with rated output of 6,000 HP.

This is a Title V minor permit modification for an Air Title V Facility (ATV) Permit to create NO_x ERCs for the removal of the Main Generator, the 6000 bhp diesel fired engine generator, identified as Emission Source 00001 in Emission Unit 2-00002, and as a result 33.44 tons of NO_x emission reduction credits have been created.

Permanent removal from service of the Main generator produces certifiable, quantifiable, permanent and enforceable emission reduction credits that could be transferred via NYSDEC registry to other parties requiring offsets in the NYC - Metropolitan Severe Non-Attainment Area for NO_x.



The "Main Generator" (a 6000 bhp generator- identified as Emission Source 00001 in Emission Unit 2-0002) has been permanently shut down on 10/1/2006, and in accordance with Part 231-10 by permanently shutting this source down, 33.44 tons of NOx "Emission Reduction Credits" have been created.

The facility's current Title V permit limited the operation of the Main Generator (Emission Source 00001) to 2,200 hours; RACT for this emission source is 2.3 gm/bhp-hr; and the Main Generator was 6000 bhp. Even though the facility had a RACT variance; for the purposes of calculating ERC's the most stringent applicable/stipulated limits is applied which is 2.3 gm/bhp-hr. Therefore, for the Main Generator, the Emission Reduction Credits are as follow:

$$6000 \text{ bhp} \times 2.3 \text{ gm/bhp-hr} \times 2200 \text{ hrs/yr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2000 lbs} = 33.44 \text{ tons of NOx}$$

SimsMetal East LLC-Queens Plant (formerly known as Hugo Neu East-Queens Yard and also as Sims Hugo Neu East-Queens Yard) is a scrap metal processing and recycling facility with all electricity generated on-site using two (2) lean burn diesel internal combustion engine-generator sets. These two units are fueled by #2 diesel fuel oil and can be controlled individually, depending on power needs. The two units are identified as:

1. Cummins Generator #1 - 300 KW diesel (Emission Source 0005B in Emission Unit 2-00002), with its corresponding stack, Emission Point 0005B. The facility is limiting the combined hours of operation for the two identical Cummins Generators (Cummins #1 & Cummins #2) to a maximum of 8,760 hours/year. The average fuel consumption for Cummins #1 is 11.4 gallons/hour, and that for Cummins #2 is also 11.4 gallons/hour. The annual fuel consumption for the combined Cummins #1 & Cummins #2 generators is 99,864 gallons. Cummins #1 & Cummins #2 Generators (Emission Source 00001 in Emission Unit 2-00002) are used as the primary source of electric power generation based on facility demand.

The Maximum rated Output from each of Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the combined NOx emissions are calculated as:

$$402 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 6.0 \text{ gm/bhp-hr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2,000 lbs} = 23.27 \text{ tons/yr of NOx emissions}$$

Annual Fuel Consumption of #2 fuel oil for the combined Cummins #1 & Cummins #2:



$$8,760 \text{ hours/year} \times 11.4 \text{ gallons/hour} = 99,864 \text{ gallons/year}$$

2. Cummins Generator #2 - 300 KW diesel (Emission Source 0005C in Emission Unit 2-00002), with its corresponding stack, Emission Point 0005C. The facility is limiting the combined hours of operation for the two identical Cummins Generators (Cummins #1 & Cummins #2) to a maximum of 8,760 hours/year. The average fuel consumption for Cummins #1 is 11.4 gallons/hour, and that for Cummins #2 is also 11.4 gallons/hour. The annual fuel consumption for the combined Cummins #1 & Cummins #2 generators is 99,864 gallons. Cummins #1 & Cummins #2 Generators (Emission Source 00001 in Emission Unit 2-00002) are used as the primary source of electric power generation based on facility demand.

The Maximum rated Output from each of the Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the combined NOx emissions are calculated as:

$$402 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 6.0 \text{ gm/bhp-hr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 23.27 \text{ tons/yr of NOx emissions}$$

Annual Fuel Consumption of #2 fuel oil for the Combined Cummins #1 & Cummins #2:

$$8,760 \text{ hours/year} \times 11.4 \text{ gallons/hour} = 99,864 \text{ gallons/year}$$

3. Two identical 1,000 KW each Cummins Plastics Recycling #1 & #2 Diesel Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) for the Plastics Recycling operations at the facility. The combined hours of operation for these two Plastics Recycling generators is limited to 8,760/year. The clean burning technology provided by this equipment enables up to 8,760 hours of operation/year while limiting NOx RPTE (Restricted Potential to Emit) to approximately 51.02 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit. The Maximum Rated Output from each of the Plastics Recycling Generators is 1,322 bhp, and it is expected to emit 4.0 gm/bhp-hr of NOx emissions. The combined hours of operation for the two new identical Cummins Plastics Recycling #1 & #2 (Emission Sources 0005D & 0005E) is up to 8,760 hours/year based on facility demand. The average fuel consumption is 47.9 gallons/hour. The annual fuel consumption is up to 419,604 gallons of diesel fuel.

The Maximum Rated Output from the two combined Plastics Recycling Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) is



1,322 bhp, therefore the combined NOx emissions are calculated as:

$$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 51.02 \text{ tpy of NOx emissions}$$

Annual Fuel Consumption of #2 fuel oil for the two combined Plastics Recycling Generators:

$$8,760 \text{ hours/year} \times 47.9 \text{ gallons/hour} = 419,604 \text{ gallons/year}$$

$$\text{Total fuel consumption of \#2 fuel oil from the four generators} = 99,864 + 419,604 = 519,468 \text{ gallons/year}$$

Total maximum NOx emissions from the four generators = Combined Cummins #1 & #2 + Combined Plastics Recycling = 23.27 + 51.02 = 74.29 tpy of NOx emissions

All four engines are fired with #2 fuel oil and the total annual fuel usage is approximately 419,604 gallons. All four units are installed in the Generator Building and each of the units has a separate stack and operates at separate times, depending on the requirements for electricity. The #2 fuel oil used by each engine generator and the hours of operation are recorded and maintained on site.

The Title V Permit contains a complete listing of the applicable Federal, State and compliance monitoring requirements for the facility, its emission units and emission points.

The facility is required to comply with 6 NYCRR 225-1.2(a)(2), the sulfur in fuel limit of 0.20 % by weight, 6 NYCRR 227-1.3(a), the smoke emission limitations of 20 % opacity limit, 6 NYCRR 227-2, the Reasonably Available Control Technology (RACT) for NOx and 6 NYCRR 2277-2.4(f)(2)(ii), with the 6.0 gm/bhp-hr NOx emission limitation variance for lean engines firing diesel fuel for the Cummins #1 & Cummins #2 Generators, and with the 4.0 gm/bhp-hr NOx emission limitation variance for lean engines firing diesel fuel for the two identical Cummins Plastics Recycling Generators. The facility is required to comply with 6 NYCRR 227-2.6(a)(7), testing, monitoring and reporting for internal combustion engines and 6 NYCRR 227-2.6(c), stack test requirements by conducting a stack test on each of the four diesel generators (300 KW Cummins #1, 300 KW Cummins #2 Generator, and the two new identical 1,000 KW each Cummins Plastic Recycling Generators) once during the term of this permit. The facility can be exempt from stack testing of the two identical 1,000 KW each Cummins Plastic Recycling Generators (Emission



Sources 0005D & 0005E) if they meet EPA Tier II (40 CFR 89) emission requirements as recently proposed in the New Source Performance Standards published by USEPA.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c)(21), including one fuel oil storage tank with storage capacities <300,000 bbls in the main fuel tank.

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
 - Permit Modifications, Suspensions and 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



Condition 2-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 2-1.1:

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 4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Expired by Mod No: 2

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 and Revocations by the Department

Applicable State Requirement: 6 NYCRR 621.14

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



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)

Expired by Mod No: 2

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: 2-6304-00268/00015

Facility DEC ID: 2630400268



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: SIMSMETAL EAST LLC
1 LINDEN AVE
JERSEY CITY, NJ 07305

Facility: SIMSMETAL EAST LLC-QUEENS PLANT
30-27 GREENPOINT AVE
LONG ISLAND CITY, NY 11101

Authorized Activity By Standard Industrial Classification Code:
5093 - SCRAP AND WASTE MATERIALS

Mod 0 Permit Effective Date: 09/26/2008

Permit Expiration Date: 09/25/2013

Mod 2 Permit Effective Date: 06/15/2010

Permit Expiration Date: 09/25/2013



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 40 CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR 200.3: False statement
- 24 6 NYCRR Subpart 201-6: Emission Unit Definition
- 25 6 NYCRR 201-6.5 (g): Non Applicable requirements
- 26 6 NYCRR 201-7.2: Facility Permissible Emissions
- *27 6 NYCRR 201-7.2: Capping Monitoring Condition
- *28 6 NYCRR 201-7.2: Capping Monitoring Condition
- *29 6 NYCRR 201-7.2: Capping Monitoring Condition
- *30 6 NYCRR 201-7.2: Capping Monitoring Condition
- *31 6 NYCRR 201-7.2: Capping Monitoring Condition
- *32 6 NYCRR 201-7.2: Capping Monitoring Condition
- 33 6 NYCRR 212.10 (a) (1): Applicability of Reasonably Available Control Technology
- 34 6 NYCRR 225.1 (a) (3): Compliance Certification
- 35 6 NYCRR Subpart 227-2: Compliance Certification
- 36 6 NYCRR Subpart 227-2: Compliance Certification
- 37 6 NYCRR 227-2.6 (a) (7): Compliance Certification
- 38 6 NYCRR 227-2.6 (a) (7): Compliance Certification
- 39 40 CFR 60.4206, NSPS Subpart III: Duration of emission standards for new stationary compression ignition IC engines
- 40 40 CFR 60.4208, NSPS Subpart III: Stationary CI-IC Engines -



Installation and importing deadlines for engines produced in the previous model year

Emission Unit Level

- 41 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 42 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=2-00002,EP=00001,Proc=002,ES=00001

- 2-1 6 NYCRR Subpart 231-10: 33.44 tons of NOx Emission Reduction Credits have been created.

EU=2-00002,EP=0005B,Proc=002,ES=0005B

- 55 6 NYCRR 227-1.3 (a): Compliance Certification
- 56 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 57 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 58 6 NYCRR 227-2.5 (c): Compliance Certification
- 59 6 NYCRR 227-2.6: Compliance Certification
- 60 6 NYCRR 227-2.6 (a) (2): Compliance Certification
- 61 6 NYCRR 227-2.6 (c): Compliance Certification
- 62 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=2-00002,EP=0005C,Proc=002,ES=0005C

- 63 6 NYCRR 227-1.3 (a): Compliance Certification
- 64 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 65 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 66 6 NYCRR 227-2.5 (c): Compliance Certification
- 67 6 NYCRR 227-2.6: Compliance Certification
- 68 6 NYCRR 227-2.6 (a) (2): Compliance Certification
- 69 6 NYCRR 227-2.6 (c): Compliance Certification
- 70 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=2-00002,EP=0005D,Proc=002,ES=0005D

- 71 6 NYCRR 227-1.3 (a): Compliance Certification
- 72 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 73 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 74 6 NYCRR 227-2.5 (c): Compliance Certification
- 75 6 NYCRR 227-2.6: Compliance Certification
- 76 6 NYCRR 227-2.6 (a) (2): Compliance Certification
- 77 6 NYCRR 227-2.6 (c): Compliance Certification
- 78 6 NYCRR 227.2 (b) (1): Compliance Certification
- 79 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 80 40CFR 60.9, NSPS Subpart A: Availability of information.
- 81 40CFR 60.12, NSPS Subpart A: Circumvention.
- 82 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 83 40CFR 60.14, NSPS Subpart A: Modifications.
- 84 40CFR 60.15, NSPS Subpart A: Reconstruction.
- 85 40CFR 60.4200, NSPS Subpart III: Compliance Certification
- 86 40CFR 60.4200, NSPS Subpart III: Compliance Certification
- 87 40CFR 60.4204(b), NSPS Subpart III: Compliance Certification
- 88 40CFR 60.4204(b), NSPS Subpart III: Compliance Certification
- 89 40CFR 60.4207, NSPS Subpart III: Compliance Certification
- 90 40CFR 60.4207(a), NSPS Subpart III: Compliance Certification
- 91 40CFR 60.4207(a), NSPS Subpart III: Compliance Certification



- 92 40CFR 60.4207(a), NSPS Subpart III: Compliance Certification
- 93 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 94 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 95 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 96 40CFR 60.4207(c), NSPS Subpart III: Compliance Certification
- 97 40CFR 60.4209(b), NSPS Subpart III: Compliance Certification
- 98 40CFR 60.4211(d)(2), NSPS Subpart III: Compliance Certification
- 99 40CFR 60.4212, NSPS Subpart III: Compliance Certification

EU=2-00002,EP=0005E,Proc=002,ES=0005E

- 100 6 NYCRR 227-1.3 (a): Compliance Certification
- 101 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 102 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 103 6 NYCRR 227-2.5 (c): Compliance Certification
- 104 6 NYCRR 227-2.6: Compliance Certification
- 105 6 NYCRR 227-2.6 (a) (2): Compliance Certification
- 106 6 NYCRR 227-2.6 (c): Compliance Certification
- 107 6 NYCRR 227.2 (b) (1): Compliance Certification
- 108 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 109 40CFR 60.9, NSPS Subpart A: Availability of information.
- 110 40CFR 60.12, NSPS Subpart A: Circumvention.
- 111 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 112 40CFR 60.14, NSPS Subpart A: Modifications.
- 113 40CFR 60.15, NSPS Subpart A: Reconstruction.
- 114 40CFR 60.4200, NSPS Subpart III: Compliance Certification
- 115 40CFR 60.4200, NSPS Subpart III: Compliance Certification
- 116 40CFR 60.4204(b), NSPS Subpart III: Compliance Certification
- 117 40CFR 60.4204(b), NSPS Subpart III: Compliance Certification
- 118 40CFR 60.4207, NSPS Subpart III: Compliance Certification
- 119 40CFR 60.4207(a), NSPS Subpart III: Compliance Certification
- 120 40CFR 60.4207(a), NSPS Subpart III: Compliance Certification
- 121 40CFR 60.4207(a), NSPS Subpart III: Compliance Certification
- 122 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 123 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 124 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 125 40CFR 60.4207(c), NSPS Subpart III: Compliance Certification
- 126 40CFR 60.4209(b), NSPS Subpart III: Compliance Certification
- 127 40CFR 60.4211(d)(2), NSPS Subpart III: Compliance Certification
- 128 40CFR 60.4212, NSPS Subpart III: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 129 ECL 19-0301: Contaminant List
- 2-2 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 2-3 6 NYCRR Subpart 201-5: Emission Unit Definition
- 2-4 6 NYCRR 211.2: Air pollution prohibited

Emission Unit Level

- 2-5 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 2-6 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 or a toxic 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 any of the above conditions 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) through (4) 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 paragraph (1) through (4) of this section must also be identified in the 6 month monitoring report required above.

If the permittee seeks to have a violation excused as provided in 201-1.4, the permittee shall report such violations as required under 201-1.4(b). However, in no case may reports of any deviation be on a less frequent basis than those described in paragraphs (1) through (4) above. 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.

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 Compliance Monitoring and Enforcement (BCME) 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 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification



Effective between the dates of 09/26/2008 and 09/25/2013

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 the Administrator (or his or her representative) as well

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



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 Compliance Monitoring and Enforcement (BCME) 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 BCME is as follows:

NYSDEC
Bureau of Compliance Monitoring
and Enforcement
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 7/30/2009.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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.

Monitoring Frequency: ANNUALLY



Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires Prohibited at Industrial and Commercial Sites
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR Part 215

Item 9.1:

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, refuse, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.



Condition 11: Recycling and Salvage
Effective between the dates of 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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 09/26/2008 and 09/25/2013

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.
Effective between the dates of 09/26/2008 and 09/25/2013



Applicable Federal Requirement:40 CFR Part 68

Item 21.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

Condition 22: Recycling and Emissions Reduction
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 82, Subpart F

Item 22.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 23: False statement
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 200.3

Item 23.1:

No person shall make a false statement in connection with applications, plans, specifications and/or reports submitted pursuant to this Subchapter.

Condition 24: Emission Unit Definition
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR Subpart 201-6



Item 24.1(From Mod 2):

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

Emission Unit: 2-00002

Emission Unit Description:

Emission Unit 2-00002 is for the generation of electricity via # 2 fuel oil fired engine generator sets for facility operation. Process 002 consists of # 2 diesel fuel fired in the four engine-generator sets in Emission Unit 2-00002. This emission unit consists of the following four engine-generators:

1. The first Cummins Generator # 1 - maximum rated output of 402 bhp (300 KW) diesel as a backup is defined as Emission Source 0005B with corresponding Emission Point 0005B. The combined Cummins # 1 & the Cummins # 2 Generators (Emission Sources 0005B & 0005C; respectively) are limited to a combined 8,760 hours of operation per year.

2. The second Cummins Generator # 2 - maximum rated output of 402 bhp (300 KW) diesel as backup is defined as Emission Source 0005C with corresponding Emission Point 0005C. The combined Cummins # 1 & the Cummins # 2 Generators are limited to a combined 8,760 hours of operation per year.

4. The two identical Cummins Plastics Recycle Generators - maximum rated output of 1,322 bhp (1000 KW) each diesel as primary for Plastics Recycling (Emission Sources 0005D & 0005E) with corresponding Emission Points 0005D & 0005E; respectively. The two Plastics Recycle Generators are to operate up to 8,760 hours of combined operation per year.

Building(s): GENERATOR

Condition 25: Non Applicable requirements
Effective between the dates of 09/26/2008 and 09/25/2013

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 Subpart 231-2

Reason: MINOR PERMIT MODIFICATION: A minor permit modification is

defined in 6 NYCRR 201-6.7(c) as one that does not result



in a net emissions increase. A net emissions increase is the project emission potential and every credible emission increase. The project emission potential is the difference between prior actual annual emissions or prior allowable annual emissions, whichever is less, and the subsequent maximum annual potential of each such emission unit. A credible emission increase is any increase from a physical change in, or a change in the method of operation and is qualified as the difference between prior actual annual emissions, or prior allowable annual emissions, whichever is less and the subsequent maximum annual potential.

The following is the present NOx RACT emissions (9 gm/bhp-hr), the proposed NOx RACT emissions (6 gm/bhp-hr) and the NOx emissions reduction for the minor modifications to the permit renewal.

NOx Emissions in tons per year

Equipment	9 gm/bhp-hr	6 gm/bhp-hr	Reduction
Main Generator	181.39	87.23	94.16
Cummins #1	17.93	11.63	6.30
Cummins #2	14.94	11.63	3.31
Total	214.26	110.49	103.77

The two Plastics Recycling Addition: NOx Emissions in tons/year

Equipment 4 gm/bhp-hr

Two Plastics Recycling 1,000 each
51.02

Overall Impact on NOx Emissions in tons per year:

Reductions from Impact of RACT - 103.77

Increase for two Plastics Recycling 51.02

Net Change -
52.74



Modified (proposed) Hours of Operation for Main and Cummins #1 & #2 Generators at 9 gm/bhp-hr and at 6 gm/bhp-hr:

gm/bhp-hr	9 gm/bhp-hr	6
Main Generator at 2,200 hrs/yr @t 2,200 from 3,050 hrs/yr	2.93	1.67
Combined Cummins # 1 & # 2 at @t 8,760 from 8,250 hrs/yr	2.03	1.35
Net Change	- 0.90	
- 0.32		

Proposed (Modified) Total maximum NOx emissions from the four generators = Main + Combined Cummins #1 & #2 + Combined Plastic Recycling #1 & #2 =

$$87.23 + 23.27 + 51.02 = 161.52 \text{ tpy of NOx emissions}$$

Present (Current) Total maximum NOx emissions from the three generators = Main + Cummins #1 + Cummins #2 =

$$181.39 + 17.93 + 14.94 = 214.26 \text{ tpy of NOx}$$

$$\text{Net NOx emission decrease} = 161.52 - 214.26 = - 52.74 \text{ tpy of NOx}$$

This is a decrease (not an increase) of almost 52.74 tons/yr of NOx emissions and there would be no net emissions increase and the modification qualifies as a "minor modification". Therefore, the proposed modification at SimsMetal East LLC-Queens Plant (formerly known as Hugo Neu East-Queens Yard and as Sims Hugo Neu East-Queens Yard) meets the criteria for use of a minor permit modification as defined in 6 NYCRR 201-6.7(c) and its procedure in accordance with 6 NYCRR 201-6.7(c)(3). In addition, New Source Review, 6 NYCRR 231-2 is not applicable to this facility as a result of this minor modification.

Condition 26: Facility Permissible Emissions
 Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 26.1:

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

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



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

CAS No: 0NY210-00-0 (From Mod 2) PTE: 148,573 pounds per year

Name: OXIDES OF NITROGEN

Condition 27: Capping Monitoring Condition Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 201-7.2

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: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D
Emission Unit: 2-00002 Emission Point: 0005E



Process: 002

Emission Source: 0005E

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: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant is proposing to add two new generator sets for the Plastics Recycling operations at the facility. The two new Generators Sets proposed are a 1,000 KW Peak Load Cummins Diesel Generator (Model 750DQFAA) each that meets EPA Tier II (40 CFR 89) emission requirements as recently proposed in the New Source Performance Standards published by USEPA. The hours of operation for new generator set (Emission Source 0005D in Emission unit 2-00002) will be to maintain Restricted Potential to Emit (RPTE) NOx emissions below USEPA and NYSDEC significance levels for major source permitting and New Source Review (25 tpy). The clean burning technology provided by this equipment will enable up to 8,760 hours of operation/year while limiting NOx RPTE to approximately 51.02 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit.

The two new 1,000 KW Plastics Recycling Generators each (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 will be operating up to a combined 8,760 hours per year. The diesel fuel use per hour is 47.90 gallons per hour, the Maximum Rated Output from the Plastics Recycling Generator is 1,322 bhp, and it is expected to emit 4.0 gm/bhp-hr of NOx emissions.

Annual Fuel Consumption of #2 fuel oil for the Plastics Recycling Generator:

8,760 hours x 47.9 gallons/hour = 419,604 gallons/year

The Maximum Rated Output from the two Plastics Recycling Generator (Emission Sources 0005D & 0005E in Emission Unit 2-00002) is 1,322 bhp, therefore the NOx emissions are calculated as:

EMISSIONS PER HOUR (Based on Stack Test Data) x TOTAL HOURS OPERATED (Based on Operations Log)

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2000 lbs} = 51.02 \text{ tpy of NOx emissions}$

On a daily basis, Sims Hugo Neu will keep records of:

1. The number 2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: Cummins PLASTICS RECYCLING GENERATORS #1 & #2- 1,000 KW each

Upper Permit Limit: 419,604 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 28: Capping Monitoring Condition
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 201-7.2

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 227-2

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:

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.

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



The Maximum rated Output from the Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the NOx emissions from the combined Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) are calculated as:

EMISSIONS PER HOUR (Based on Stack Test Data) x TOTAL HOURS OPERATED (Based on Operations Log)

$402 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 6.0 \text{ gm/bhp-hr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 23.27 \text{ tons/yr of NOx emissions}$

Annual Fuel Consumption of #2 fuel oil from the Combined Cummins #1 & Cummins #2 (Emission Sources 0005B & 0005C; respectively in Emission Unit 2-00002) :

$8,760 \text{ hours/year} \times 11.4 \text{ gallons/hour} = 99,864 \text{ gallons/year}$

On a daily basis, SimMetal East LLC-Queens Plant will keep records of:

1. The number 2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

Work Practice Type: HOURS PER YEAR OPERATION

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 & #2 - 300 KW DIESEL each

Upper Permit Limit: 8760 hours

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 29: Capping Monitoring Condition

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 201-7.2

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

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



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, 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 29.4:

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 29.5:

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 29.6:

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

Emission Unit: 2-00002	Emission Point: 0005D
Process: 002	Emission Source: 0005D
Emission Unit: 2-00002	Emission Point: 0005E
Process: 002	Emission Source: 0005E
Regulated Contaminant(s):	
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 29.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant is proposing to add two new generators set for the Plastics Recycling operations at the facility. The two new Generator Sets proposed are a



1,000 KW Peak Load Cummins Diesel Generator (Model 750DQFAA) each that meets EPA Tier II (40 CFR 89) emission requirements as recently proposed in the New Source Performance Standards published by USEPA. The hours of operation for new generator set (Emission Source 0005D in Emission unit 2-00002) will be to maintain Restricted Potential to Emit (RPTE) NOx emissions below USEPA and NYSDEC significance levels for major source permitting and New Source Review (25 tpy). The clean burning technology provided by this equipment will enable up to 8,760 hours of operation/year while limiting NOx RPTE to approximately 51.02 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit.

The two new 1,000 KW Plastics Recycling Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined. The diesel fuel use per hour is 47.90 gallons per hour, the Maximum Rated Output from the Plastics Recycle Generator is 1,322 bhp, and it is expected to emit 4.0 gm/bhp-hr of NOx emissions.

Annual Fuel Consumption of # 2 fuel oil:

$$8,760 \text{ hours} \times 47.9 \text{ gallons/hour} = 419,604 \text{ gallons/year}$$

The Maximum Rated Output from the Plastics Recycling Generator (Emission Source 0005D in Emission Unit 2-00002) is 1,322 bhp, therefore the NOx emissions are calculated as:

EMISSIONS PER HOUR (Based on Stack Test Data) x TOTAL HOURS OPERATED (Based on Operations Log)

$$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 51.02 \text{ tpy of NOx emissions}$$

On a daily basis, Sims Hugo Neu will keep records of:

1. The number 2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

Work Practice Type: HOURS PER YEAR OPERATION

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Manufacturer Name/Model Number: PLASTICS RECYCLING GENERATORS #1 & #2 -
1,000 KW each

Upper Permit Limit: 8,760 hours

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 30: Capping Monitoring Condition
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 201-7.2

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 227-2

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, 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: 2-00002



Process: 002 Emission Source: 0005B

Emission Unit: 2-00002
Process: 002 Emission Source: 0005C

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:

SimsMetal East LLC-Queens Plant (formerly known as Hugo Neu East-Queens Yard and also as Sims Hugo Neu East-Queens Yard) is proposing to combine the two identical Cummins Generators (Emission Sources 0005B & 0005C in Emission Unit 2-00002) used for off-shift electrical load support into a group with a combined allowable 8,760 hours of operation allocated. The Cummins #1 engine (Emission Source 0005B in Emission Unit 2-00002) is currently permitted to operate 4,500 hours/year and the Cummins #2 engine (Emission Unit 0005C in Emission Unit 2-00002) is currently permitted to operate 3,750 hours/year, a combined 8,250 hours/year. Sims Hugo Neu proposes to reduce the allowable hours of operation for the Main Generator from 3,050 to 2,575 hours. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hour/year reduction is approximately 50.55 tons/year, more than enough to offset the 510 hours combined allowable increase in hours for the two Cummins generators, approximately 2.03 tons/year. A corresponding net reduction of 1.35 tons/year at 6.0 gm/bhp-hr for this equipment is attainable.

The Maximum rated Output from the Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the NOx emissions from the combined Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) are calculated as:

EMISSIONS PER HOUR (Based on Stack Test Data) x TOTAL HOURS OPERATED (Based on Operations Log)

402 bhp x 8,760 hrs/yr x 6.0 gm/bhp-hr x 1 lb/454 gm x 1 ton/2,000 lbs = 23.27 tons/yr of NOx emissions

Amount Fuel Consumption of #2 fuel oil for the combined

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002):

8,760 hours x 11.4 gallons/hour = 99,864 gallons/year

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 & #2 - 300 KW DIESEL each

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 23.27 tons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 31: Capping Monitoring Condition
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 201-7.2

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 227-2

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.

Item 31.4:

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 31.5:

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



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 31.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 2-00002

Process: 002

Emission Source: 0005B

Emission Unit: 2-00002

Process: 002

Emission Source: 0005C

Regulated Contaminant(s):

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

Item 31.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant (formerly known as Hugo Neu East-Queens Yard and also as Sims Hugo Neu East-Queens Yard) is proposing to combine the two identical Cummins Generators (Emission Sources 0005B & 0005C in Emission Unit 2-00002) used for off-shift electrical load support into a group with a combined allowable 8,760 hours of operation allocated. The Cummins #1 engine (Emission Source 0005B in Emission Unit 2-00002) is currently permitted to operate 4,500 hours/year and the Cummins #2 engine (Emission Unit 0005C in Emission Unit 2-00002) is currently permitted to operate 3,750 hours/year, a combined 8,250 hours/year. Sims Hugo Neu proposes to reduce the allowable hours of operation for the Main Generator from 3,050 to 2,200 hours. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hour/year reduction is approximately 50.55 tons/year, more than enough to offset the 510 hours combined allowable increase in hours for the two Cummins generators, approximately 2.03 tons/year. A corresponding net reduction of 1.35 tons/year at 6.0 gm/bhp-hr for this equipment is attainable.

For any stationary internal combustion engine, NOx emissions must be measured in accordance with emission test requirements as described in 6 NYCRR 227-2.6(c). The Maximum rated Output from the Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the NOx

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



emissions from the combined Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) are calculated as:

EMISSIONS PER HOUR (Based on Stack Test Data) x TOTAL HOURS OPERATED (Based on Operations Log)

402 bhp x 8,760 hrs/yr x 6.0 gm/bhp-hr x 1 lb/454 gm x 1 ton/2,000 lbs = 23.27 tons/yr of NOx emissions

Amount Fuel Consumption of #2 fuel oil for the combined Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002):

8,760 hours x 11.4 gallons/hour = 99,864 gallons/year

On a daily basis, SimMetal East LLC-Queens Plant will keep records of:

1. The number 2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 & #2 - 300 KW DIESEL each

Upper Permit Limit: 99864 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 32: Capping Monitoring Condition
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 32.1:

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:

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



6 NYCRR Subpart 231-2

Item 32.2:

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

Item 32.3:

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 32.4:

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 32.5:

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 32.6:

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

Emission Unit: 2-00002	Emission Point: 0005D
Process: 002	Emission Source: 0005D
Emission Unit: 2-00002	Emission Point: 0005E
Process: 002	Emission Source: 0005E
Regulated Contaminant(s):	
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 32.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant is proposing to add two new generators set for the Plastics Recycling operations at the facility. The new Generator Sets proposed are a 1,000 KW Peak Load Cummins Diesel Generator (Model 750DQFAA) each that meets EPA Tier II (40 CFR 89) emission requirements as recently proposed in the New Source



Performance Standards published by USEPA. The hours of operation for new generator sets (Emission Sources 0005D & 0005E in Emission unit 2-00002) will be to maintain Restricted Potential to Emit (RPTE) NO_x emissions below USEPA and NYSDEC significance levels for major source permitting and New Source Review (25 tpy). The clean burning technology provided by this equipment will enable up to 8,760 hours of operation/year while limiting NO_x RPTE to approximately 51.02 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit.

The two new 1,000 KW Plastics Recycling Generator each (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined. The diesel fuel use per hour is 47.90 gallons per hour, the Maximum Rated Output from the Plastics Recycling Generator is 1,322 bhp, and it is expected to emit 4.0 gm/bhp-hr of NO_x emissions.

Annual Fuel Consumption of #2 fuel oil:

$$8,760 \text{ hours} \times 47.9 \text{ gallons/hour} = 419,604 \text{ gallons/year}$$

The Maximum Rated Output from the Plastics Recycling Generator (Emission Source 0005D in Emission Unit 2-00002) is 1,322 bhp, therefore, the NO_x emissions are calculated as:

EMISSIONS PER HOUR (Based on Stack Test Data) x TOTAL HOURS OPERATED (Based on Operations Log)

$$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 51.02 \text{ tpy of NO}_x \text{ emissions}$$

On a daily basis, Sims Hugo Neu will keep records of:

1. The number 2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: NUMBER 2 OIL
Manufacturer Name/Model Number: PLASTICS RECYCLING GENERATORS #1 & #2 -

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



1,000 KW each
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 51.02 tons per year
Monitoring Frequency: DAILY
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 33: Applicability of Reasonably Available Control Technology
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 212.10 (a) (1)

Item 33.1:

Owners and/or operators of facilities located in the lower Orange County or the New York City metropolitan areas with an annual potential to emit 25 tons or more of nitrogen oxides or 25 tons or more of Volatile Organic Compounds must comply with the requirements of 6NYCRR 212.10- Reasonably Available Control Technology for Major Facilities.

Condition 34: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

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: 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
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 1/30/2009.
Subsequent reports are due every 6 calendar month(s).



Condition 35: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR Subpart 227-2

Item 35.1:

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

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant (formerly known as Hugo Neu East-Queens Yard and also as Sims Hugo Neu East-Queens Yard) is proposing to combine the two identical Cummins Generators (Emission Sources 0005B & 0005C in Emission Unit 2-00002) used for off-shift electrical load support into a group with a combined allowable 8,760 hours of operation allocated. The Cummins #1 engine (Emission Source 0005B in Emission Unit 2-00002) is currently permitted to operate 4,500 hours/year and the Cummins #2 engine (Emission Unit 0005C in Emission Unit 2-00002) is currently permitted to operate 3,750 hours/year, a combined 8,250 hours/year. Sims Hugo Neu proposes to reduce the allowable hours of operation for the Main Generator from 3,050 to 2,200 hours. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hour/year reduction is approximately 50.55 tons/year, more than enough to offset the 510 hours (8,760 hrs - 8,250 hrs) combined allowable increase in hours for the two Cummins generators, approximately 2.03 tons/year. A corresponding net reduction of 1.35 tons/year at 6.0 gm/bhp-hr for this equipment is attainable according to the Potential To Emit Calculations on the offsets.

The facility is requesting to be granted a NOx variance with this Title V renewal operating permit from the NOx emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. The renewal permit also provides

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators (Main, Cummins #1 & Cummins #2) at the facility as was demonstrated in the stack testing that was conducted on January 18-20, 2005. The two new identical Plastics Recycling Generator (Emission Source 0005D) has a manufacturer's specification of 4.0 gm/bhp-hr.

Work Practice Type: HOURS PER YEAR OPERATION

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 & #2 - 300 KW DIESEL each

Upper Permit Limit: 8760 hours

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2009.

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

Condition 36: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR Subpart 227-2

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005D
Emission Source: 0005D

Emission Unit: 2-00002
Process: 002

Emission Point: 0005E
Emission Source: 0005E

Regulated Contaminant(s):

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

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant is proposing to add two new identical generators set for the Plastics Recycling operations at the facility. The new Generators Set proposed is a 1,000 KW Peak Load Cummins Diesel Generator (Model 750DQFAA) each that meets EPA Tier II (40 CFR 89) emission requirements as recently proposed in the New Source Performance Standards published by USEPA. The hours of operation for the two new generator sets (Emission Sources 0005D & 0005E in Emission unit 2-00002)

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



will be to maintain Restricted Potential to Emit (RPTE) NOx emissions below USEPA and NYSDEC significance levels for major source permitting and New Source Review (40 tpy). The clean burning technology provided by this equipment will enable up to 8,760 hours of operation/year combined while limiting NOx RPTE to approximately 50.55 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit.

The facility is requesting to be granted a NOx variance with this Title V renewal operating permit from the NOx emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. The renewal permit also provides for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators (Main, Cummins #1 & Cummins #2) at the facility as was demonstrated in the stack testing that was conducted on January 18-20, 2005. The two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E) has a manufacturer's specification of 4.0 gm/bhp-hr.

Work Practice Type: HOURS PER YEAR OPERATION
Manufacturer Name/Model Number: PLASTICS RECYCLING GENERATORS #1 & #2 - 1,000 KW DIESEL each
Upper Permit Limit: 8,760 hours
Monitoring Frequency: DAILY
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 12 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 227-2.6 (a) (7)

Item 37.1:

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

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

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

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Item 37.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

On a daily basis, SimsMetal East LLC-Queens Plant will keep records of:

1. The #2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

The two new identical 1,000 KW each Plastics Recycling Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined. The diesel fuel use per hour is 47.90 gallons per hour, the Maximum Rated Output from each of the two new Plastics Recycling Generators is 1,322 bhp, and it is expected to emit 4.0 gm/bhp-hr of NOx emissions.

The Maximum Rated Output from the two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) is 1,322 bhp, therefore the NOx emissions are calculated as:

$$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 51.02 \text{ tpy of NOx emissions}$$

Annual Fuel Consumption of #2 fuel oil for the two new identical Plastics Recycling Generators:

$$8,760 \text{ hours} \times 47.9 \text{ gallons/hour} = 419,604 \text{ gallons/year}$$

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: PLASTICS RECYCLING GENERATORS #1 & #2 - 1,000 KW DIESEL each

Upper Permit Limit: 419,604 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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



Condition 38: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (7)

Item 38.1:

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

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 38.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

On a daily basis, SimMetal East LLC-Queens Plant will keep records of:

1. The #2 fuel usage for each generator in gallons per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

Cummins Generator #1 - 300 KW diesel (Emission Source 0005B in Emission Unit 2-00002) at Emission Point 0005B and Cummins Generator #2 - 300 KW diesel (Emission Source 0005C in Emission Unit 2-00002) at Emission Point 0005C are used as backup to the Main Generator. The facility is proposing to combine the hours of operation for the two identical Cummins Generators (Cummins #1 & Cummins #2) to be up to 8,760 hours/year instead of 4,500 hours/year for Cummins #1 and 3,750 hours/year for Cummins #2. The average fuel consumption for Cummins #1 is 11.4 gallons/hour and that for Cummins #2 is also 11.4 gallons/hour. The annual fuel consumption for the combined Cummins #1 & Cummins #2 generators is 99,864 gallons. Cummins #1 & Cummins #2 Generators are used as a backup to the Main Generator (Emission Source 00001 in Emission Unit 2-00002). On January 18-20, 2005, during the latest NOx RACT emission stack test for the Cummins

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Generator #1, the results of the testing indicate that the Cummins #1 Generator demonstrated average NO_x emissions value of 5.52 grams/bhp-hr.

The Maximum rated Output from the Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the NO_x emissions are calculated as:

$402 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 6.0 \text{ gm/bhp-hr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 23.27 \text{ tons/yr of NO}_x \text{ emissions}$

Amount Fuel Consumption of #2 fuel oil for the combined Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002):

$8,760 \text{ hours} \times 11.4 \text{ gallons/hour} = 99,864 \text{ gallons/year}$

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Upper Permit Limit: 99,864 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 39: Duration of emission standards for new stationary compression ignition IC engines
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4206, NSPS Subpart III

Item 39.1:

Owners and operators of a stationary compression ignition internal combustion engine (CI ICE) must operate and maintain the stationary CI ICE that achieves the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

Condition 40: Stationary CI-IC Engines - Installation and importing deadlines for engines produced in the previous model year
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4208, NSPS Subpart III

Item 40.1:

Owners or operators are subject to the following deadlines for importing or installing stationary compression ignition internal combustion (CI-IC) engines produced in the previous model year: (a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.



(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.

(c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.

(d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.

(e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.

(f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.

(g) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import a stationary CI IC engine with a displacement of less than 30 liters per cylinder that does not meet the applicable requirements specified in paragraphs (a) through (f) above after the dates specified in those paragraphs.

(h) The deadlines listed above do not apply to owners or operators of a stationary CI IC engine that has been modified, reconstructed, and does not apply to engines that were removed from one existing location and reinstalled at a new location.

**** Emission Unit Level ****

**Condition 41: Emission Point Definition By Emission Unit
Effective between the dates of 09/26/2008 and 09/25/2013**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 41.1(From Mod 2):

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

Emission Unit: 2-00002

Emission Point: 00001

Height (ft.): 55

Diameter (in.): 28

NYTMN (km.): 4509.8

NYTME (km.): 589.6

Building: GENERATOR

Emission Point: 0005B

Height (ft.): 45

Diameter (in.): 8

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005C
 Height (ft.): 41 Diameter (in.): 8
 NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005D
 Height (ft.): 8 Length (in.): 9 Width (in.): 8
 NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005E
 Height (ft.): 8 Length (in.): 9 Width (in.): 8
 NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

**Condition 42: Process Definition By Emission Unit
Effective between the dates of 09/26/2008 and 09/25/2013**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 42.1(From Mod 2):

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

Emission Unit: 2-00002
 Process: 002 Source Classification Code: 2-03-001-01
 Process Description:

Process 002 consists of the firing of # 2 diesel fuel in four (4) engine generators, the two identical 300 KW each diesel Cummins Generators (Cummins # 1 & Cummins # 2), identified as Emission Sources 0005B & 0005C; respectively, and the two new identical 1000 KW each (1,322 bhp maximum rated output each) Cummins Plastics Recycle Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002. The flue gas from each engine generator exhaust through its own stack, identified as Emission Points 0005B, 0005C, 0005D and 0005E; respectively. The Cummins # 1 & Cummins # 2 engine generator operates at separate times, depending on the requirement for on-site electricity. The two identical Cummins Plastics Recycle generators (Emission Sources 0005D & 0005E) operate up to 8,760 hours of combined operation/year while limiting the NOx emissions to a maximum of 51.02 tons/year.

The facility's total fuel consumption of # 2 fuel oil for the four generators is limited to 519,468 gallons/year. The two Cummins Generators # 1 - maximum rated output at 402 bhp (300 KW diesel) at Emission Point 0005B, and the Cummins Generator # 2 - maximum rated output at 402 bhp (300 KW diesel) at Emission Point 0005C are together limited to a combined hours of operation of up to 8,760 hours/year and their average fuel consumption is 11.4 gallons/hour and their annual fuel consumption is limited

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



to 99,864 gallons. The two identical Cummins Plastics Recycle Generators (Emission Sources 0005D & 0005E) maximum rated output at 1,322 bhp (750 KW) diesel at Emission Point 0005D are to operate up to combined 8,760 hours per year, their average fuel consumption is 47.9 gallons per hour and their annual fuel consumption is limited to 419,604 gallons.

Cummins # 1 & # 2 Generators: 8,760 hrs x 11.4 gal/hr = 99,864 gal/yr

Cummins Plastics Generator # 1 & # 2 = 8,760 hrs x 47.9 gal/hr = 419,604 gal/yr

The total annual fuel consumption of # 2 oil = 99,864 + 419,604 = 519,468 gal/yr

The Maximum rated Output from each of Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the combined NOx emissions are calculated as:

$402 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 6.0 \text{ gm/bhp-hr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2,000 lbs} = 23.27 \text{ tons/yr of NOx emissions}$

The Maximum Rated Output from the two combined Plastics Recycling Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) is 1,322 bhp, therefore the combined NOx emissions are calculated as:

$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2000 lbs} = 51.02 \text{ tpy of NOx emissions}$

Emission Source/Control: 00001 - Combustion Removal Date: 10/01/2006
Design Capacity: 9,630 horsepower (electric)

Emission Source/Control: 0005B - Combustion
Design Capacity: 300 kilowatts

Emission Source/Control: 0005C - Combustion
Design Capacity: 300 kilowatts

Emission Source/Control: 0005D - Combustion
Design Capacity: 1,000 kilowatts

Emission Source/Control: 0005E - Combustion
Design Capacity: 1,000 kilowatts

Condition 2-1: 33.44 tons of NOx Emission Reduction Credits have been created.

Effective between the dates of 06/15/2010 and 09/25/2013



Applicable Federal Requirement:6 NYCRR Subpart 231-10

Item 2-1.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 00001
Process: 002 Emission Source: 00001

Item 2-1.2: The "Main Generator" (a 6000 bhp generator- identified as Emission Source 00001 in Emission Unit 2-0002) has been permanently shut down on 10/1/2006), and in accordance with Part 231-10 by permanently shutting this source down, 33.44 tons of NOx "Emission Reduction Credits" have been created.

The facility's current Title V permit limited the operation of the Main Generator (Emission Source 00001) to 2,200 hours; RACT for this emission source is 2.3 gm/bhp-hr; and the Main Generator was 6000 bhp. Even though the facility had a RACT variance; for the purposes of calculating ERC's the most stringent applicable/stipulated limits is applied which is 2.3 gm/bhp-hr. Therefore, for the Main Generator, the Emission Reduction Credits are as follow:

$6000 \text{ bhp} \times 2.3 \text{ gm/bhp-hr} \times 2200 \text{ hrs/yr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2000 lbs} = 33.44$
tons of NOx

Condition 55: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

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

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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 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.

Manufacturer Name/Model Number: CUMMINS GENERATOR # 1 - 300 KW DIESEL (BACKUP)
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 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 56: Compliance Certification
Effective between the dates of 09/26/2008 and



09/25/2013

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

(2)

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition is for the three engine-generators (Emission Sources 00001, 0005B & 0005C) in Emission Unit 2-00002, which are rich burn internal combustion engines with compression ignition source : The owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe ozone nonattainment area, that provides primary power or is used for peak shaving generation, must comply with the 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this emission limit must be determined with a one 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.

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 oil analysis, and fuel consumption versus power output of the unit.

To comply with the NOx emission limit of 6.0 gram/bhphr for internal combustion engines stated in 6NYCRR 227-2.4(f)(2), the facility will maintain daily records which shall include:

1. Hours of operation per day by each engine-generator
2. Gallons of #2 diesel fuel burned by each engine-generator

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 - 300 KW DIESEL DIESEL (BACKUP)

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 1/30/2009.

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

Condition 57: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 57.2:



Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This is a NO_x variance for the new effective NO_x emission limits requested by SimsMetal East LLC-Queens Plant and is part of this permit renewal. This condition for 6 NYCRR 227-2.4(f)(2)(ii) applies to the three engine-generators (Emission Sources 00001, 0005B & 0005C) in Emission Unit 2-00002:

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 fuel other than natural gas: 2.3 grams per brake horsepower-hour.

Compliance with this emission limit shall be determined with one hour average in accordance with section 227-2.6 (a) (7) of this subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6 (a) (2) of this subpart.

On December 9, 2005, SimsMetal East LLC-Queens Plant submitted a NO_x RACT Compliance and Operating Plan to NYSDEC Region II Office. The plan contained a proposed variance to meeting the emission limit. The facility proposed using low sulfur fuel (i.e. < 500 ppm) and period tuning of the engines for NO_x to levels commensurate with the results of testing to be conducted in December 2004.

On January 17, 2005, SimsMetal East LLC-Queens Plant submitted a NO_x RACT Compliance and Operating Plan to NYSDEC Region II Office. The analysis concluded that no NO_x control technologies were economically feasible for any of the three 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.

As per 6 NYCRR 227-2.6 NO_x RACT, the facility has



0005C) conducted stack testing in January 2005 on the three engine-generators (Emission Sources 00001, 0005B & in Emission Unit 2-00002:

latest On January 18-20, 2005, Sims Hugo Neu performed the

NOx RACT emission stack test for the Main Generator (Emission Source 00001 in Emission Unit 2-00002) and the Cummins #1 Generator (Emission Source 0005B) in order to comply with the conditions of Subpart 227-2.4 & 2.6: applicable NOx RACT emission limits and source testing to demonstrate compliance, respectively. The results of the testing indicate that equipment continued to meet the NOx RACT requirements effective at the time (9.0 grams/BHP-hr).

The Main Generator demonstrated average NOx emissions value of 5.10 grams/bhp-hr. The Cummins #1 demonstrated average NOx emissions value of 5.52 grams/BHP-hr. These values represent a significant reduction in NOx emissions from the from the implementation of the elements of the NOx RACT Operating and Compliance Plan. 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).

On April 5, 2005, Sims Hugo Neu submitted an update on implementation of the NOx RACT Compliance and Operating Plan to NYSDEC Region II Office. The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuel control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by NYSDEC as the upper threshold of what is economically achievable.

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 6.0 grams per brake horsepower-hour for all of the three generators at the facility (Emission Sources 00001, 0005B & 0005C) in Emission Unit 2-00002 as demonstrated in testing conducted in 2005. In addition, the NOx emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastics Recycling Generators (Emission Source 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

Manufacturer Name/Model Number: CEMS for CUMMINS
GENERATOR #2 - 300 KW DIESEL
Upper Permit Limit: 6.0 grams per brake horsepower-hour
Reference Test Method: 40 CFR 60 APP A
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING
OCCURRENCE

Condition 58: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

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

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 58.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For those sources for which the owner or operator demonstrates that the applicable presumptive RACT emission



limit of 2.3 grams per brake horsepower-hour in section 227-2.4 of this Subpart is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic 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 April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on implementation of the NOx RACT Compliance and Operating Plan to NYSDEC Region II Office.

The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuel control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by

NYSDEC

as the upper threshold of what is economically achievable.

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 6.0 grams per brake horsepower-hour for all of the three generators (Emission Sources 00001, 0005B & 0005C) at the facility as demonstrated in testing conducted in 2005. In addition, the NOx emission limit of 4.0 grams per brake horsepower-hour should be granted for the new Plastics Recycling Generator (Emission Source 0005D) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

With a variance to be granted from full compliance with NOx RACT requirements described elsewhere in this permit renewal, existing measures described in the NOx RACT Compliance and Operating Plan for the site have reduced overall NOx emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. The NOx



RACT Compliance and Operating Plan Implementation allows

emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction more than offsets the proposed increase of the 510 in the hours of operation associated with the two Cummins generators and the 8,760 hours of operation for new identical Plastics Recycling Generators.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 - 300 KW DIESEL DIESEL (BACKUP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour

Monitoring Frequency: HOURLY

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 59: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

Applicable Federal Requirement:6 NYCRR 227-2.6

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 59.2:

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

As per 6 NYCRR 227-2.6 NO_x RACT, the facility has conducted stack testing in January 2005 on the emission sources in Emission Unit 2-00002:

On January 18-20, 2005, SimsMetal East LLC-Queens Plant performed the latest NO_x RACT emission stack test for the Main Generator (Emission Source 00001 in Emission Unit 2-00002) and the Cummins #1 Generator (Emission Source 0005B) in order to comply with the conditions of Subpart 227-2.4 & 2.6: applicable NO_x RACT emission limits and source testing to demonstrate compliance, respectively. The results of the testing indicate that equipment continued to meet the NO_x RACT requirements effective at the time (9.0 grams/BHP-hr).

The results of the testing indicate that the Main Generator demonstrated average NO_x emissions value of

5.10

grams/bhp-hr. The Cummins #1 demonstrated average NO_x emissions value of 5.52 grams/BHP-hr. Since both Cummins Engines, one at Emission Point 0005B and the other at Emission Point 0005C (Emission Sources 0005B & 0005C) installed at the facility are identical, therefore; emission profiles of both Cummins engines are expected to be the same and the Department will use its engineering judgement to exempt the facility from performing a stack test on the second Cummins generator #2 (Emission Source 0005C) at Emission Point 0005C. These values represent a significant reduction in NO_x emissions from the implementation of the elements of the NO_x RACT Operating and Compliance Plan. 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).

SimsMetal East LLC-Queens Plant proposes to reduce the allowable hours of operation for the Main Generator from 3,050 to 2,200 hours. The net reduction in NO_x emissions (at 9.0 gm/bhp-hr) from the 850 hours/yr reduction is approximately 50.55 tons/year, to offset the 510 hours



(8,760 - 8,250 hrs) combined allowable increase in hours for the two Cummins generators (2.03 tons/yr) and to offset the 8,760 hours of operation of the two new identical Plastics Recycling Generators (51.02 tons/yr). A corresponding net reduction of 52.74 tons/year at 6.0 gm/bhp-hr for these equipments is attainable according to the Potential To Emit calculations on the offsets.

The facility is requesting to be granted a NOx variance with this Title V renewal operating permit from the NOx emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. The renewal permit also provides for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators (Main, Cummins #1 & Cummins #2) at the facility as was demonstrated in the stack testing that was conducted on January 18-20, 2005. The two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E)

have

a manufacturer's specification of 4.0 gm/bhp-hr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 - 300 KW DIESEL DIESEL (BACKUP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour

Monitoring Frequency: HOURLY

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 60: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a)
(2)



Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 60.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The owner/operator of internal combustion engines may opt to employ a continuous emissions monitoring system (CEMS),

or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in subdivision (c) of this section. Those internal combustion engines which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of subdivision (b) of this section to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

Manufacturer Name/Model Number: CEMS for CUMMINS
GENERATOR #1 - 300 KW DIESEL (BACKUP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour

Reference Test Method: CEMS

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC
MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 61: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013



Applicable Federal Requirement:6 NYCRR 227-2.6 (c)

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition is for the 300 KW Cummins #1 generator
(Emission Source 0005B at Emission Point 0005B in

Emission

Unit 2-00002). The owner/operator of internal combustion engines shall perform initial compliance stack tests as described in subdivision (c) of this section to verify NO_x emissions to demonstrate compliance with Subpart 2.6(a).

Stack Test Requirements: The owner/operator of those facilities required to stack test under subdivision (a) of this section shall:

1. submit compliance test protocol to the department for approval at least 90 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. utilize procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title. For internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.



3. submit a compliance test report containing the results of the emission test to the Department no later than 60 days after completion of the emission test.

Since the two Cummins generators are identical, then the Department will use its engineering judgement to exempt Sims Metal East LLC-Queens Plant from performing a stack test on the second Cummins Generator #2 (SN 23196803) at Emission Point 0005B.

As per 6 NYCRR 227-2.6 NOx RACT requirements, the facility has conducted stack testing in January 2005 on the three generators in Emission Unit 2-00002 (Main, Cummins #1 & Cummins #2 - Emission Sources 00001, 0005B & 0005C; respectively). Existing measures described in the NOx RACT Compliance and Operating Plan for the site have reduced overall NOx emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. The NOx RACT Compliance and Operating Plan Implementation allows

emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction offsets the proposed increase associated with the 510 additional hours of operation of the two Cummins generators and the 8,760 hours of operation of the two new identical Plastics Recycling Generators.

On April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on implementation of the NOx RACT Compliance and Operating Plan to NYSDEC Region II Office.

The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuels control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by NYSDEC as the upper threshold of what is economically achievable.



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 for the reasons provided. It also provides for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators at the facility as demonstrated in testing conducted in 2005.

Manufacturer Name/Model Number: CUMMINS GENERATOR #2 - 300 KW DIESEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour

Reference Test Method: METHOD 7, 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 62: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 227.2 (b)

(1)

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005B
Process: 002 Emission Source: 0005B

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

Item 62.2:

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.

At the monitoring frequency stated below 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.

Manufacturer Name/Model Number: CUMMINS GENERATOR # 1 - 300 KW DIESEL (BACKUP)

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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 63: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 63.1:

The Compliance Certification activity will be performed for:



Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

Item 63.2:

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.

Manufacturer Name/Model Number: CUMMINS GENERATOR # 2 - 300 KW DIESEL (BACKUP)

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 1/30/2009.

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

Condition 64: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition is for the three engine-generators (Emission Sources 00001, 0005B & 0005C) in Emission Unit 2-00002, which are rich burn internal combustion engines with compression ignition source : The owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe ozone nonattainment area, that provides primary power or is used for peak shaving generation, must comply with the 2.3 grams per



brake horsepower-hour beginning April 1, 2005.

Compliance with this emission limit must be determined with a one 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.

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 oil analysis, and fuel consumption versus power output of the unit.

To comply with the NO_x emission limit of 6.0 gram/bhphr for internal combustion engines stated in 6NYCRR 227-2.4(f)(2), the facility will maintain daily records which shall include:

1. Hours of operation per day by each engine-generator
2. Gallons of #2 diesel fuel burned by each engine-generator

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 - 300 KW DIESEL DIESEL (BACKUP)

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 1/30/2009.

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

Condition 65: Compliance Certification
Effective between the dates of 09/26/2008 and



09/25/2013

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

(2) (ii)

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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:

This is a NO_x variance for the new effective NO_x emission limits requested by SimsMetal East LLC-Queens Plant and is part of this permit renewal. This condition for 6 NYCRR 227-2.4(f)(2)(ii) applies to the three engine-generators (Emission Sources 00001, 0005B & 0005C) in Emission Unit 2-00002:

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.

Compliance with this emission limit shall be determined with one hour average in accordance with section 227-2.6 (a) (7) of this subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6 (a) (2) of this subpart.

On December 9, 2005, SimsMetal East LLC-Queens Plant submitted a NO_x RACT Compliance and Operating Plan to NYSDEC Region II Office. The plan contained a proposed



variance to meeting the emission limit. The facility proposed using low sulfur fuel (i.e. < 500 ppm) and period tuning of the engines for NOx to levels commensurate with the results of testing to be conducted in December 2004.

On January 17, 2005, SimsMetal East LLC-Queens Plant submitted a NOx RACT Compliance and Operating Plan to NYSDEC Region II Office. The analysis concluded that no NOx control technologies were economically feasible for any of the three generators at the facility. This report was submitted to comply with a variance request to the NOx emission limit stated above pursuant to Part 621, Uniform Procedures act.

As per 6 NYCRR 227-2.6 NOx RACT, the facility has conducted stack testing in January 2005 on the three engine-generators (Emission Sources 00001, 0005B &

0005C)

in Emission Unit 2-00002:

On January 18-20, 2005, Sims Hugo Neu performed the

latest

NOx RACT emission stack test for the Main Generator (Emission Source 00001 in Emission Unit 2-00002) and the Cummins #1 Generator (Emission Source 0005B) in order to comply with the conditions of Subpart 227-2.4 & 2.6: applicable NOx RACT emission limits and source testing to demonstrate compliance, respectively. The results of the testing indicate that equipment continued to meet the NOx RACT requirements effective at the time (9.0 grams/BHP-hr).

The Main Generator demonstrated average NOx emissions value of 5.10 grams/bhp-hr. The Cummins #1 demonstrated average NOx emissions value of 5.52 grams/BHP-hr. These values represent a significant reduction in NOx emissions from the from the implementation of the elements of the NOx RACT Operating and Compliance Plan. 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).



On April 5, 2005, Sims Hugo Neu submitted an update on implementation of the NOx RACT Compliance and Operating Plan to NYSDEC Region II Office. The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuel control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by NYSDEC as the upper threshold of what is economically achievable.

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 6.0 grams per brake horsepower-hour for all of the three generators at the facility (Emission Sources 00001, 0005B & 0005C) in Emission Unit 2-00002 as demonstrated in testing conducted in 2005. In addition, the NOx emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new Plastics Recycling Generators (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

Manufacturer Name/Model Number: CEMS for CUMMINS
GENERATOR #2 - 300 KW DIESEL
Upper Permit Limit: 6.0 grams per brake horsepower-hour
Reference Test Method: 40 CFR 60 APP A
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING
OCCURRENCE

Condition 66: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

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

Item 66.1:
The Compliance Certification activity will be performed for:



Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 66.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For those sources for which the owner or operator demonstrates that the applicable presumptive RACT emission limit of 2.3 grams per brake horsepower-hour in section 227-2.4 of this Subpart is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic 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 April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on implementation of the NO_x RACT Compliance and Operating Plan to NYSDEC Region II Office.

The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuel control of NO_x emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by

NYSDEC

as the upper threshold of what is economically achievable.

Application for renewal of this Title V Operating permit includes a request for granting a variance from the above mentioned NO_x emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. It also provides for establishing a NO_x emission limit of 6.0



grams per brake horsepower-hour for all of the three generators Emission Sources 00001, 0005B & 0005C) at the facility as demonstrated in testing conducted in 2005. In addition, the NOx emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

With a variance to be granted from full compliance with NOx RACT requirements described elsewhere in this permit renewal, existing measures described in the NOx RACT Compliance and Operating Plan for the site have reduced overall NOx emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. The NOx RACT Compliance and Operating Plan Implementation allows

emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction more than offsets the proposed increase associated with the two new identical Plastics Recycling Generators.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: NUMBER 2 OIL
Manufacturer Name/Model Number: CUMMINS GENERATOR #2 - 300 KW DIESEL DIESEL (BACKUP)
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 6.0 grams per brake horsepower-hour
Monitoring Frequency: HOURLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 67: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 227-2.6



Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 67.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

As per 6 NYCRR 227-2.6 NOx RACT, the facility has conducted stack testing in January 2005 on the emission sources in Emission Unit 2-00002:

On January 18-20, 2005, SimsMetal East LLC-Queens Plant performed the latest NOx RACT emission stack test for the Main Generator (Emission Source 00001 in Emission Unit 2-00002) and the Cummins #1 Generator (Emission Source 0005B) in order to comply with the conditions of Subpart 227-2.4 & 2.6: applicable NOx RACT emission limits and source testing to demonstrate compliance, respectively. The results of the testing indicate that equipment continued to meet the NOx RACT requirements effective at the time (9.0 grams/BHP-hr).

The results of the testing indicate that the Main Generator demonstrated average NOx emissions value of

5.10

grams/bhp-hr. The Cummins #1 demonstrated average NOx emissions value of 5.52 grams/BHP-hr. Since both Cummins Engines, one at Emission Point 0005B and the other at Emission Point 0005C (Emission Sources 0005B & 0005C) installed at the facility are identical, therefore; emission profiles of both Cummins engines are expected to be the same and the Department will use its engineering judgement to exempt the facility from performing a stack test on the second Cummins generator #2 (Emission Source 0005C) at Emission Point 0005C. These values represent a



significant reduction in NOx emissions from the implementation of the elements of the NOx RACT Operating and Compliance Plan. 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).

SimsMetal East LLC-Queens Plant proposes to reduce the allowable hours of operation for the Main Generator from 3,050 to 2,200 hours. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hours/yr reduction is approximately 50.55 tons/year, to offset the 510 hours (8,760 - 8,250 hrs) combined allowable increase in hours for the two Cummins generators (2.03 tons/yr) and to offset the 8,760 hours of operation of the two new identical Plastics Recycling Generators (51.02 tons/yr). A corresponding net reduction of 52.74 tons/year at 6.0 gm/bhp-hr for these equipments is attainable according to the Potential To Emit calculations on the offsets.

The facility is requesting to be granted a NOx variance with this Title V renewal operating permit from the NOx emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. The renewal permit also provides for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators (Main, Cummins #1 & Cummins #2) at the facility as was demonstrated in the stack testing that was conducted on January 18-20, 2005. The two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E)

have

a manufacturer's specification of 4.0 gm/bhp-hr.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS GENERATOR #1 - 300 KW DIESEL DIESEL (BACKUP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour

Monitoring Frequency: HOURLY

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



Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 68: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a)
(2)

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 68.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The owner/operator of internal combustion engines may opt
to employ a continuous emissions monitoring system
(CEMS),

or equivalent, in lieu of the monitoring requirements to
perform initial compliance stack tests as described in
subdivision (c) of this section. Those internal
combustion engines which opt to monitor emissions with a
CEMS or equivalent shall follow the requirements of
subdivision (b) of this section to demonstrate compliance,
including a 24 hour daily arithmetic average NOx emission
rate.

Manufacturer Name/Model Number: CEMS for CUMMINS
GENERATOR #2 - 300 KW DIESEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour



Reference Test Method: CEMS
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 69: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 227-2.6 (c)

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005C
Process: 002 Emission Source: 0005C

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

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition is for the 300 KW Cummins #2 generator (Emission Source 0005C). The owner/operator of internal combustion engines shall perform initial compliance stack tests as described in subdivision (c) of this section to verify NOx emissions to demonstrate compliance with Subpart 2.6(a).

Stack Test Requirements: The owner/operator of those facilities required to stack test under subdivision (a) of this section shall:

1. submit compliance test protocol to the department for approval at least 90 days prior to emission testing. The conditions of the testing and the locations of the



sampling devices must be acceptable to the department;
and

2. utilize procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title. For internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.

3. submit a compliance test report containing the results of the emission test to the Department no later than 60 days after completion of the emission test.

Since the two Cummins generators are identical, then the Department will use its engineering judgement to exempt Sims Metal East LLC-Queens Plant from performing a stack test on the second Cummins Generator #2 (SN 23196803) at Emission Point 0005C.

As per 6 NYCRR 227-2.6 NOx RACT requirements, the
facility

has conducted stack testing in January 2005 on the three generators in Emission Unit 2-00002 (Main, Cummins #1 & Cummins #2 - Emission Sources 00001, 0005B & 0005C; respectively). Existing measures described in the NOx RACT Compliance and Operating Plan for the site have reduced overall NOx emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. The NOx RACT Compliance and Operating Plan Implementation allows

emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction offsets the proposed increase associated with the 510 additional hours of operation of the two Cummins generators and the 8,760 hours of operation of the two new identical Plastics Recycling Generators.

On April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on implementation of the NOx RACT



Compliance and Operating Plan to NYSDEC Region II Office.

The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuel control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by

NYSDEC

as the upper threshold of what is economically achievable.

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 for the reasons provided. It also provides for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators at the facility as demonstrated in testing conducted in 2005.

Manufacturer Name/Model Number: CUMMINS GENERATOR #2 - 300 KW DIESEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 6.0 grams per brake horsepower-hour

Reference Test Method: METHOD 7, 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 70: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005C
Emission Source: 0005C



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

Item 70.2:

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.

At the monitoring frequency stated below 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.

Manufacturer Name/Model Number: CUMMINS GENERATOR # 2 - 300 KW DIESEL (BACKUP)

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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.



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

Condition 71: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

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

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Item 71.2:

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.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M
1000 DQFAA(Max Rated Output is 1,322 HP)

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 1/30/2009.

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

Condition 72: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

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

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 72.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition is for the two new identical Plastics Recycling engine-generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002, which are rich burn internal combustion engines with compression ignition source : The owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe ozone nonattainment area, that provides primary power or is used for peak shaving generation, must comply with the 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this emission limit must be determined with a one 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.

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 oil analysis, and fuel consumption versus power output of the unit.

To comply with the NOx emission limit of 4.0 gram/bhphr for internal combustion engines stated in 6NYCRR 227-2.4(f)(2), the facility will maintain daily records which shall include:

1. Hours of operation per day by each engine-generator
2. Gallons of #2 diesel fuel burned by each engine-generator



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 1/30/2009.

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

Condition 73: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This is a NOx variance for the new effective NOx emission limits requested by SimsMetal East LLC-Queens Plant and is part of this permit renewal. This condition for 6 NYCRR 227-2.4(f)(2)(ii) applies to the two new identical Plastics Recycling engine-generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002.

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.



Compliance with this emission limit shall be determined with one hour average in accordance with section 227-2.6 (a) (7) of this subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6 (a) (2) of this subpart.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification. Vendor certification will be used to demonstrate compliance.

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 in this permit. It also provides for establishing a NOx emission limit of 4.0 grams per brake horsepower-hour for the two new identical Plastics Recycling Generators # 1 & # 2 (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr. The NOx emission limit of 4.0 grams per brake horsepower-hour should be granted.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M
1000 DQFAA(Max Rated Output 1,322 HP)
Upper Permit Limit: 4.0 grams per brake horsepower-hour
Reference Test Method: 40 CFR 60 APP A
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING
OCCURRENCE

Condition 74: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

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

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D



Process: 002

Emission Source: 0005D

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

Item 74.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For those sources for which the owner or operator demonstrates that the applicable presumptive RACT emission limit of 2.3 grams per brake horsepower-hour in section 227-2.4 of this Subpart is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic or technical feasibility must include, but is not limited to, 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 April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on implementation of the NOx RACT Compliance and Operating Plan to NYSDEC Region II Office.

The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low sulfur fuels control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by

NYSDEC

as the upper threshold of what is economically achievable.

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 6.0 grams per brake horsepower-hour for all of the three generators (Emission Sources 00001, 0005B & 0005C) at the



facility as demonstrated in testing conducted in 2005. In addition, the NOx emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastics Recycling Generators # 1 & # 2 (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

With a variance to be granted from full compliance with NOx RACT requirements described elsewhere in this permit renewal, existing measures described in the NOx RACT Compliance and Operating Plan for the site have reduced overall NOx emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. The NOx RACT Compliance and Operating Plan Implementation allows

emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction offsets the proposed increase associated with the 510 additional hours of operation of the two Cummins generators and the 8,760 hours of operation of the two new identical Plastics Recycling Generators.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: NUMBER 2 OIL
Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M
1000 DQFAA(Max Rated Output 1,322 HP)
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 4.0 grams per brake horsepower-hour
Monitoring Frequency: HOURLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 75: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013



Applicable Federal Requirement:6 NYCRR 227-2.6

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 75.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Since the two new Cummins Plastics Recycling Engines, one at Emission Point 0005D and the other at Emission Point 0005E (Emission Sources 0005D & 0005E) that will be installed at the facility are identical, therefore; emission profiles of both Cummins Plastics Recycling Engines are expected to be the same and the Department will use its engineering judgement to exempt the facility from performing a stack test on the second Cummins Plastics Recycling generator #2 (Emission Source 0005E) at Emission Point 0005E. These values represent a significant reduction in NO_x emissions from the implementation of the elements of the NO_x RACT Operating and Compliance Plan.

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).

The facility is requesting to be granted a NO_x variance with this Title V renewal operating permit from the NO_x emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. The renewal permit also provides for establishing a NO_x emission limit of 6.0 grams per brake horsepower-hour for all of the three generators (Main, Cummins #1 & Cummins #2) at the facility as was



demonstrated in the stack testing that was conducted on January 18-20, 2005. The two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E) have a manufacturer's specification of 4.0 gm/bhp-hr.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification. Vendor certification will be used to demonstrate compliance.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: NUMBER 2 OIL
Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M 1000 DQFAA(Max Rated Output 1,322 HP)
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 4.0 grams per brake horsepower-hour
Monitoring Frequency: HOURLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 76: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 227-2.6 (a)
(2)

Item 76.1:
The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 76.2:
Compliance Certification shall include the following monitoring:



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

Monitoring Description:

The owner/operator of internal combustion engines may opt to employ a continuous emissions monitoring system (CEMS),

or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in subdivision (c) of this section. Those internal combustion engines which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of subdivision (b) of this section to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M
1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per brake horsepower-hour

Reference Test Method: CEMS

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC
MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 77: Compliance Certification
Effective between the dates of 09/26/2008 and
09/25/2013

Applicable Federal Requirement:6 NYCRR 227-2.6 (c)

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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



Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition is for the new 1,000 KW Plastics Recycling #1 engine generator (Emission Source 0005D at Emission Point 0005D). The owner/operator of internal combustion engines shall perform initial compliance stack tests as described in subdivision (c) of this section to verify NOx emissions to demonstrate compliance with Subpart 2.6(a).

Stack Test Requirements: The owner/operator of those facilities required to stack test under subdivision (a) of this section shall:

1. submit compliance test protocol to the department for approval at least 90 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. utilize procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title. For internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.
3. submit a compliance test report containing the results of the emission test to the Department no later than 60 days after completion of the emission test.

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 for the new 1,000 KW Plastics Recycling #1 engine generator (Emission Source 0005D at Emission Point 0005D). It also provides for establishing a NOx emission limit of 4.0 grams per brake horsepower-hour for the new 1,000 KW



Plastics Recycling engine generator (Emission Source 0005D at Emission Point 0005D) as per the manufacturer's technical specification information.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification. Vendor certification will be used to demonstrate compliance.

The following is information regarding the two new identical Cummins Plastics Recycling Generators (Emission Sources 0005D & 0005E):

Model year: 2007

Power Output: 1000 KW (1,322 bhp maximum rated output) each

Cylinder Displacement: 2.54 liters/cylinder (30.5 liters total for 12 cylinders) each

Operation: Non-emergency - 8,760 hrs/yr combined

This is not a fire engine.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per brake horsepower-hour

Reference Test Method: METHOD 7, 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 78: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 227.2 (b)

(1)



Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 78.2:

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.

At the monitoring frequency stated below 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.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle, Model 750 DQFAA (Max Rated Output is 1,322 HP)
Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.10 pounds per million Btus
Reference Test Method: EPA RM 5

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 79: EPA Region 2 address.
Effective between the dates of 09/26/2008 and
09/25/2013

Applicable Federal Requirement:40CFR 60.4, NSPS

Subpart A

Item 79.1:

This Condition applies to

Emission Unit: 2-00002

Emission Point: 0005D

Process: 002

Emission Source: 0005D

Item 79.2:

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 80: Availability of information.



Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 80.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Item 80.2:

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 81: Circumvention.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 81.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Item 81.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 82: Monitoring requirements.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 82.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Item 82.2:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

Condition 83: Modifications.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 83.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Item 83.2:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 84: Reconstruction.
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 84.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Item 84.2:

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

Condition 85: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4200, NSPS Subpart IIII

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



CAS No: 0NY075-00-5 PM-10

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Standards of Performance for Stationary Compression Ignition IC Engines.

(a) The provisions of this subpart are applicable to manufacturers, owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (30) of this section. For the purposes of this part, the date that construction commences is the date the engine is ordered by the owner or operator.

(i) 2007 or later, for engines that are not fire pump engines.

(2) Owners and operators of stationary CI ICE that commenced construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines.

The 40 CFR 60.4200, Subpart IIII requires new engine generators > 560 KW (equivalent to > 750 HP) installed after July 11, 2005 to be certified by the manufacturer for compliance with the 40 CFR 60.4200, Subpart IIII PM emission limitation of 0.2 g/KW-hr (equivalent to 0.15 g/bhp-hr).

Since the two new identical 1.000 KW Plastics Recycling Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined, then the total combined PM emission from Emission Sources 0005D & 0005E is as follows:

$$0.15 \text{ g/bhp-hr} \times 1,322 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ g} \times 1 \text{ ton}/2,000 \text{ lbs} = 1.9131 \text{ tons/yr}$$

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #1,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: PM-10

Upper Permit Limit: 0.15 grams per brake horsepower-hour

Reference Test Method: EPA Approved Method

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 86: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4200, NSPS Subpart IIII

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Standards of Performance for Stationary Compression
Ignition IC Engines.

(a) The provisions of this subpart are applicable to manufacturers, owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (30) of this section. For the purposes of this part, the date that construction commences is the date the engine is ordered by the owner or operator.

(i) 2007 or later, for engines that are not fire pump engines.

(2) Owners and operators of stationary CI ICE that commenced construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines.

The 40 CFR 60.4200, Subpart III requires new engine generators > 560 KW (equivalent to > 750 HP) installed after July 11, 2005 to be certified by the manufacturer for compliance with the 40 CFR 60.4200, Subpart IIII CO emission limitation of 3.5 g/KW-hr (equivalent to 2.6 g/bhp-hr).

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Since the two new identical 1.000 KW Plastics Recycling Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined, then the total combined CO emission from Emission Sources 0005D & 0005E is as follows:

$$2.6 \text{ g/bhp-hr} \times 1,322 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb/454 g} \\ \times 1 \text{ ton/2,000 lbs} = 33.16 \text{ tons/yr}$$

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #1,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 2.6 grams per brake horsepower-hour

Reference Test Method: EPA Approved Method

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/2009.

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

Condition 87: Compliance Certification

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4204(b), NSPS Subpart IIII

Item 87.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005D

Process: 002

Emission Source: 0005D

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later non-emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power. Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and installed and configured according to the manufacturer's specifications.

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Records documenting these actions must be kept on-site.

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 1/30/2009.

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

Condition 88: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4204(b), NSPS Subpart III

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005D

Process: 002

Emission Source: 0005D

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The two new Plastics Recycling Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) are identical, each is rated 1,322 HP (1,000 KW), the model year is 2007, and the cylindrical displacement for each engine is 2.54 liters/cylinder (30.5 liters total for the 12 cylinders).

The owner or operator of a 2007 model year and later no-emergency stationary compression ignition (CI) internal combustion engine with a maximum power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the emission standards for new non-road CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power. Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on site.

The new generator set for the Plastics Recycling operations at the facility, is a two identical 1,000 KW Peak Load Cummins Diesel Generator (Model 750DQFAA) each that meets EPA Tier II (40 CFR 89) emission requirements

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



as recently proposed in the New Source Performance Standards published by USEPA. The hours of operation for new generator set (Emission Sources 0005D & 0005E in Emission unit 2-00002) will be limited to maintain Restricted Potential to Emit (RPTE) NO_x emissions below USEPA and NYSDEC significance levels for major source permitting and New Source Review (25 tpy). The clean burning technology provided by this equipment will enable up to 8,760 hours of operation/year while limiting NO_x RPTE to approximately 51.02 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit.

The NO_x RACT Compliance and Operating Plan Implementation allows emission factors to be lowered for NO_x at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction offsets the proposed increase associated with the 510 additional hours of operation of the two Cummins generators (2.03 tons/yr) and the 8,760 hours of operation of the two new identical Plastics Recycling Generators (51.02 tons/yr).

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 1/30/2009.

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

Condition 89: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207, NSPS Subpart III

Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005D
Emission Source: 0005D

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 89.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Beginning October 1, 2007, owners and operators of stationary CI internal combustion engines subject to this subpart must use diesel fuel that meets the requirements of 40 CFR 80.510(a), which are:

1) not greater than 500 parts per million sulfur content and;

2) minimum cetane index of 40 or a maximum aromatic content of 35 percent.

The vendor certificates of analysis from vendor shipments will be accepted in lieu of fuel sampling and analysis, and hence the vendor certification will be used to demonstrate compliance.

Process Material: DIESEL OIL

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #1,M 1000 DQFAA(Max Rated Output 1,322 HP)

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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 90: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(a), NSPS Subpart IIII

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005D
Emission Source: 0005D

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel below a maximum aromatic content of 35 percent per gallon as referenced in



40 CFR Part 80.510(a). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: AROMATIC CONTENT
Upper Permit Limit: 35 percent
Monitoring Frequency: PER DELIVERY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207(a), NSPS Subpart III

Item 91.1:
The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 0005D
Process: 002	Emission Source: 0005D

Item 91.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire diesel fuel below a minimum cetane index of 40 per gallon as referenced in 40 CFR Part 80.510(a). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #1,M 1000 DQFAA(Max Rated Output is 1,322 HP)

Parameter Monitored: CETANE INDEX

Lower Permit Limit: 40 ratio

Monitoring Frequency: PER DELIVERY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 92: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(a), NSPS Subpart IIII

Item 92.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005D

Process: 002

Emission Source: 0005D

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel which exceeds a sulfur content of 500 ppm per gallon as referenced in 40 CFR Part 80.510(a). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be



maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 500 parts per million 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 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 93: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(b), NSPS Subpart IIII

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 0005D
Process: 002	Emission Source: 0005D

Item 93.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine with a displacement of less than 30 liters per cylinder and which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel below a maximum aromatic content of 35 percent per gallon as referenced in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: AROMATIC CONTENT

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Upper Permit Limit: 35 percent
Monitoring Frequency: PER DELIVERY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 94: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart III

Item 94.1:
The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 0005D
Process: 002	Emission Source: 0005D

Item 94.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire diesel fuel below a minimum cetane index of 40 per gallon as referenced in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: CETANE INDEX
Lower Permit Limit: 40 ratio
Monitoring Frequency: PER DELIVERY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 95: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart III

Item 95.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005D
Emission Source: 0005D

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire non-road diesel fuel which exceeds a sulfur content of 15 ppm per gallon as per 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of non-road diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 15 parts per million 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 1/30/2009.

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

Condition 96: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013



Applicable Federal Requirement:40CFR 60.4207(c), NSPS Subpart III

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Meeting the fuel requirements for the owner or operator of a stationary CI internal combustion engine subject to this subpart.

(c) Owners or operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner/operator is required to submit a new petition to the Administrator.

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 1/30/2009.

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

Condition 97: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4209(b), NSPS Subpart III

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

Item 97.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary compression ignition IC engine subject to the emission standards in 60.4204 and equipped with a diesel particulate filter must install a backpressure monitor that provides notice when the high backpressure limit of the engine is approached. The owner and/or operator shall maintain records of backpressure on a regular basis.

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 1/30/2009.

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

Condition 98: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4211(d)(2), NSPS Subpart

III

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005D

Process: 002

Emission Source: 0005D

Regulated Contaminant(s):

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

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must comply with the emission standards specified in this subpart, the owner/operator must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner/operator must also meet the requirements of 40 CFR parts 89.94 and/or 1068, as they apply to the owner/operator.

(c) The owner or operator of a 2007 model year and later stationary CI internal combustion engine must comply



with the emission standards specified in Part 60.4204(b) or Part 60.4205(b), and the owner or operator must comply by purchasing an engine certified to the emission standards in Part 60.4204(b), or Part 60.4205(b) or (c) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(d) The owner or operator of a 2007 model year and later stationary CI internal combustion engine must comply with the emission standards specified in Part 60.4204(c) or Part 60.4205(d), and must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (2) of this section.

(1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in Part 60.4213.

(2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

(i) Identification of the specific parameters the owner/operator proposes to monitor continuously;

(ii) A discussion of the relationship between these parameters and NO_x and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NO_x and PM emissions;

(iii) A discussion of how the owner/operator will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(iv) A discussion identifying the methods and the instruments the owner/operator will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(v) A discussion identifying the frequency and methods for recalibrating the instruments the owner/operator will use for monitoring these parameters.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 99: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4212, NSPS Subpart III

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005D
Process: 002 Emission Source: 0005D

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

Item 99.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Stationary Compression Ignition IC Engines displacing <
30 L/cylinder - performance test methods and
procedures:

Owners or operators of stationary CI ICE with a
displacement of less than 30 liters per cylinder who
conduct performance tests pursuant to this subpart must do
so according to paragraphs (a) through (c) of this
section:

(a) The performance test must be conducted according to
the in-use testing procedures in 40 CFR part 1039, subpart
F.

(b) Exhaust emissions from stationary CI ICE that are
complying with the emission standards for new CI engines
in 40 CFR part 1039 must not exceed the not-to-exceed
(NTE) standards for the same model year and maximum engine
power as required in 40 CFR 1039.101(e) and 40 CFR
1039.102(g)(1), except as specified in 40 CFR 1039.104(d).
This requirement starts when NTE requirements take effect
for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are
complying with the emission standards for new CI engines
in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not
exceed the NTE numerical requirements, rounded to the same
number of decimal places as the applicable standards in 40
CFR 89.112 or 40 CFR 94.8, as applicable, determined from
the following equation:



NTE requirement for each pollutant = $(1.25) \times (\text{STD})$
(Eq. 1)

Where:

STD = the standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in Part 60.4213 of this subchapter, as appropriate.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification.

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 1/30/2009.

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

Condition 100: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Item 100.2:

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

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



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.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #2,M 1000 DQFAA(Max Rated Output is 1,322 HP)

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 1/30/2009.

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

Condition 101: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Regulated Contaminant(s):

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



Item 101.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition is for the two new identical Plastics Recycling engine-generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002, which are rich burn internal combustion engines with compression ignition source : The owner or operator of a stationary internal combustion engine of 200 horsepower or larger in the severe ozone nonattainment area, that provides primary power or is used for peak shaving generation, must comply with the 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this emission limit must be determined with a one 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.

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 oil analysis, and fuel consumption versus power output of the unit.

To comply with the NO_x emission limit of 4.0 gram/bhphr for internal combustion engines stated in 6NYCRR 227-2.4(f)(2), the facility will maintain daily records which shall include:

1. Hours of operation per day by each engine-generator
2. Gallons of #2 diesel fuel burned by each engine-generator

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 1/30/2009.

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



Condition 102: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

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

Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This is a NOx variance for the new effective NOx emission limits requested by SimsMetal East LLC-Queens Plant and is part of this permit renewal. This condition for 6 NYCRR 227-2.4(f)(2)(ii) applies to the two new identical Plastic Recycling engine-generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002.

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.

Compliance with this emission limit shall be determined with one hour average in accordance with section 227-2.6 (a) (7) of this subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6 (a) (2) of this subpart.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification. Vendor certification will be used to demonstrate compliance.

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 in this permit. It also provides for establishing a NOx emission limit of 4.0 grams per brake horsepower-hour for the two new

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



identical Plastic Recycling Generators # 1 & # 2 (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr. The NOx emission limit of 4.0 grams per brake horsepower-hour should be granted.

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Upper Permit Limit: 4.0 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 APP A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 103: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

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

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Regulated Contaminant(s):

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

Item 103.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For those sources for which the owner or operator demonstrates that the applicable presumptive RACT emission limit of 2.3 grams per brake horsepower-hour in section 227-2.4 of this Subpart is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic or technical feasibility must include, but is not limited to, 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 April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on implementation of the NOx RACT Compliance and Operating Plan to NYSDEC Region II Office. The facility has provided the results of the December 2004 testing exercise evaluating the effectiveness of low

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



sulfur fuel control of NOx emissions. Testing results indicate that the generators are achieved lower than 6.0 grams per brake horsepower-hour, the value used by NYSDEC as the upper threshold of what is economically achievable.

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 6.0 grams per brake horsepower-hour for all of the three generators (Emission Sources 00001, 0005B & 0005C) at the facility as demonstrated in testing conducted in 2005. In addition, the NOx emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastic Recycling Generators #1 & #2 (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

With a variance to be granted from full compliance with NOx RACT requirements described elsewhere in this permit renewal, existing measures described in the NOx RACT Compliance and Operating Plan for the site have reduced overall NOx emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. The NOx RACT Compliance and Operating Plan Implementation allows emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This reduction offsets the proposed increase associated with the 510 additional hours of operation of the two Cummins generators and the 8,760 hours of operation of the two new identical Plastic Recycling Generators.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS Plastic Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per brake horsepower-hour

Monitoring Frequency: HOURLY

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 104: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013



Applicable Federal Requirement:6 NYCRR 227-2.6

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

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

Item 104.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Since the two new Cummins Plastic Recycling Engines, one at Emission Point 0005D and the other at Emission Point 0005E (Emission Sources 0005D & 0005E) that will be installed at the facility are identical, therefore; emission profiles of both Cummins Plastic Recycling Engines are expected to be the same and the Department will use its engineering judgement to exempt the facility from performing a stack test on the second Cummins Plastic Recycling generator #2 (Emission Source 0005E) at Emission Point 0005E. These values represent a significant reduction in NOx emissions from the implementation of the elements of the NOx RACT Operating and Compliance Plan.

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).

The facility is requesting to be granted a NOx variance with this Title V renewal operating permit from the NOx emission limit of 2.3 grams per brake horsepower-hour for the reasons provided. The renewal permit also provides for establishing a NOx emission limit of 6.0 grams per brake horsepower-hour for all of the three generators (Main, Cummins #1 & Cummins #2) at the facility as was demonstrated in the stack testing that was conducted on January 18-20, 2005. The two new identical Plastics Recycling Generators (Emission Sources 0005D & 0005E) have a manufacturer's specification of 4.0 gm/bhp-hr.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



manufacturer's certification. Vendor certification will be used to demonstrate compliance.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: CUMMINS Plastic Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per brake horsepower-hour

Monitoring Frequency: HOURLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -

SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

Condition 105: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:6 NYCRR 227-2.6 (a) (2)

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Regulated Contaminant(s):

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

Item 105.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The owner/operator of internal combustion engines may opt to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in subdivision (c) of this section. Those internal combustion engines which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of subdivision (b) of this section to demonstrate compliance, including a 24 hour daily arithmetic average NOx emission rate.

Manufacturer Name/Model Number: CUMMINS Plastic Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per brake horsepower-hour



Reference Test Method: CEMS
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 106: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 6 NYCRR 227-2.6 (c)

Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

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

Item 106.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

This condition is for the new 1,000 KW Plastic Recycling #2 engine generator (Emission Source 0005E at Emission Point 0005E). The owner/operator of internal combustion engines shall perform initial compliance stack tests as described in subdivision (c) of this section to verify NO_x emissions to demonstrate compliance with Subpart 2.6(a).

Stack Test Requirements: The owner/operator of those facilities required to stack test under subdivision (a) of this section shall:

1. submit compliance test protocol to the department for approval at least 90 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. utilize procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title. For internal combustion engines, utilize

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.

3. submit a compliance test report containing the results of the emission test to the Department no later than 60 days after completion of the emission test.

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 for the new 1,000 KW Plastics Recycling #2 engine generator (Emission Source 0005E at Emission Point 0005E). It also provides for establishing a NOx emission limit of 4.0 grams per brake horsepower-hour for the new 1,000 KW Plastics Recycling engine generator (Emission Source 0005E at Emission Point 0005E) as per the manufacturer's technical specification information.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification. Vendor certification will be used to demonstrate compliance.

The following is information regarding the two new identical Cummins Plastics Recycling Generators (Emission Sources 0005D & 0005E):

Model year: 2007

Power Output: 1000 KW (1,322 bhp maximum rated output) each

Cylinder Displacement: 2.54 liters/cylinder (30.5 liters total for 12 cylinders) each

Operation: Non-emergency - 8,760 hrs/yr combined

This is not a fire engine.

Manufacturer Name/Model Number: CUMMINS Plastic Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.0 grams per brake horsepower-hour

Reference Test Method: METHOD 7, 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 107: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013



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

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

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

Item 107.2:

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.

Upon request 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: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Condition 108: EPA Region 2 address.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 108.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 108.2:

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 109: Availability of information.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 109.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 109.2:

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 110: Circumvention.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 110.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Process: 002

Emission Source: 0005E

Item 110.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 111: Monitoring requirements.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 111.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 111.2:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

Condition 112: Modifications.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 112.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 112.2:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 113: Reconstruction.

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 113.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 113.2:

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):



- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

Condition 114: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4200, NSPS Subpart IIII

Item 114.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Standards of Performance for Stationary Compression
Ignition IC Engines.

(a) The provisions of this subpart are applicable to manufacturers, owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (30) of this section. For the purposes of this part, the date that construction commences is the date the engine is ordered by the owner or operator.

(i) 2007 or later, for engines that are not fire pump

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



engines.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines.

The 40 CFR 60.4200, Subpart III requires new engine generators > 560 KW (equivalent to > 750 HP) installed after July 11, 2005 to be certified by the manufacturer for compliance with the 40 CFR 60.4200, Subpart III CO emission limitation of 3.5 g/KW-hr (equivalent to 2.6 g/bhp-hr).

Since the two 1.000 KW Plastics Recycling Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined, then the total combined CO emission from Emission Sources 0005D & 0005E is as follows:

2.6 g/bhp-hr x 1,322 bhp x 8,760 hrs/yr x 1 lb/454 g x 1 ton/2,000 lbs = 33.16 tons/yr

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 2.6 grams per brake horsepower-hour

Reference Test Method: EPA Approved Method

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/2009.

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

Condition 115: Compliance Certification Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4200, NSPS Subpart III

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Process: 002

Emission Point: 0005E Emission Source: 0005E

Regulated Contaminant(s): CAS No: 0NY075-00-5 PM-10



Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Standards of Performance for Stationary Compression Ignition IC Engines.

(a) The provisions of this subpart are applicable to manufacturers, owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (30) of this section. For the purposes of this part, the date that construction commences is the date the engine is ordered by the owner or operator.

(i) 2007 or later, for engines that are not fire pump engines.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines.

The 40 CFR 60.4200, Subpart III requires new engine generators > 560 KW (equivalent to > 750 HP) installed after July 11, 2005 to be certified by the manufacturer for compliance with the 40 CFR 60.4200, Subpart III PM emission limitation of 0.2 g/KW-hr (equivalent to 0.15 g/bhp-hr).

Since the two 1,000 KW Plastics Recycling Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002 are to operate up to 8,760 hours per year combined, then the total combined PM emission from Emission Sources 0005D & 0005E is as follows:

$$0.15 \text{ g/bhp-hr} \times 1,322 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ g} \times 1 \text{ ton}/2,000 \text{ lbs} = 1.9131 \text{ tons/yr}$$

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

Parameter Monitored: PM-10

Upper Permit Limit: 0.15 grams per brake horsepower-hour

Reference Test Method: EPA Approved Method

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -

SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 116: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4204(b), NSPS Subpart III

Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 0005E
Process: 002	Emission Source: 0005E

Item 116.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later non-emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power. Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

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 1/30/2009.

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

Condition 117: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4204(b), NSPS Subpart III

Item 117.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 0005E
Process: 002	Emission Source: 0005E



Item 117.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The two new Plastics Recycling Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) are identical, each is rated 1,322 HP (1,000 KW), the model year is 2007, and the cylindrical displacement for each engine is 2.54 liters/cylinder (30.5 liters total for the 12 cylinders).

The owner or operator of a 2007 model year and later no-emergency stationary compression ignition (CI) internal combustion engine with a maximum power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters/cylinder will require certification to the emission standards for new non-road CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power. Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on site.

The new generator set for the Plastics Recycling operations at the facility, is a two identical 1,000 KW Peak Load Cummins Diesel Generator (Model 750DQFAA) each that meets EPA Tier II (40 CFR 89) emission requirements as recently proposed in the New Source Performance Standards published by USEPA. The hours of operation for new generator set (Emission Sources 0005D & 0005E in Emission unit 2-00002) will be limited to maintain Restricted Potential to Emit (RPTE) NOx emissions below USEPA and NYSDEC significance levels for major source permitting and New Source Review (25 tpy). The clean burning technology provided by this equipment will enable up to 8,760 hours of operation/year while limiting NOx RPTE to approximately 51.02 tons/year. This is according to the manufacturer's technical specification information and calculations of potential to emit and restricted potential to emit.

The NOx RACT Compliance and Operating Plan Implementation allows emission factors to be lowered for NOx at all three existing combustion sources and is documented throughout this permit renewal. This will result in an approximate 52.74 tons/year reduction in PTE at the facility. This

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



reduction offsets the proposed increase associated with the 510 additional hours of operation of the two Cummins generators (2.03 tons/yr) and the 8,760 hours of operation of the two new identical Plastics Recycling Generators (51.02 tons/yr).

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 1/30/2009.

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

Condition 118: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207, NSPS Subpart IIII

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 118.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Beginning October 1, 2007, owners and operators of stationary CI internal combustion engines subject to this subpart must use diesel fuel that meets the requirements of 40 CFR 80.510(a), which are:

1) not greater than 500 parts per million sulfur content and;

2) minimum cetane index of 40 or a maximum aromatic content of 35 percent.

The vendor certificates of analysis from vendor shipments will be accepted in lieu of fuel sampling and analysis, and hence the vendor certification will be used to demonstrate compliance.

Process Material: DIESEL OIL

Manufacturer Name/Model Number: CUMMINS Plastics Recycling #2,M 1000 DQFAA(Max Rated Output 1,322 HP)

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



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: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 119: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(a), NSPS Subpart IIII

Item 119.1:
The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 0005E
Process: 002	Emission Source: 0005E

Item 119.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:
Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel below a maximum aromatic content of 35 percent per gallon as referenced in 40 CFR Part 80.510(a). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: AROMATIC CONTENT
Upper Permit Limit: 35 percent
Monitoring Frequency: PER DELIVERY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 120: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207(a), NSPS Subpart IIII

Item 120.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel below a minimum cetane index of 40 per gallon as referenced in 40 CFR Part 80.510(a). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #2,M 1000 DQFAA(Max Rated Output is 1,322 HP)

Parameter Monitored: CETANE INDEX

Lower Permit Limit: 40 ratio

Monitoring Frequency: PER DELIVERY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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



Condition 121: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(a), NSPS Subpart III

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 121.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire diesel fuel which exceeds a sulfur content of 500 ppm per gallon as referenced in 40 CFR Part 80.510(a). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 500 parts per million 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 1/30/2009.

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

Condition 122: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(b), NSPS Subpart III



Item 122.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

Item 122.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine with a displacement of less than 30 liters per cylinder and which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire diesel fuel below a maximum aromatic content of 35 percent per gallon as referenced in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: AROMATIC CONTENT
Upper Permit Limit: 35 percent
Monitoring Frequency: PER DELIVERY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 123: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart III

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Item 123.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine displacing less 30 liters per cylinder and which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire diesel fuel below a minimum cetane index of 40 per gallon as referenced in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: CETANE INDEX

Lower Permit Limit: 40 ratio

Monitoring Frequency: PER DELIVERY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 124: Compliance Certification

Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart III

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Item 124.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268



Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire non-road diesel fuel which exceeds a sulfur content of 15 ppm per gallon as per 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of non-road diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 15 parts per million 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 1/30/2009.

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

Condition 125: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4207(c), NSPS Subpart IIII

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Regulated Contaminant(s):

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

Item 125.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Meeting the fuel requirements for the owner or operator of a stationary CI internal combustion engine subject to



this subpart.

(c) Owners or operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner/operator is required to submit a new petition to the Administrator.

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 1/30/2009.

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

Condition 126: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement:40CFR 60.4209(b), NSPS Subpart III

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 0005E

Process: 002

Emission Source: 0005E

Item 126.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary compression ignition IC engine subject to the emission standards in 60.4204 and equipped with a diesel particulate filter must install a backpressure monitor that provides notice when the high backpressure limit of the engine is approached. The owner and/or operator shall maintain records of backpressure on a regular basis.

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 1/30/2009.

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

Condition 127: Compliance Certification



Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4211(d)(2), NSPS Subpart

III

Item 127.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 0005E
Process: 002 Emission Source: 0005E

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

Item 127.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must comply with the emission standards specified in this subpart, the owner/operator must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner/operator must also meet the requirements of 40 CFR parts 89.94 and/or 1068, as they apply to the owner/operator.

(c) The owner or operator of a 2007 model year and later stationary CI internal combustion engine must comply with the emission standards specified in Part 60.4204(b) or Part 60.4205(b), and the owner or operator must comply by purchasing an engine certified to the emission standards in Part 60.4204(b), or Part 60.4205(b) or (c) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(d) The owner or operator of a 2007 model year and later stationary CI internal combustion engine must comply with the emission standards specified in Part 60.4204(c) or Part 60.4205(d), and must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (2) of this section.

(1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in Part 60.4213.



(2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

(i) Identification of the specific parameters the owner/operator proposes to monitor continuously;

(ii) A discussion of the relationship between these parameters and NO_x and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NO_x and PM emissions;

(iii) A discussion of how the owner/operator will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(iv) A discussion identifying the methods and the instruments the owner/operator will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(v) A discussion identifying the frequency and methods for recalibrating the instruments the owner/operator will use for monitoring these parameters.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 128: Compliance Certification
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable Federal Requirement: 40CFR 60.4212, NSPS Subpart III

Item 128.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005E
Emission Source: 0005E

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

Item 128.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Stationary Compression Ignition IC Engines displacing < 30 L/cylinder - performance test methods and procedures:

Owners or operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (c) of this section:

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standards in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD})$$

(Eq. 1)

Where:

STD = the standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in Part 60.4213 of this subchapter, as appropriate.

In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification.

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 1/30/2009.
Subsequent reports are due every 6 calendar month(s).



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 129: Contaminant List
Effective between the dates of 09/26/2008 and 09/25/2013

Applicable State Requirement:ECL 19-0301

Item 129.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000630-08-0
Name: CARBON MONOXIDE



CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY075-00-5
Name: PM-10

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

Condition 2-2: Unavoidable noncompliance and violations
Effective between the dates of 06/15/2010 and 09/25/2013

Applicable State Requirement:6 NYCRR 201-1.4

Item 2-2.1:

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 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 2-3: Emission Unit Definition
Effective between the dates of 06/15/2010 and 09/25/2013

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 2-3.1(From Mod 2):

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

Emission Unit: 2-00002

Emission Unit Description:

Emission Unit 2-00002 is for the generation of electricity via # 2 fuel oil fired engine generator sets for facility operation. Process 002 consists of # 2 diesel fuel fired in the four engine-generator sets in Emission Unit 2-00002. This emission unit consists of the following four engine-generators:

1. The first Cummins Generator # 1 - maximum rated output of 402 bhp (300 KW) diesel as a backup is defined as Emission Source 0005B with corresponding Emission Point 0005B. The combined Cummins # 1 & the Cummins # 2 Generators (Emission Sources 0005B & 0005C; respectively) are limited to a combined 8,760 hours of operation per year.

2. The second Cummins Generator # 2 - maximum rated output of 402 bhp (300 KW) diesel as backup is defined as Emission Source 0005C with corresponding Emission Point 0005C. The combined Cummins # 1 & the Cummins # 2 Generators are limited to a combined 8,760 hours of operation per year.

4. The two identical Cummins Plastics Recycle Generators - maximum rated output of 1,322 bhp (1000 KW) each diesel as primary for Plastics Recycling (Emission Sources 0005D & 0005E) with corresponding Emission Points 0005D & 0005E; respectively. The two Plastics Recycle Generators are to operate up to 8,760 hours of combined operation per year.



Building(s): GENERATOR

Condition 2-4: Air pollution prohibited
Effective between the dates of 06/15/2010 and 09/25/2013

Applicable State Requirement:6 NYCRR 211.2

Item 2-4.1:

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 2-5: Emission Point Definition By Emission Unit
Effective between the dates of 06/15/2010 and 09/25/2013

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 2-5.1(From Mod 2):

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

Emission Unit: 2-00002

Emission Point: 00001

Height (ft.): 55 Diameter (in.): 28
NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005B

Height (ft.): 45 Diameter (in.): 8
NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005C

Height (ft.): 41 Diameter (in.): 8
NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005D

Height (ft.): 8 Length (in.): 9 Width (in.): 8
NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Emission Point: 0005E

Height (ft.): 8 Length (in.): 9 Width (in.): 8
NYTMN (km.): 4509.8 NYTME (km.): 589.6 Building: GENERATOR

Condition 2-6: Process Definition By Emission Unit



Effective between the dates of 06/15/2010 and 09/25/2013

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 2-6.1(From Mod 2):

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

Emission Unit: 2-00002

Process: 002

Source Classification Code: 2-03-001-01

Process Description:

Process 002 consists of the firing of # 2 diesel fuel in four (4) engine generators, the two identical 300 KW each diesel Cummins Generators (Cummins # 1 & Cummins # 2), identified as Emission Sources 0005B & 0005C; respectively, and the two new identical 1000 KW each (1,322 bhp maximum rated output each) Cummins Plastics Recycle Generators (Emission Sources 0005D & 0005E) in Emission Unit 2-00002. The flue gas from each engine generator exhaust through its own stack, identified as Emission Points 0005B, 0005C, 0005D and 0005E; respectively. The Cummins # 1 & Cummins # 2 engine generator operates at separate times, depending on the requirement for on-site electricity. The two identical Cummins Plastics Recycle generators (Emission Sources 0005D & 0005E) operate up to 8,760 hours of combined operation/year while limiting the NOx emissions to a maximum of 51.02 tons/year.

The facility's total fuel consumption of # 2 fuel oil for the four generators is limited to 519,468 gallons/year. The two Cummins Generators # 1 - maximum rated output at 402 bhp (300 KW diesel) at Emission Point 0005B, and the Cummins Generator # 2 - maximum rated output at 402 bhp (300 KW diesel) at Emission Point 0005C are together limited to a combined hours of operation of up to 8,760 hours/year and their average fuel consumption is 11.4 gallons/hour and their annual fuel consumption is limited to 99,864 gallons. The two identical Cummins Plastics Recycle Generators (Emission Sources 0005D & 0005E) maximum rated output at 1,322 bhp (750 KW) diesel at Emission Point 0005D are to operate up to combined 8,760 hours per year, their average fuel consumption is 47.9 gallons per hour and their annual fuel consumption is limited to 419,604 gallons.

Cummins # 1 & # 2 Generators: 8,760 hrs x 11.4 gal/hr = 99,864 gal/yr

Cummins Plastics Generator # 1 & # 2 = 8,760 hrs x 47.9 gal/hr = 419,604 gal/yr

The total annual fuel consumption of # 2 oil = 99,864 +



419,604 = 519,468 gal/yr

The Maximum rated Output from each of Cummins #1 & Cummins #2 Generators (Emission sources 0005B & 0005C; respectively in Emission Unit 2-00002) is 402 bhp, therefore the combined NOx emissions are calculated as:

$402 \text{ bhp} \times 8,760 \text{ hrs/yr} \times 6.0 \text{ gm/bhp-hr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2,000 lbs} = 23.27 \text{ tons/yr of NOx emissions}$

The Maximum Rated Output from the two combined Plastics Recycling Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) is 1,322 bhp, therefore the combined NOx emissions are calculated as:

$1,322 \text{ bhp} \times 4.0 \text{ gm/bhp-hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ lb/454 gm} \times 1 \text{ ton/2000 lbs} = 51.02 \text{ tpy of NOx emissions}$

Emission Source/Control: 00001 - Combustion Removal Date: 10/01/2006
Design Capacity: 9,630 horsepower (electric)

Emission Source/Control: 0005B - Combustion
Design Capacity: 300 kilowatts

Emission Source/Control: 0005C - Combustion
Design Capacity: 300 kilowatts

Emission Source/Control: 0005D - Combustion
Design Capacity: 1,000 kilowatts

Emission Source/Control: 0005E - Combustion
Design Capacity: 1,000 kilowatts

