



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6304-00268/00015
Effective Date:

Expiration Date:

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)

This permit serves as renewal for the existing Title V permit for Sims Metal East LLC-Queens Plant (formerly known as Hugo Neu East-Queens Yard and also as Sims Hugo Neu East-Queens Yard). The facility is a scrap metal processing and recycling plant that was originally constructed in the 1970's. The facility generates/produces all its electricity on-site at the Long Island City facility using three lean burn diesel internal combustion engine-generator sets (and two more identical generators are proposed for plastics recycling). All units are fueled by # 2 diesel fuel oil and can be controlled individually, depending on power needs. This facility with emissions of nitrogen oxides from the three diesel generators and two proposed identical diesel generators for on-site electrical power generation in excess of 50 tons per year is a major source subject to the Title V permitting requirements of 40 CFR Part 70 and 6 NYCRR, Part 201-6. The SIC code is 5093 - Scrap and Waste Materials. The units are identified as follow:

1. Main Generator - 9630 HP (6.5 megawatts) diesel, defined as Emission Source 00001 at Emission Point 00001 in Emission Unit 2-00002. The facility is proposing to reduce the allowable hours of operation from 3,050 to 2,200 hours/year. The Maximum Rated Output from the Main Generator is 6,000 bhp, and the average fuel consumption is 301.5 gallons/hour. The annual fuel consumption is 663,300 gallons.



The Maximum Rated Output from the Main Generator (Emission Source 00001 in Emission Unit 2-00002) is 6,000 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)

$6,000 \text{ bhp} \times 6.0 \text{ gm/bhp-hr} \times 2,200 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 87.23$
tpy of NO_x emissions

Annual Fuel Consumption of # 2 fuel oil from the Main Generator:

$2,200 \text{ hours/year} \times 301.5 \text{ gallons/hour} = 663,300 \text{ gallons/year}$

2. Cummins Generator # 1 - 300 KW diesel, defined as Emission Source 0005B at Emission Point 0005B in Emission Unit 2-00002, used as backup. 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 (previous combined of 8,250 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 are used as a backup to the Main Generator (Emission Source 00001 in Emission Unit 2-00002).

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 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 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. Cummins Generator # 2 - 300 KW diesel, defined as Emission Source 0005C at Emission Point 0005C in Emission Unit 2-00002, used as backup. 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 (previous combined of 8,250 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. Cummins # 2 has replaced the 600 KW diesel Caterpillar Generator (Emission Source 0005A in Emission Unit 2-00002) on



1/31/2003, and the Caterpillar Generator was removed from the facility on 12/9/2002. 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).

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:

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

4. In addition to the three generators listed above, SimsMetal East LLC-Queens Plant is proposing to add two new identical 1,000 KW each Cummins Plastics Recycle # 1 & # 2 Diesel Generators (Emission Sources 0005D at Emission Point 0005D & 0005E at Emission Point 0005E in Emission Unit 2-00002) for the Plastics Recycling operations at the facility. These two new identical generators meet 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 these two Plastics Recycling generators 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 Maximum Rated Output from each of the Plastics Recycle 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 Recycle # 1 & # 2 (Emission Sources 0005D & 0005E) will be up to 8,760 hours/year. The average fuel consumption is 47.9 gallons/hour. The annual fuel consumption will be up to 419,604 gallons of diesel fuel.

The Maximum Rated Output from the each of the two combined Cummins Plastics Recycle Generators (Emission Sources 0005D & 0005E in Emission Unit 2-00002) is 1,322 bhp, the combined maximum hours of operation is up to 8,760 per year, 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 Recycle Generators:

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

$$\text{Proposed total fuel consumption of \# 2 fuel oil from the five generators} = 663,300 + 99,864 + 419,604 = 1,182,768 \text{ gallons/year}$$

$$\text{Proposed (Modified) Total maximum NOx emissions from the five generators} = \text{Main} + \text{Combined Cummins \# 1 \& \# 2} + \text{Combined Plastics Recycle} = 87.23 + 23.27 + 51.02 = 161.52 \text{ tpy of NOx emissions}$$

$$\text{Present (Current) Total maximum NOx emissions from the three generators} = \text{Main} + \text{Cummins \# 1} + \text{Cummins \# 2} = 181.39 + 17.93 + 14.94 = 214.26 \text{ tpy of NOx}$$

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

All five engines are fired with # 2 fuel oil and the total annual fuel usage is approximately 1,182,768 gallons. The five generators are collectively identified as Emission Unit 2-00002, which is the generation of electricity via # 2 fuel oil-fired engine-generator sets (Process 002) for facility operation. All five 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 Main Generator at the facility is the primary source of power for all operations. As such, the load is based on facility demand, and there is no way to control the plant's demand or to predict its constant fluctuations. The Cummins # 1 & the Cummins # 2 Generators provide only off-peak load at the facility. As such, these engines, cannot be operated at a maximum load condition. The Title V status of the facility is triggered by the oxides of nitrogen emissions from the five diesel engine generators operated by the facility for on-site electrical power generation. Compliance is maintained via recordkeeping, specifically:

1. Hours of operation by each engine
2. Gallons of # 2 diesel fuel burned by each engine

For the stack testing, it is proposed to conduct three (3) one-hour test runs on each of these engines at typical load that is approximately one-half to three-quarters of the maximum rated capacity of each engine during the term of the permit. The # 2 fuel oil used by each generator set and the hours of operation are recorded and maintained on site.

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 (Main, Cummins # 1 & Cummins # 2). This report was submitted to comply with a variance request to the NOx emission limit of 2.3 gm/bhp-hr pursuant to Part 621, Uniform Procedures Act.

As per 6 NYCRR 227-2.6 NOx RACT, the facility has conducted/performed the latest NOx RACT emission stack testing on January 18-20, 2005 on two of its three engine-generator sets, the Main Generator (Emission Source 00001) and the Cummins # 1 Generator (Emission Source 0005B) in Emission Unit 2-00002 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).

On April 5, 2005, SimsMetal East LLC-Queens Plant submitted an update on the 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 have achieved lower than 6.0 grams per brake horsepower-hour, the value used by NYSDEC as the upper threshold of what is economically achievable.

This Title V renewal includes a request for granting a variance from full compliance with the NOx emission limit of 2.3 grams per brake horsepower-hour for lean burn diesel internal combustion engine-generator effective April 1, 2005 as per 6 NYCRR 227-2.4(f)(2)(ii) 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 Recycle Generators (Emission Sources 0005D & 0005E) as per the manufacturer's performance specification of 4.0 gm/bhp-hr.

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 103.76 (214.26 - 87.23 - 23.27) 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. As a result of the changes mentioned above, the facility will reduce its annual NOx emissions by about 52.74 tons/year (214.26 - 87.23 - 23.27 - 51.02) or 51.02 - 103.76 = - 52.74 tpy, or

Net NOx emission decrease = 161.52 - 214.26 = - 52.74 tpy of NOx



The following is information regarding the two new identical Cummins Plastics Recycle 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.

The two new identical 1,000 KW each Cummins Plastic Recycling Generators (Emission Sources 0005D & 0005E) are subject to 40 CFR 60-III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines for the following:

1. 40 CFR 60-III.4200 - Standard of Performance for Stationary Compression Ignition IC Engines for equipment operation that began on or after April 1, 2006 and is less than or equal to 3,000 horsepower (electric). The two new engine generators are to be certified by the manufacturer for compliance with the 40 CFR 60.4200, Subpart III PM emission limitation of 0.15 g/bhp-hr, and CO emission limitation of 2.6 g/bhp-hr.
2. 40 CFR 60-III.4204(b) - Emission Standards - 2007 or later Non-emergency Stationary CI-IC Engines Displaying < 30 liters/cylinder. This requires the owner or operator of a 2007 model year and later non-emergency stationary compression ignition (CI) internal combustion engine with a maximum power less than or equal to 3,000 HP and a displacement of less than 30 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 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.
3. 40 CFR 60-III.4206 - Stationary Compression Ignition IC Engines - Duration of Emission Standards. This requirement mandates that owners or operators of stationary compression ignition IC engines that achieve the emission standards as required in 40 CFR 60.4204 and 4205 maintain the engines 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.



4. 40 CFR 60-III.4207 - Stationary Compression Ignition IC Engines - Fuel Requirements 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:

- a) not greater than 500 parts per million sulfur content by weight and;
- b) minimum cetane index of 40 or a maximum aromatic content of 35 percent.

5. 40 CFR 60-III.4207(a) - Stationary Compression Ignition IC Engines - Fuel Requirements beginning October 1, 2007. The diesel fuel must used must meet the requirements of 40 CFR 80.510(a). The sulfur content of the diesel oil cannot exceed 500 ppm by weight. The cetane index of the diesel oil must exceed a ratio of 40. The aromatic content of the diesel oil cannot exceed 35%.

6. 40 CFR 60-III.4207(b) - Stationary Compression Ignition IC Engines - Fuel Requirements beginning October 1, 2010. The diesel fuel must used must meet the requirements of 40 CFR 80.510(b) for non-road diesel fuel. The sulfur content of the diesel oil cannot exceed 500 ppm by weight. The cetane index of the diesel oil must exceed a ratio of 40. The aromatic content of the diesel oil cannot exceed 35%.

7. 40 CFR 60-III.4207(c) - Variance for non-compliant fuel - Pre 2011 Model Year Stationary CI-IC engines. This requirement applies to pre-2011 model year stationary compression ignition IC engines who wish to use fuel which does not comply with the fuel requirements in 60.4207(a) or 60.4207(b). It allows the owner/or operator of an applicable engine to petition the Administrator for approval to use remaining non-compliant fuel for the purpose of using up existing fuel inventories. If approved, any variances can be valid for a period of up to six months.

8. 40 CFR 60-III.4208 - Stationary Compression Ignition IC Engines - Deadlines for installing or importing engines produced in previous model year. This requirement establishes deadlines dates beyond which owners and/or operators of affected stationary compression ignition IC engines are prohibited from importing or installing engines manufactured in a previous model year.

9. 40 CFR 60-III.4209(b) - Monitoring requirement - Non-emergency stationary IC-IC engine. The owner and/or operator of a stationary compression ignition internal combustion engine subject to this subpart which is equipped with a diesel particulate filter must install a back pressure monitor to notify the owner and/or operator when the back pressure limit of the engine is approached.

10. 40 CFR 60-III.4211(d)(2) - Stationary Compression Ignition IC Engines - operating parameter monitoring. 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.

11. 40 CFR 60-III.4212 - Stationary Compression Ignition IC Engines displacing <30 L/cylinder - performance test methods and procedures. The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F. 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 sub-chapter, as appropriate. In lieu of the stack testing requirements, many of the engines may meet the testing requirement by a manufacturer's certification.

On 10/31/2006, the facility has removed its second emission unit, Emission Unit 1-00001, which included scrap metal shredding and metals recovery process (Process 001). This emission unit consisted of Emission Point 00002 (shredder), which was associated with Emission Source 00002 and Emission Control 00003 (water spray), Emission Point 00004 (cyclone separator for non-ferrous removal) which was associated with Emission Source 00004, Emission Point 00007 (ferrous product cyclone), which was associated with Emission Source 00007, Emission Point 0000A (z-box metal cyclone separator), which was associated with Emission Source 0000A, and Emission Point 0000F (magnetic cyclone separator - air system), which was associated with Emission Source 0000F. All units within Process 001 operated simultaneously. The facility has also removed the exempt storage silo that stored solid materials that exhausted thru an appropriate emission control device in the Metal Separator Building.

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 227-2.4(f)(2)(ii), with the 6.0 gm/bhp-hr NOx emission limitation variance for lean engines firing diesel fuel for the Main Generator, 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 new 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 five diesel generators (6.5 MW Main Generator, 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 new 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), 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
DIVISION OF ENVIRONMENTAL PERMITS
ONE HUNTERS POINT PLAZA, 47-40 21ST

STREET

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
 - Applications for Permit Renewals and Modifications
 - 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: 6NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3:

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



transfer of ownership.

Condition 4: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6NYCRR 621.13

Item 4.1:

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 4.2:

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 4.3:

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

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

Item 5.1:

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

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

Condition 6: Permit Modifications, Suspensions and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

Item 6.1:

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

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;



e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 7: Submission of application for permit modification or renewal-REGION 2 HEADQUARTERS

Applicable State Requirement: 6NYCRR 621.6(a)

Item 7.1:

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

Permit Effective Date:

Permit Expiration Date:



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 - Permit Modifications, Suspensions and Revocations by the Department

Facility Level

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

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6NYCRR 201-6.5(a)(7): Fees
- 3 6NYCRR 201-6.5(c): Recordkeeping and reporting of compliance monitoring
- 4 6NYCRR 201-6.5(c)(2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6NYCRR 201-6.5(c)(3)(ii): Compliance Certification
- 6 6NYCRR 201-6.5(e): Compliance Certification
- 7 6NYCRR 202-2.1: Compliance Certification
- 8 6NYCRR 202-2.5: Recordkeeping requirements
- 9 6NYCRR 215: Open Fires Prohibited at Industrial and Commercial Sites
- 10 6NYCRR 200.7: Maintenance of Equipment
- 11 6NYCRR 201-1.7: Recycling and Salvage
- 12 6NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6NYCRR 201-3.2(a): Exempt Sources - Proof of Eligibility
- 14 6NYCRR 201-3.3(a): Trivial Sources - Proof of Eligibility
- 15 6NYCRR 201-6.5(a)(4): Standard Requirement - Provide Information
- 16 6NYCRR 201-6.5(a)(8): General Condition - Right to Inspect
- 17 6NYCRR 201-6.5(d)(5): Standard Requirements - Progress Reports
- 18 6NYCRR 201-6.5(f)(6): Off Permit Changes
- 19 6NYCRR 202-1.1: Required Emissions Tests
- 20 6NYCRR 211.3: Visible Emissions Limited
- 21 40CFR 68: Accidental release provisions.
- 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6NYCRR 200.3: False statement
- 24 6NYCRR 201-6: Emission Unit Definition
- 25 6NYCRR 201-6.5(g): Non Applicable requirements
- 26 6NYCRR 201-7.2: Facility Permissible Emissions
- *27 6NYCRR 201-7.2: Capping Monitoring Condition
- *28 6NYCRR 201-7.2: Capping Monitoring Condition
- *29 6NYCRR 201-7.2: Capping Monitoring Condition
- *30 6NYCRR 201-7.2: Capping Monitoring Condition
- *31 6NYCRR 201-7.2: Capping Monitoring Condition
- *32 6NYCRR 201-7.2: Capping Monitoring Condition



- 33 6NYCRR 212.10(a)(1): Applicability of Reasonably Available Control Technology
- 34 6NYCRR 225.1(a)(3): Compliance Certification
- 35 6NYCRR 227-2: Compliance Certification
- 36 6NYCRR 227-2: Compliance Certification
- 37 6NYCRR 227-2.6(a)(7): Compliance Certification
- 38 6NYCRR 227-2.6(a)(7): Compliance Certification
- 39 40CFR 60.4206, NSPS Subpart IIII: Duration of emission standards for new stationary compression ignition IC engines
- 40 40CFR 60.4208, NSPS Subpart IIII: Stationary CI-IC Engines - Installation and importing deadlines for engines produced in the previous model year
- Emission Unit Level**
- 41 6NYCRR 201-6: Emission Point Definition By Emission Unit
- 42 6NYCRR 201-6: Process Definition By Emission Unit

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

- *43 6NYCRR 201-7.2: Capping Monitoring Condition
- *44 6NYCRR 201-7.2: Capping Monitoring Condition
- *45 6NYCRR 201-7.2: Capping Monitoring Condition
- 46 6NYCRR 227-2: Compliance Certification
- 47 6NYCRR 227-2.4(f)(2): Compliance Certification
- 48 6NYCRR 227-2.4(f)(2)(ii): Compliance Certification
- 49 6NYCRR 227-2.5(c): Compliance Certification
- 50 6NYCRR 227-2.6: Compliance Certification
- 51 6NYCRR 227-2.6(a)(2): Compliance Certification
- 52 6NYCRR 227-2.6(a)(7): Compliance Certification
- 53 6NYCRR 227-2.6(c): Compliance Certification
- 54 6NYCRR 227.2(b)(1): Compliance Certification

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

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

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

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

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

- 71 6NYCRR 227-1.3(a): Compliance Certification
- 72 6NYCRR 227-2.4(f)(2): Compliance Certification



- 73 6NYCRR 227-2.4(f)(2)(ii): Compliance Certification
- 74 6NYCRR 227-2.5(c): Compliance Certification
- 75 6NYCRR 227-2.6: Compliance Certification
- 76 6NYCRR 227-2.6(a)(2): Compliance Certification
- 77 6NYCRR 227-2.6(c): Compliance Certification
- 78 6NYCRR 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 6NYCRR 227-1.3(a): Compliance Certification
- 101 6NYCRR 227-2.4(f)(2): Compliance Certification
- 102 6NYCRR 227-2.4(f)(2)(ii): Compliance Certification
- 103 6NYCRR 227-2.5(c): Compliance Certification
- 104 6NYCRR 227-2.6: Compliance Certification
- 105 6NYCRR 227-2.6(a)(2): Compliance Certification
- 106 6NYCRR 227-2.6(c): Compliance Certification
- 107 6NYCRR 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 IIII: Compliance Certification
- 125 40CFR 60.4207(c), NSPS Subpart IIII: Compliance Certification
- 126 40CFR 60.4209(b), NSPS Subpart IIII: Compliance Certification
- 127 40CFR 60.4211(d)(2), NSPS Subpart IIII: Compliance Certification
- 128 40CFR 60.4212, NSPS Subpart IIII: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 129 ECL 19-0301: Contaminant List
- 130 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 131 6NYCRR 211.2: Air pollution prohibited

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 - 6NYCRR Part 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)

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



Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

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

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR Part 201-6.5(a)(5)

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

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

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

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



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

Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the



effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item L: Permit Exclusion - ECL 19-0305

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



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

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

**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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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 for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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.

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

**Condition 6: Compliance Certification
Effective for entire length of Permit**

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 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 202-2.5

Item 8.1:

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



Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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.



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

Condition 22: Recycling and Emissions Reduction
Effective for entire length of Permit

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 for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit

Applicable Federal Requirement:6NYCRR 201-6

Item 24.1:

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 five engine-generator sets in Emission Unit 2-00002. This emission unit consists of the following five engine-generators:

1. The Main Generator - maximum rated output at 6,000 bhp (9630 HP/6.5 megawatts) diesel is defined as Emission Source 00001 with corresponding Emission Point 00001. The Main Generator will be limited to 2,200 hours of operation per year.
2. 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.

3. 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 new 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. The following is information regarding the two new identical Cummins Plastics Recycle 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

This is not a fire engine.

The fuel oil storage tank is considered to be exempt according to 6 NYCRR 201-3.2(c)(21).

Building(s): GENERATOR

**Condition 25: Non Applicable requirements
Effective for entire length of Permit**

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 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 gm/bhp-hr	4
Two Plastics Recycle 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:

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

Proposed (Modified) Total maximum NOx emissions from the four generators = Main + Combined Cummins # 1 & # 2 + Combined Plastic Recycle # 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 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 for entire length of Permit

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

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



CAS No: 0NY210-00-0

PTE: 404,000 pounds per year

Name: OXIDES OF NITROGEN

**Condition 27: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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:

6NYCRR 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
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 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 set for the Plastics Recycling operations at the facility. The two 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 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 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 for the Plastics Recycle Generator:

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

The Maximum Rated Output from the two Plastics Recycle 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)

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

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: PROCESS MATERIAL THRUPTUT

Process Material: NUMBER 2 OIL

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

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

**Condition 28: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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:

6NYCRR 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.

Item 28.4:

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

Item 28.5:

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



ton/2,000 lbs = 23.27 tons/yr of NO_x 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 hours/year 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: 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.

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

**Condition 29: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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 the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6NYCRR 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 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 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 these equipments 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 hours x 47.9 gallons/hour = 419,604 gallons/year

The Maximum Rated Output from the Plastics Recycle 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 bhp x 4.0 gm/bhp-hr x 8,760 hrs/yr x 1 lb/454 gm x 1 ton/2000 lbs = 51.02 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

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.

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

**Condition 30: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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:

6NYCRR 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)

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

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: 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.

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

**Condition 31: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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:



6NYCRR 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:

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 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)

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

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):

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

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

**Condition 32: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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:

6NYCRR 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 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 new generator set (Emission Sources 0005D & 0005E 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 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 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 Recycle 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: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: PLASTICS RECYCLING GENERATORS # 1 & # 1- 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.

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

Condition 33: Applicability of Reasonably Available Control Technology Effective for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 for entire length of Permit

Applicable Federal Requirement:6NYCRR 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.
Subsequent reports are due every 6 calendar month(s).

Condition 35: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 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.
Subsequent reports are due every 12 calendar month(s).

**Condition 36: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 227-2

Item 36.1:

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

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



Regulated Contaminant(s):

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

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 Recycle 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 Recycle 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 Recycle Generators:

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

Work Practice Type: PROCESS MATERIAL THRUPT

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.

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



Condition 38: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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 1



Generator # 1, the results of the testing indicate that the Cummins # 1 Generator demonstrated average NOx 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 NOx emissions are calculated as:

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

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.

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

**Condition 39: Duration of emission standards for new stationary compression ignition IC engines
Effective for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

Applicable Federal Requirement:6NYCRR 201-6

Item 41.1:

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

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

**Condition 42: Process Definition By Emission Unit
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 201-6

Item 42.1:

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 five (5) engine-generator sets. A total of three (3) engine-generator units have been installed at the facility, the Main Generator (6.5 MW), the two identical 300 KW diesel Cummins Generators (Cummins # 1 & Cummins # 2) which are used as backups, one at Emission Point 0005B and the other at Emission Point 0005C; respectively. Each engine-generator unit operates at separate times, depending on the requirement for on-site electricity.

SimsMetal East LLC-Queens Plant is proposing to add another generator set for the Plastics Recycling operations at the facility that consists of two new identical generators (Emission Sources 0005D & 0005E). The new Generators Set proposed is a 1000 KW Peak Load Cummins Diesel Generators (Model DQFAD) 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 new generators set 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 combined 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. To offset the 2.03 tpy NOx emissions increase from the two



Cummins (Cummins # 1 & Cummins # 2), and the 51.02 tpy NO_x emissions increase from the two Plastics Recycling generators, the facility is proposing to reduce the allowable hours of operation from 3,050 to 2,200 hours/year for the Main generator, which amounts to 50.55 tpy of NO_x emission reduction.

The following is information regarding the two new identical Cummins Plastics Recycle 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.

The facility's total fuel consumption of # 2 fuel oil for the five generators is limited to 1,182,768 gallons/year. The Main Generator - maximum rated output at 6,000 bhp (9,630 HP, 6.5 megawatts) diesel at Emission Point 00001 is limited to operate 2,200 hours/year, its average fuel consumption is 301.5 gallons/hour and its annual fuel consumption is limited to 663,300 gallons. 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 new Plastics Recycle Generator maximum rated output at 1,322 bhp (750 KW) diesel at Emission Point 0005D is to operate up to 8,760 hours per year, its average fuel consumption is 47.9 gallons per hour and its annual fuel consumption is limited to 419,604 gallons.

As a result of this process change, the facility will reduce its annual NO_x emissions by about 49.59 tons.

Main Generator: 2,200 hrs x 301.5 gal/hr = 663,300 gal/yr

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 = 663,300 + 99,864 + 419,604 = 1,182,768 gal/yr

Emission Source/Control: 00001 - Combustion
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 43: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 201-7.2

Item 43.1:

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:

6NYCRR 231-2

Item 43.2:

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

Item 43.3:

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 43.4:

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 43.5:

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 43.6:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 00001
Emission Source: 00001

Regulated Contaminant(s):

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

Item 43.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant proposes to reduce the allowable hours of operation for the 9,630 HP (6.5 megawatts) Main Generator (Emission Source 00001 in Emission 2-00002) from 3,050 to 2,200 hours per year. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hours/year reduction is approximately 50.55 tons/year.

$$\text{NOx emissions} = 6,000 \text{ bhp} \times (3,050 - 2,200) \text{ hrs/yr} \times 9.0 \text{ gm/bhp-hr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 50.55 \text{ tons/yr decrease}$$

The diesel fuel use per hour is 301.5 gallons per hour, the Maximum rated Output from the Main Generator is 9,630 bhp, and is expected to emit 6.0 gm/bhp-hr of NOx emissions.

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

$$2,200 \text{ hours} \times 301.5 \text{ gallons/hour} = 663,300 \text{ gallons/year}$$

The Maximum Rated Output from the Main Generator (Emission Source 00001 in Emission 2-00002) is 6,000 bhp, therefore; the NOx emissions are calculated as:

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

$$6,000 \text{ bhp} \times 6.0 \text{ gm/bhp-hr} \times 2,200 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 87.23 \text{ tpy of NOx emissions}$$



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.

Work Practice Type: HOURS PER YEAR OPERATION

Manufacturer Name/Model Number: CEMS for MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL

Upper Permit Limit: 2,200 hours

Reference Test Method: CEMS

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 44: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 201-7.2

Item 44.1:

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:

6NYCRR 227-2

6NYCRR 231-2

Item 44.2:

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

Item 44.3:

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 44.4:

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 44.5:

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 44.6:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 00001
Emission Source: 00001

Regulated Contaminant(s):

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

Item 44.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant proposes to reduce the allowable hours of operation for the 9,630 HP (6.5 megawatts) Main Generator (Emission Source 00001 in Emission 2-00002) from 3,050 to 2,200 hours per year. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hours/year reduction is approximately 28.25 tons/year.

$$\text{NOx emissions} = 6,000 \text{ bhp} \times (3,050 - 2,200) \text{ hrs/yr} \times 9.0 \text{ gm/bhp-hr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 50.55 \text{ tons/yr decrease}$$

The diesel fuel use per hour is 301.5 gallons per hour, the Maximum rated Output from the Main Generator is 9,630 bhp, and is expected to emit 6.0 gm/bhp-hr of NOx emissions.

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

$$2,200 \text{ hours} \times 301.5 \text{ gallons/hour} = 663,300 \text{ gallons/year}$$

The Maximum Rated Output from the Main Generator (Emission Source 00001 in Emission 2-00002) is 9,630 bhp, therefore; the NOx emissions are calculated as:

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

$$6,000 \text{ bhp} \times 6.0 \text{ gm/bhp-hr} \times 2,200 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 87.23 \text{ tpy of NOx emissions}$$



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.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL ENGINE GENERATOR

Upper Permit Limit: 663,300 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.

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

**Condition 45: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 201-7.2

Item 45.1:

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:

6NYCRR 227-2

6NYCRR 231-2

Item 45.2:

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

Item 45.3:

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 45.4:

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 45.5:

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 45.6:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 00001
Emission Source: 00001

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

Item 45.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

SimsMetal East LLC-Queens Plant proposes to reduce the allowable hours of operation for the 9,630 HP (6.5 megawatts) Main Generator (Emission Source 00001 in Emission 2-00002) from 3,050 to 2,200 hours per year. The net reduction in NOx emissions (at 9.0 gm/bhp-hr) from the 850 hours/year reduction is approximately 50.55 tons/year.

$6,000 \text{ bhp} \times (3,050 - 2,200) \text{ hrs/yr} \times 9.0 \text{ gm/bhp-hr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2,000 \text{ lbs} = 50.55 \text{ tons/yr}$
decrease

The diesel fuel use per hour is 301.50 gallons per hour, the Maximum Rated Output from the Main Generator(9,630 bhp) is 6,000 HP, therefore the NOx emissions from the Main Generator (Emission source 00001 in Emission Unit 2-00002:

The diesel fuel use per hour is 301.5 gallons per hour, the Maximum rated Output from the Main Generator is 6,000 bhp, and is expected to emit 6.0 gm/bhp-hr of NOx emissions.

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

$2,200 \text{ hours} \times 301.5 \text{ gallons/hour} = 663,300 \text{ gallons/year}$

The Maximum Rated Output from the Main Generator (Emission Source 00001 in Emission Unit 2-00002 (9,630 bhp) is 6,000



HP, therefore the NO_x emissions are calculated as:

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

6,000 bhp x 6.0 gm/bhp-hr x 2,200 hrs/yr x 1 lb/454 gm x 1 ton/2000 lbs = 87.23 tpy of NO_x emissions

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.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL ENGINE GENERATOR

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 87.23 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.

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

**Condition 46: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 227-2

Item 46.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 00001

Process: 002

Emission Source: 00001

Regulated Contaminant(s):

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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, approximately 2.03 tons/year (at 9.0 gm/bhp-hr), and also to offset the 51.02 tpy NOx emissions increase from the two Plastics Recycling generators. A corresponding net reduction of 1.35 tons/year at 6.0 gm/bhp-hr for the two Cummins generators 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 Plastics Recycling Generators (Emission Source 0005D & 0005E) has a manufacturer's specification of 4.0 gm/bhp-hr.

Manufacturer Name/Model Number: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 47: Compliance Certification
Effective for entire length of Permit

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

Item 47.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002	Emission Point: 00001
Process: 002	Emission Source: 00001

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

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

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: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL ENGINE GENERATOR

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 48: Compliance Certification
Effective for entire length of Permit

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

Item 48.1:

The Compliance Certification activity will be performed for:



Emission Unit: 2-00002

Emission Point: 00001

Process: 002

Emission Source: 00001

Regulated Contaminant(s):

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

Item 48.2:

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 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 NOx 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 gm/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 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 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 Recycle 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 49: Compliance Certification
Effective for entire length of Permit

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

Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002 Emission Point: 00001
Process: 002 Emission Source: 00001

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

Item 49.2:

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 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 fuels control of NO_x emissions. Testing results indicate that the generators are achieving 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 NO_x emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastics Recycle 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 NO_x RACT requirements described elsewhere in this permit renewal, existing measures described in the NO_x RACT Compliance and Operating Plan for the site have reduced overall NO_x emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. 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 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: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL

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.

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

**Condition 50: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 227-2.6

Item 50.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Process: 002

Emission Point: 00001

Emission Source: 00001

Regulated Contaminant(s):

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

Item 50.2:

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, more than enough to offset the 510 hours (8,760 - 8,250 hrs) combined allowable increase in hours for the two Cummins generators, approximately 2.03 tons/year, and the 8,760 hours of operation of the two new identical Plastics Recycling Generators. A corresponding net reduction of 33.7 tons/year at 6.0 gm/bhp-hr for this Main generator 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: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL

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.

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

**Condition 51: Compliance Certification
Effective for entire length of Permit**

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

Item 51.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 00001

Process: 002

Emission Source: 00001

Regulated Contaminant(s):

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

Item 51.2:

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 MAIN GENERATOR - 9630 HP (6.5 megawatts) 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.

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

**Condition 52: Compliance Certification
Effective for entire length of Permit**

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

Item 52.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 00001

Process: 002

Emission Source: 00001

Regulated Contaminant(s):

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

Item 52.2:

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 Main Generator (Emission Source 00001 in Emission Unit 2-00002) at Emission Point 00001 is restricted to operating 2,200 hours per year. The diesel fuel use per hour is 301.5 gallons per hour, the Maximum Rated Output from the Main Generator is 6,000 bhp, and it is expected to emit a maximum of 6.0 gm/bhp-hr of NOx emissions. On January 18-20, 2005, during the latest NOx RACT emission stack test for the Main Generator, the results of the testing indicate that the Main Generator demonstrated



average NOx emissions value of 5.10 grams/bhp-hr.

The Maximum Rated Output from the Main Generator (Emission Source 00001 in Emission Unit 2-00002) is 6,000 bhp, therefore the NOx emissions are calculated as:

$$6,000 \text{ bhp} \times 6.0 \text{ gm/bhp-hr} \times 2,200 \text{ hrs/yr} \times 1 \text{ lb}/454 \text{ gm} \times 1 \text{ ton}/2000 \text{ lbs} = 87.23 \text{ tpy of NOx emissions}$$

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

$$2,200 \text{ hours} \times 301.5 \text{ gallons/hour} = 663,300 \text{ gallons/year}$$

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL

Upper Permit Limit: 663,300 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 53: Compliance Certification
Effective for entire length of Permit**

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

Item 53.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 00001

Process: 002

Emission Source: 00001

Regulated Contaminant(s):

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

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition is for the 9,630 HP (6.5 megawatts) Main Generator engine (Emission Source 00001 at Emission Point 00001 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 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 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.

As per 6 NYCRR 227-2.6 NO_x 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 NO_x RACT Compliance and Operating Plan for the site have reduced overall NO_x emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. 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 more than offsets the proposed increase associated with the increase in the hours of operation for the two Cummins generators and the 8,760 hours of operation for the two Plastics Recycling Generators.

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 fuels 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.

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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: MAIN GENERATOR - 9630 HP (6.5 megawatts) 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 54: Compliance Certification
Effective for entire length of Permit**

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

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002

Emission Point: 00001

Process: 002

Emission Source: 00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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.

Manufacturer Name/Model Number: MAIN GENERATOR - 9630 HP (6.5 megawatts) DIESEL ENGINE GENERATOR

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.

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

Condition 55: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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.

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

**Condition 56: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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.

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

**Condition 57: Compliance Certification
Effective for entire length of Permit**

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

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005B
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 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 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 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 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 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 Recycle 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 for entire length of Permit**

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

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005B
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 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 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 fuels 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 new Plastics Recycle 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.

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

**Condition 59: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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 NO_x 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.

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

Condition 60: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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 NOx 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.

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

**Condition 61: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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 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 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 NO_x 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 NO_x RACT Compliance and Operating Plan for the site have reduced overall NO_x emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. 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 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 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 fuels 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 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 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 for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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.

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

**Condition 63: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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.

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

**Condition 64: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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.

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

**Condition 65: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6NYCRR 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 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 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 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 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 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 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 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 Recycle 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 for entire length of Permit

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

Item 66.1:

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: 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 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 Recycle 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.

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

**Condition 67: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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.
Subsequent reports are due every 3 calendar month(s).

Condition 68: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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 NO_x 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.
Subsequent reports are due every 3 calendar month(s).

Condition 69: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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 NO_x 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 NO_x RACT Compliance and Operating Plan for the site have reduced overall NO_x emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. 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 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 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 fuels 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 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 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 for entire length of Permit



Applicable Federal Requirement: 6NYCRR 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.

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

Condition 71: Compliance Certification



Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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.

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

Condition 72: Compliance Certification
Effective for entire length of Permit

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

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 Recycle 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.

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

**Condition 73: Compliance Certification
Effective for entire length of Permit**

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

Item 73.1:

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: 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 Recycle 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 Recycle 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 for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 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 fuels 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 NO_x emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastics Recycle 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 NO_x RACT requirements described elsewhere in this permit renewal, existing measures described in the NO_x RACT Compliance and Operating Plan for the site have reduced overall NO_x emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. 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 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.

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

Condition 75: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 Plastic Recycle 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 Recycle 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 Recycle 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 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.

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

**Condition 76: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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.

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

**Condition 77: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6NYCRR 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 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 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 Recycle 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 for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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

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.

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

**Condition 79: EPA Region 2 address.
Effective for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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

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 for entire length of Permit**

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 for entire length of Permit**

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):
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 Recycle #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.

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

**Condition 86: Compliance Certification
Effective for entire length of Permit**

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 III CO emission limitation of 3.5 g/KW-hr (equivalent to 2.6 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 CO emission from Emission Sources 0005D & 0005E is as follows:

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

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #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.

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

Condition 87: Compliance Certification
Effective for entire length of Permit

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
Process: 002

Emission Point: 0005D
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. 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.

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

Condition 88: Compliance Certification
Effective for entire length of Permit

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

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 Recycle 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) 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.

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

Condition 89: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4207, NSPS Subpart III

Item 89.1:

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: 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:

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 Recycle #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.

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

Condition 90: Compliance Certification
Effective for entire length of Permit

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

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 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(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.

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



Condition 91: Compliance Certification
Effective for entire length of Permit

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

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005D
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 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 #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.

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

Condition 92: Compliance Certification
Effective for entire length of Permit

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

Item 92.1:



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

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.

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

**Condition 94: Compliance Certification
Effective for entire length of Permit**

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

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 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(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.

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

Condition 95: Compliance Certification
Effective for entire length of Permit

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

Emission Point: 0005D

Process: 002

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

Condition 96: Compliance Certification
Effective for entire length of Permit

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

Condition 97: Compliance Certification
Effective for entire length of Permit

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

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005D
Emission Source: 0005D

Item 97.2:

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.

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

Condition 98: Compliance Certification
Effective for entire length of Permit

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

Item 98.1:

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: 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 for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.4212, NSPS Subpart III

Item 99.1:

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: 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.

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

Condition 100: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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:



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 Recycle 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.

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

Condition 102: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 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 Plastics Recycle 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 Recycle 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 #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 for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 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 fuels 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 NO_x emission limit of 4.0 grams per brake horsepower-hour should be granted for the two new identical Plastics Recycle 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 NO_x RACT requirements described elsewhere in this permit renewal, existing measures described in the NO_x RACT Compliance and Operating Plan for the site have reduced overall NO_x emissions from the former allowable 9.0 gm/bhp-hr in 2000 to below 6.0 gm/bhp-hr in 2005. 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 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 #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.

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



Condition 104: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6NYCRR 227-2.6

Item 104.1:

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 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 Recycle 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 Recycle 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 Recycle 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



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 #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.

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

Condition 105: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6NYCRR 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 NO_x emission rate.

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #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.

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

**Condition 106: Compliance Certification
Effective for entire length of Permit**

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

Item 106.1:

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 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 Plastics 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 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 # 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 Recycle 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 #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 for entire length of Permit**

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

Item 107.1:

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: 0NY075-00-0 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.

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

**Condition 108: EPA Region 2 address.
Effective for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 110.1:

This Condition applies to Emission Unit: 2-00002 Emission Point: 0005E
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 for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.4200, NSPS Subpart III

Item 114.1:

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: 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 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:

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

Manufacturer Name/Model Number: CUMMINS Plastics Recycle #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.

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

**Condition 115: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.4200, NSPS Subpart III

Item 115.1:

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: 0NY075-00-5 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



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.

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

**Condition 117: Compliance Certification
Effective for entire length of Permit**

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 Recycle 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) 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.

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

Condition 118: Compliance Certification
Effective for entire length of Permit

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 Recycle #2,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.

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

Condition 119: Compliance Certification
Effective for entire length of Permit

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 120: Compliance Certification
Effective for entire length of Permit**

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.

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

**Condition 121: Compliance Certification
Effective for entire length of Permit**

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

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 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.

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

**Condition 122: Compliance Certification
Effective for entire length of Permit**

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

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

Condition 123: Compliance Certification
Effective for entire length of Permit

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

Item 123.1:

The Compliance Certification activity will be performed for:

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

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 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(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.

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

Condition 124: Compliance Certification
Effective for entire length of Permit

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

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005E
Emission Source: 0005E

Item 124.2:

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 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.

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

Condition 125: Compliance Certification



Effective for entire length of Permit

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
Process: 002

Emission Point: 0005E
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.

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

**Condition 126: Compliance Certification
Effective for entire length of Permit**

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

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-00002
Process: 002

Emission Point: 0005E
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.

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

Condition 127: Compliance Certification
Effective for entire length of Permit

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 for entire length of Permit



Applicable Federal Requirement: 40CFR 60.4212, NSPS Subpart IIII

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:

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.

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 for entire length of Permit**

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: 0NY210-00-0



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 131: Air pollution prohibited
Effective for entire length of Permit

Applicable State Requirement: 6NYCRR 211.2

Item 131.1:

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.

New York State Department of Environmental Conservation

Permit ID: 2-6304-00268/00015

Facility DEC ID: 2630400268

