

New York State Department of Environmental Conservation
Facility DEC ID: 9062200003



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-0622-00003/00071
Effective Date: 04/24/2001 Expiration Date: 04/24/2006

Permit Issued To: CUMMINS ENGINE CO INC
4720 BAKER ST EXT
LAKEWOOD, NY 14750-9762

Facility: CUMMINS ENGINE-JAMESTOWN PLANT
4720 BAKER ST EXT
LAKEWOOD, NY 14750

Contact: ROBERT J. LANNON
4720 BAKER STREET EXTENSION
LAKEWOOD, NY 14750-9766
(716) 456-2929

Description:

The Cummins Jamestown Engine Plant, with applicable SIC Code 3519 - Internal Combustion Engines, Not Elsewhere Classified, manufactures, assembles, and paints diesel engines. The facility also machines cams for engines that are assembled elsewhere. The facility is located at 4720 Baker Street Extension in the City of Lakewood, Chautauqua County. The plant consists of a main manufacturing building, a small wastewater treatment support building, and several small auxiliary buildings. The plant includes various dry and wet machining, fabricating, and washing operations for the diesel engine parts. The engine parts are assembled into the complete engines at the plant. The engines are painted at the plant following final assembly. The plant also contains an engine test facility, a boiler plant, and a wastewater treatment plant.

The current permit action is the issuance of a Title V Air Facility Permit for an existing facility which holds emission point Certificates to Operate for non-exempt emission points and an Air State Facility Permit which governed a recent modification to the 2-PAINT emission unit. The facility is a major source under Title V of the 1990 Clean Air Act Amendments (CAAA). Its actual emissions of oxides of nitrogen (NOx), due primarily to combustion of diesel fuel in the engine test cells, are greater than the major facility threshold value of 100 tons per year (tpy). Actual PM emissions are controlled with filters and are less than one-half of the major threshold for PM. As part of this permit action the facility is accepting a cap on sulfur dioxide emissions to limit them below the federal Prevention of Significant Deterioration (PSD- 40 CFR 52) major facility threshold of 250 tons/year. The facility is also has emissions of volatile organic compounds (VOC) exceeding 50 tpy, which is the major facility threshold and the applicability threshold of the Reasonably Available Control Technology (RACT) requirements for VOC as specified in 6NYCRR Part 212 for process sources. This permit requires the facility to complete a source specific VOC RACT analysis and install RACT where determined necessary.

Facility operations are organized into six emission units, as follows:

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1-ENGTC: Engine test cells for research and production testing and two diesel storage tanks which provide fuel for testing. The engine test cells are required to meet the NO_x Reasonably Available Control Technology (RACT) emission limits under 6NYCRR Subpart 227-2. Internal combustion research and production engines ranging up to 700 brake horsepower (bhp) are tested for performance under load. The facility is required to keep certain records that demonstrate that these engines meet the RACT limit of 9.0 grams/bhp-hr. Due to increasingly restrictive NO_x emission limits for over-the-road diesel engines (current engines already are well below the RACT limit), over the next few years it is anticipated that NO_x emissions from the test cells will decrease. The facility is also required to monitor each stack periodically during testing to assure emissions do not exceed the 20% opacity limit. For each of its oil storage tanks, the facility is required to keep dimensions and capacity records under the Federal New Source Performance Standard 40 CFR 60 Subpart Kb.

This emission unit also contains operational flexibility provisions under 6NYCRR 201-6.5(f) which cover modification or addition of new test cells. The provisions include procedures which will assure compliance with all applicable requirements and permit modifications as determined necessary.

2-PAINT: Applies paint to diesel engines manufactured at the plant. The surface coating operations are required to meet RACT VOC content limits under 6 NYCRR Part 228 Table 2. To demonstrate compliance with these limits the facility is required to keep paint manufacturer certifications of VOC content for all surface coatings in use. The facility is also required to conduct annual VOC content testing of two high use coatings. In order to monitor for particulates the facility is required to inspect each spray booth monthly and take corrective action as necessary. Also, the facility is required to do a weekly visible emission observation of each emission point. Where visible emissions are observed corrective action is required according to the facility's maintenance procedures.

VOC emissions from the 2-PAINT emission unit were capped at 47.9 tons/year in the previously issued Air State Facility Permit so that the VOC emissions increase from the use of higher VOC content surface coatings would stay below the 40 tpy significant source project applicability threshold of 6NYCRR 231-2, New Source Review. Emission caps on xylene and 2-butoxy-ethanol emissions from 2-PAINT (10 tpy each) which were also taken as part of the modification to the paint system emission unit are being continued as part of this permit action. This cap keeps the hazardous air pollutant (HAP) emissions of the paint system emission unit below the 10 tpy major source threshold for National Emission Standards for Hazardous Air Pollutants (NESHAPS) applicability.

This emission unit also contains operational flexibility provisions under 6NYCRR 201-6.5(f) which establish procedures for changing coating formulations.

3-MANUF: Includes various machining, grinding, cleaning, and heat treating operations for diesel engine parts. Several collectors for dust and oil mists are part of this emission unit. This emission unit contains operational flexibility provisions under 6NYCRR 201-6.5(f) which establish procedures for using different cooling/cutting oils than those currently being used. The permit also includes operational flexibility provisions for adding, modifying, removing, replacing, or relocating machinery used to manufacture parts.

The facility is required to inspect and monitor visible emissions from each process source on a weekly basis for compliance with the 0.05 gr/scf particulate limit and the 20% opacity limit. It is also required to take corrective action where problems are discovered. The facility must log inspection and corrective

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actions and report the results to the department.

4-WASTE: Wastewater treatment operations. There are no periodic monitoring requirements in the permit for this emission unit.

5-HEATG: Includes all heating and steam generation at the facility. Primary emission points are three boilers each with a maximum heat input rating of 25.11 MM Btu/hr. These boilers are subject to the small boiler tune up and record keeping provisions of 6 NYCRR Part 227-2, NO_x RACT. When firing oil instead of natural gas, the facility must perform a daily stack observation for visible emissions. If visible emissions are observed an EPA Method 9 opacity observation is required. Any exceedance of the 20% opacity limit under Method 9 must be reported to the department and corrective action taken.

6-REFRG: Includes refrigeration equipment which utilize ozone-depleting chemicals. There are no periodic monitoring requirements in the permit for this emission unit, although the facility must meet the requirements of 40 CFR 82 Subpart F for recycling and emissions reduction.

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: DAVID S. DENK
 270 MICHIGAN AVE
 BUFFALO, NY 14203-2999

Authorized Signature: _____ Date: ___ / ___ / _____



Notification of Other 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, agents, and assigns for all claims, suits, actions, damages, and costs of every name and description, arising out of or resulting from the permittee's undertaking of activities or operation and maintenance of the facility or facilities authorized by the permit in compliance or non-compliance with the terms and conditions of the permit.

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 and Modifications

Permit Modifications, Suspensions, and Revocations by the Department

Facility Level

Submission of Applications for Permit Modification or Renewal -REGION 9
HEADQUARTERS



DEC GENERAL CONDITIONS

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

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 and Modifications
Applicable State Requirement: 6NYCRR 621.13(a)

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.

Condition 4: Permit Modifications, Suspensions, and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for

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modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

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

Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 9 HEADQUARTERS
Applicable State Requirement: 6NYCRR 621.5(a)

p0Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2999
(716) 851-7165



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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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(716) 456-2929

Authorized Activity By Standard Industrial Classification Code:
3519 - INTERNAL COMBUSTION ENGINES

Permit Effective Date: 04/24/2001

Permit Expiration Date: 04/24/2006



LIST OF CONDITIONS

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- 33 RACT Applicability for Major Facilities
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- 52 Compliance Certification (EU=1-ENGTC)
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- 66 Monitoring of operations.
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- 87 coating lines for miscellaneous metal parts and products,
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temperature up to 90 degrees Celsius
- 88 Compliance Certification (EU=3-MANUF)
- 89 Emissions from new emission sources and/or modifications
- 90 Emissions from new emission sources and/or modifications
not specified by Table 2
- 91 Compliance Certification (EU=3-MANUF)
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- 94 Emissions from new emission sources and/or modifications
- 95 Emissions from new emission sources and/or modifications
not specified by Table 2
- 96 Compliance Certification (EU=5-HEATG)
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FEDERALLY ENFORCEABLE CONDITIONS

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

Condition 1: Definitions Applicable To This Permit
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 200.1

Item 1.1:

The definitions found in Parts 200 and 201 apply throughout this permit. Specific definitions used in this permit and their meanings include:

1. "Act" refers to the Federal Clean Air Act, 42 U.S.C. Section 7401, et seq., as amended by Public Law 101-549, November 15, 1990.
2. "Administrator" refers to the Administrator of the United States Environmental Protection Agency or designee.
3. "Department" refers to the New York State Department of Environmental Conservation.

Condition 2: Sealing
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 200.5

Item 2.1:

(a) The commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the commissioner issued in the case of the violation. Sealing means labelling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

(b) No person shall operate any air contamination source sealed by the commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

(c) Unless authorized by the commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section

Condition 3: Acceptable ambient air quality
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 200.6

Item 3.1:



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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 4: Maintenance of equipment
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 200.7

Item 4.1:

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

Condition 5: Unpermitted Emission Sources
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-1.2

Item 5.1:

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Condition 6: Unavoidable Noncompliance and Violations
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-1.4

Item 6.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

- (a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's



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representative when requested to do so in writing or when so required by a condition of a permit or certificate issued for the corresponding air contamination source. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

Condition 7: Emergency Defense
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-1.5

Item 7.1:

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



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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.

Condition 8: Recycling and Salvage
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-1.7

Item 8.1:

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Condition 9: Prohibition of Reintroduction of Collected Contaminants to the Air
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-1.8

Item 9.1:

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 10: Public Access to Recordkeeping for Title V facilities
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-1.10(b)

Item 10.1:

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.

Condition 11: Proof of Eligibility
Effective between the dates of 04/24/2001 and 04/24/2006

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

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Item 11.1:

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 6 NYCRR Subpart 201-3. 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 6 NYCRR Subpart 201-3, 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 12: Proof of Eligibility

Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 12.1:

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. 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 6 NYCRR Subpart 201-3, 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 13: Applicable Criteria, Limits, Terms, Conditions and Standards

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 13.1:

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

- i. Any reporting requirements and operations under an accidental release plan, response plan, and compliance plan as approved as of the date of the permit issuance, or
- ii. Any support documents submitted as a part of the permit application for this facility as accepted and approved as of the date of permit issuance.

Any noncompliance with the federally-enforceable portions of this permit constitutes a violation of the federal Clean Air Act and will be grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

Item 13.2:

Any document, including reports, required by the federally-enforceable portions of this permit shall contain a certification by the responsible official for this facility as set forth in Section 201-6.3 that based



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on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

**Condition 14: Cessation or Reduction of Permitted Activity Not a Defense
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 201-6.

Item 14.1:

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.

**Condition 15: Compliance Requirements
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 201-6.

Item 15.1:

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 the responsible official, consistent with Section 201-6.3 of Part 201.

Item 15.2:

The permittee shall comply with the approved compliance schedule for this permit if such a schedule is a part of this permit. Risk management plans must be submitted to the Administrator if required by Section 112(r) of the Clean Air Act for this facility.

Item 15.3:

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:



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- 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 16: Federally-Enforceable Requirements
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 16.1:

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.

Condition 17: Fees
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 17.1:

The permittee shall pay the required fees associated with this permit.

Condition 18: Monitoring, Related Recordkeeping and Reporting Requirements
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 18.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, 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 19: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.



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Item 19.1:

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 relieve the permittee from the requirement to comply with any condition contained in this permit.

The permittee 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. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Condition 20: Permit Shield

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 20.1:

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield. For those facilities for which a permit shield has been granted, 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.

Condition 21: Property Rights

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.



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Item 21.1:

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

Condition 22: Reopening for Cause

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 22.1:

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.

Item 22.2:

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.

Item 22.3:

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.

Condition 23: Right to Inspect

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 23.1:

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity



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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 facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 24: Severability

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 24.1:

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.

Condition 25: Emission Unit Definition

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 25.1:

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

Emission Unit: 1-ENGTC

Emission Unit Description:

THIS EMISSION UNIT ENCOMPASSES THE EMISSIONS OF COMBUSTION PRODUCTS FROM THE DIESEL ENGINES TESTED IN TEST CELLS AT THE FACILITY. THIS EMISSION UNIT INCLUDES 16 NON-EXEMPT EMISSION POINTS AND THREE PROCESSES: RESEARCH ENGINE TEST CELLS (E01, INCLUDING EMISSION SOURCES TC001 THROUGH TC006 PLUS TC008 AND CORRESPONDING EMISSION POINTS 00101 THROUGH 00106 PLUS 00108), PRODUCTION TEST CELLS (E02, INCLUDING EMISSION SOURCES TC010 THROUGH TC016, CORRESPONDING AFTERBURNERS JF010 THROUGH JF016, AND CORRESPONDING EMISSION POINTS 00110 THROUGH 00116)), AND DIESEL STORAGE (E03, INCLUDING EMISSION SOURCES TK002 AND TK003 AND CORRESPONDING EMISSION POINTS 00208 AND 00209). JOHNSON FLARES WERE ADDED TO THE STACKS FROM PRODUCTION ENGINE TEST CELLS TC010 THROUGH TC016 TO

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CONTROL SPORADIC SMOKE EMISSIONS FROM
EMISSION POINTS 00110 THROUGH 00116.

PREVIOUSLY PERMITTED TEST CELLS TC007 AND
TC009 (EMISSION POINTS 00107 AND 00109), AS
WELL AS THE CAM TRAILER AND COLD START TEST
CELL, ARE EXEMPT UNDER 6NYCRR
201-3.2(C)(43) AS RESEARCH AND DEVELOPMENT
ACTIVITIES.

Building(s): MAIN

Item 25.2:

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

Emission Unit: 2-PAINT

Emission Unit Description:

THE CURRENT PAINT SYSTEM AT THE CUMMINS
JAMESTOWN ENGINE PLANT (JEP), INSTALLED IN
1997 UNDER THE PROVISIONS OF ASF PERMIT
#9-0622-00003/00067, INCLUDES ONE LARGE
MAIN PAINT SPRAY BOOTH, A SMALL MANUAL
PAINT SPRAY BOOTH, TWO PAINT DRY OVENS AND
A FLASH TUNNEL. THE EMISSION UNIT INCLUDES
FOUR EMISSION POINTS: ONE FOR EACH DRYING
OVEN, ONE FOR THE PAINT BOOTHS, AND ONE FOR
THE FLASH TUNNEL. THE PAINT SYSTEM IS USED
TO APPLY PAINT TO DIESEL ENGINES
MANUFACTURED AT THE PLANT. THIS EMISSION
UNIT HAS A PTE OF GREATER THAN 10 TPY VOC
AND IS DESCRIBED IN TABLE 1 OF 6NYCRR PART
228; THEREFORE, IT IS SUBJECT TO THE VOC
RACT LIMITATIONS OF THAT REGULATION. WHEN
THE CURRENT PAINT SYSTEM WAS INSTALLED THE
EMISSION UNIT WAS CAPPED AT 47.9 TPY VOC TO
MAINTAIN PROJECT PTE AT LESS THAN THE 40
TPY APPLICABILITY THRESHOLD OF 6NYCRR PART
231-2.

Building(s): MAIN

Item 25.3:

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

Emission Unit: 3-MANUF

Emission Unit Description:

THIS EMISSION UNIT INCLUDES EMISSION
SOURCES ASSOCIATED WITH THE MANUFACTURING
LINES AT THE PLANT. THE ACTIVITIES
INCLUDED IN THIS EMISSION UNIT ARE WET AND



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DRY MACHINING, GRINDING, CLEANING, AND HEAT TREATING OPERATIONS OF PRIMARILY, BUT NOT LIMITED TO, CAST IRON, STEEL AND ALUMINUM DIESEL ENGINE PARTS. THE NINE PROCESSES WHICH DIRECTLY DISCHARGE TO THE ENVIRONMENT THROUGH EMISSION POINTS ARE DEFINED ACCORDING TO MANUFACTURING LINES: 312 - CAMBOX MANUFACTURING; 318 - FLYWHEEL MANUFACTURING LINE; 501 - ROD LINE MANUFACTURING LINE; 503 - BLOCK LINE MANUFACTURING LINE; 511 - CAMSHAFT MANUFACTURING LINE; 514 - CRANKSHAFT MANUFACTURING LINE; 515 - HEAD LINE MANUFACTURING LINE; 571 - AHD CAMLINE MANUFACTURING LINE; M01 - MISCELLANEOUS MACHINE WASHERS.

Building(s): MAIN

Item 25.4:

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

Emission Unit: 4-WASTE

Emission Unit Description:

THIS EMISSION UNIT INCLUDES WASTE WATER PRE-TREATMENT OPERATIONS AT THE PLANT. AN ULTRAFILTRATION WASTE TREATMENT PROCESS (EMISSION SOURCE PR010) VENTS THROUGH A SOIL BIOFILTER (ES FL016/EP00201) FOR ODOR CONTROL. TWO AERATION TANKS (ES TK001) WHICH DISCHARGE DIRECTLY TO THE ENVIRONMENT ARE ALSO INCLUDED.

Building(s): MAIN
WTB

Item 25.5:

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

Emission Unit: 5-HEATG

Emission Unit Description:

THIS EMISSION UNIT IS A FACILITY-WIDE ACTIVITY INCORPORATING ALL HEATING AND STEAM GENERATION AT THE FACILITY. THE PRIMARY EMISSION POINTS ARE THREE NATURAL GAS-FIRED BOILERS (ES BR001/EP00001, ES BR002/EP00003, AND ES BR003/EP00004), EACH RATED AT 25.11 MMBtu/HR. THESE UNITS ARE PRIMARILY FIRED ON NATURAL GAS BUT ALSO HAVE CAPABILITY TO BURN NO. 2 FUEL OIL.



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THE FACILITY ALSO HAS SEVERAL NATURAL GAS FIRED HEATING UNITS, ALL RATED AT LESS THAN 10 MMBtu/HR. BECAUSE THE FACILITY EMISSIONS OF NOX ARE GREATER THAN THE 100 TPY THRESHOLD, THE BOILERS ARE SUBJECT TO THE SMALL BOILER REQUIREMENTS OF 6NYCRR 227-2 NOX RACT.

Building(s): MAIN

Item 25.6:

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

Emission Unit: 6-REFRG

Emission Unit Description:

THIS EMISSION UNIT INCLUDES REFRIGERATION EQUIPMENT WHICH UTILIZE OZONE-DEPLETING CHEMICALS (E.G. CFCS AND HCFCs). THIS EQUIPMENT IS SELF-CONTAINED. FUGITIVE EMISSIONS ARE DIRECTED TO NO SPECIFIC EMISSION POINTS. CURRENTLY, APPROXIMATELY FIFTY PIECES OF EQUIPMENT HOLD CHARGES GREATER THAN 3 LBS. REFRIGERANTS INCLUDE R-12, R-22, R-134A, AND/OR OTHER CFC's AND HCFC's. THE NUMBER OF REFRIGERANT UNITS AND THE REFRIGERANTS USED ARE NOT REGULATED BY THIS PERMIT.

Building(s): MAIN

Condition 27: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 27.1:

The Compliance Certification activity will be performed for the Facility.

Item 27.2:

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

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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.

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 YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 26: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 26.1:
The Compliance Certification activity will be performed for the Facility.

Item 26.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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Compliance certifications shall contain the following information:

- 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.

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.

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:

270 Michigan Avenue
Buffalo, NY 14203-2999

The address for the BCME is as follows:

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NYSDEC
Bureau of Compliance Monitoring
and Enforcement
50 Wolf Road
Albany, NY 12233-3258

Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 28: Permit Exclusion Provisions
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 28.1:

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 currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant 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), and particularly any such enforcement action as may be authorized pursuant to 6 NYCRR 201-1.2 and 6 NYCRR 201-6.5(g).

The issuance of this permit by the Department and the receipt thereof by the Applicant does not supercede, revoke or rescind an order or modification thereof on consent or determination by the Commissioner issued heretofore by the Department or any of the terms, conditions or requirements contained in such order or modification thereof unless specifically intended by this permit.

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 the right of the Department to bring any future action, or pursue any pending action, either administrative or judicial, to required remediation, contribution for costs incurred or funds expended, for any violations, past, present or future, known or unknown, of applicable federal law, the ECL, or the rules and regulations promulgated thereunder, or conditions contained in any other licenses or permits issued to the Applicant and not addressed in this permit.

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 the right of the Department to pursue any claims for natural resource damages against the Applicant.

Condition 29: Required emissions tests
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 29.1:



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An acceptable report of measured emissions shall be submitted, as may be required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the commissioner within the time stated shall be sufficient reason for the commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Condition 30: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 202-2.1

Item 30.1:

The Compliance Certification activity will be performed for the Facility.

Item 30.2:

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 YEAR)

Reports due by April 15th for previous calendar year

Condition 31: Recordkeeping requirements
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 202-2.5

Item 31.1:

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

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

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

Condition 32: Visible emissions limited.
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 211.3



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Item 32.1:

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

Condition 33: RACT Applicability for Major Facilities
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 212.10(e)

Item 33.1:

All process sources applicable to 6 NYCRR Part 212.10 after May 31, 1995 will remain subject to all provisions of that section even if the facility's annual potential to emit of nitrogen oxides or volatile organic emissions falls below the applicability thresholds.

Condition 34: Open Fires Prohibited at Industrial and Commercial Sites
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 215.

Item 34.1:

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

Condition 35: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any distillate oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry. Supplier certifications may be used to satisfy the requirement for sulfur content data as long as sampling, compositing and analysis of fuel samples are done in accordance with methods acceptable to the commissioner. Sampling and



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analysis of delivered fuel by the facility may be requested at the discretion of Department representatives.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Limit of Monitoring: 1.5 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 YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 36: Equipment Specifications for Cold Cleaning Batch Degreasing
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 226.

Item 36.1:

A. Equipment specifications:

1. A cover shall be provided which can be operated easily.
2. The drainage facility shall be internal (under cover), if practical.
3. A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.7, or a water cover where the solvent is insoluble in and heavier than water, where the solvent being used has a vapor pressure greater than 33mm Hg at 38°C (100°F) or where the solvent is heated above 50°C (120°F)

B. Operating requirements:

1. Clean parts shall be drained at least 15 seconds or until dripping ceases.

C. General requirements:

No person shall conduct solvent metal cleaning unless:

1. Solvent is stored in covered containers and waste solvent is transferred or disposed of in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere.
2. Equipment used in solvent metal cleaning is maintained to minimize leaks and fugitive emissions.
3. Equipment used in solvent metal cleaning displays a conspicuous summary of proper operating procedures consistent with minimizing emissions of volatile organic compounds.
4. Equipment covers are closed when the solvent metal cleaning unit is not in service.
5. A record of solvent consumption shall be maintained for each year and made available to the commissioner or his representative upon request.



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Condition 37: Compliance must be demonstrated upon start up
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.1(d)(4)

Item 37.1:

Any owner or operator of a facility involving a coating line described in table 1 or table 2 of 6 NYCRR Part 228.8 which is constructed after March 1, 1993 and which meets the applicability criteria established in 6 NYCRR Part 228.1 (d)(3), must demonstrate compliance with 6 NYCRR Part 228 upon start up.

Condition 38: Once in, always in
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.1(g)

Item 38.1:

Any coating line subject to the provisions of this Part, will remain subject to these provisions even if the facility annual potential to emit VOC later falls below applicability criteria.

Condition 39: Applicability and Compliance: Exemptions
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.1(h)

Item 39.1:

Part 228 does not apply to the following coatings: Coatings which are applied manually with a brush, roller or aerosol spray can.

Condition 40: Storage and disposal of cloth or paper impregnated with VOC
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.10(a)

Item 40.1:

No owner or operator of a facility subject to 6NYCRR Part 228 shall use open containers to store or dispose of cloth or paper impregnated with VOC and/or solvents that are used for surface preparation, cleanup or coating removal.

Condition 41: Storage of spent or fresh VOC
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.10(b)

Item 41.1:

No owner or operator of a facility subject to 6NYCRR Part 228 shall store in open containers spent or fresh VOC and/or solvents to be used for surface preparation, cleanup or coating removal.



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Condition 42: Spray equipment cleanup
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.10(c)

Item 42.1:

No owner or operator of a facility subject to 6NYCRR Part 228 shall use VOC and/or solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize their evaporation to the atmosphere.

Condition 43: Requirements for storing and dispensing of surface coatings and inks
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.10(d)

Item 43.1:

No owner or operator of a facility subject to 6NYCRR Part 228 shall use open containers to store or dispense surface coatings and/or inks unless production, sampling, maintenance or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purpose of applying a coating material to a substrate.

Condition 44: Storage and disposal of spent surface coatings, VOCs, and solvents
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.10(e)

Item 44.1:

No owner or operator of a facility subject to 6NYCRR Part 228 shall use open containers to store or dispose of spent surface coatings, spent VOCs and/or solvents.

Condition 45: Facility Permissible Emissions
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 45.1:

The sum of emissions from the emission units specified in this permit shall not exceed the following Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 007446-09-5

PTE: 490,000 pounds per year

Name: SULFUR DIOXIDE

Condition 46: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 46.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

Item 46.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

SULFUR DIOXIDE EMISSIONS FROM THIS FACILITY WILL NOT EXCEED 250 TONS/YEAR IN ANY CONSECUTIVE ROLLING 12 MONTH PERIOD SO THAT EMISSIONS OF THIS CONTAMINANT WILL REMAIN BELOW THE APPLICABILITY THRESHOLD OF 40 CFR 52 (PREVENTION OF SIGNIFICANT DETERIORATION). COMPLIANCE WITH THIS EMISSION CAP LIMIT SHALL BE DEMONSTRATED BY MAINTAINING MONTHLY RECORDS OF THE AMOUNT OF ALL FUELS FIRED AND CORRESPONDING SULFUR DIOXIDE EMISSIONS, BASED ON DEPARTMENT-APPROVED EMISSION FACTORS. AT THE BEGINNING OF EACH MONTH, THE FACILITY SHALL CALCULATE TOTAL SULFUR DIOXIDE EMISSIONS FOR THE PREVIOUS MONTH AND TOTAL SULFUR DIOXIDE EMISSIONS FOR THE PREVIOUS CONSECUTIVE 12 MONTH PERIOD.

AS PER 6NYCRR 201-7.2(E), ON AN ANNUAL BASIS, 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 THE EMISSION UNIT 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 EMISSION LIMIT.

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY



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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 47: Recycling and Emissions Reduction
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 82, Subpart F

Item 47.1:

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVAC's in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR Part 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR Part 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR Part 82.161.
- d. Persons disposing of small appliances, MVAC's, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR Part 82.166. ("MVAC-like appliance as defined at 40 CFR Part 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR Part 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82.166.

****** Emission Unit Level ******

Condition 48: Emission Point Definition By Emission Unit
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 48.1:

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

Emission Unit: 1-ENGTC

Emission Point: 00101

Height (ft.): 56	Diameter (in.): 6	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN



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Emission Point: 00102			
Height (ft.): 56	Diameter (in.): 6		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00103			
Height (ft.): 56	Diameter (in.): 6		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00104			
Height (ft.): 56	Diameter (in.): 6		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00105			
Height (ft.): 56	Diameter (in.): 6		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00106			
Height (ft.): 56	Diameter (in.): 6		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00108			
Height (ft.): 56	Diameter (in.): 6		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00110			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00111			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00112			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00113			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00114			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00115			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Emission Point: 00116			
Height (ft.): 50	Diameter (in.): 8		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00208			
Height (ft.): 14	Diameter (in.): 2		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00209			
Height (ft.): 14	Diameter (in.): 2		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	

Item 48.2:

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

Emission Unit: 2-PAINT			
Emission Point: 00020			
Height (ft.): 52	Diameter (in.): 12		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00023			
Height (ft.): 65	Diameter (in.): 29		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00024			
Height (ft.): 64	Diameter (in.): 20		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00025			
Height (ft.): 52	Diameter (in.): 12		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	

Item 48.3:

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

Emission Unit: 3-MANUF			
Emission Point: 00005			
Height (ft.): 39	Diameter (in.): 18		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00008			
Height (ft.): 39	Diameter (in.): 16		
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN	
Emission Point: 00009			
Height (ft.): 39	Diameter (in.): 16		



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NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00010		
Height (ft.): 39	Diameter (in.): 18	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00011		
Height (ft.): 39	Diameter (in.): 16	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00012		
Height (ft.): 39	Diameter (in.): 16	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00027		
Height (ft.): 39	Diameter (in.): 32	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00030		
Height (ft.): 38	Diameter (in.): 18	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00031		
Height (ft.): 39	Diameter (in.): 36	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00032		
Height (ft.): 39	Diameter (in.): 9	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00033		
Height (ft.): 39	Diameter (in.): 9	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00034		
Height (ft.): 39	Diameter (in.): 16	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00036		
Height (ft.): 39	Diameter (in.): 12	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00037		
Height (ft.): 39	Diameter (in.): 12	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00040		
Height (ft.): 37	Diameter (in.): 54	



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NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00041		
Height (ft.): 37	Diameter (in.): 54	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00042		
Height (ft.): 37	Diameter (in.): 54	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00043		
Height (ft.): 37	Diameter (in.): 54	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00044		
Height (ft.): 37	Diameter (in.): 54	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00045		
Height (ft.): 37	Diameter (in.): 54	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00048		
Height (ft.): 39	Diameter (in.): 12	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00049		
Height (ft.): 37	Diameter (in.): 54	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00051		
Height (ft.): 37	Diameter (in.): 36	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00052		
Height (ft.): 37	Diameter (in.): 60	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00053		
Height (ft.): 37	Diameter (in.): 36	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00055		
Height (ft.): 36	Diameter (in.): 10	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00058		
Height (ft.): 36	Diameter (in.): 12	



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NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00060		
Height (ft.): 39	Diameter (in.): 24	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00061		
Height (ft.): 39	Diameter (in.): 24	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00062		
Height (ft.): 39	Diameter (in.): 16	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00063		
Height (ft.): 39	Diameter (in.): 12	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00064		
Height (ft.): 39	Diameter (in.): 32	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00065		
Height (ft.): 7	Diameter (in.): 6	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00066		
Height (ft.): 39	Diameter (in.): 24	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00067		
Height (ft.): 39	Diameter (in.): 12	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00068		
Height (ft.): 39	Diameter (in.): 12	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00076		
Height (ft.): 39	Diameter (in.): 9	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00077		
Height (ft.): 39	Diameter (in.): 10	
NYTMN (km.): 4668.1	NYTME (km.): 139.2	Building: MAIN
Emission Point: 00081		
Height (ft.): 39	Diameter (in.): 16	



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Facility DEC ID: 9062200003

NYTMN (km.): 4668.1 NYTME (km.): 139.2 Building: MAIN

Item 48.4:

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

Emission Unit: 4-WASTE

Emission Point: 00201

Height (ft.): 3 Length (in.): 1440 Width (in.): 504
NYTMN (km.): 4668.1 NYTME (km.): 139.2 Building: WTB

Item 48.5:

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

Emission Unit: 5-HEATG

Emission Point: 00001

Height (ft.): 41 Diameter (in.): 24
NYTMN (km.): 4668.1 NYTME (km.): 139.2 Building: MAIN

Emission Point: 00003

Height (ft.): 41 Diameter (in.): 24
NYTMN (km.): 4668.1 NYTME (km.): 139.2 Building: MAIN

Emission Point: 00004

Height (ft.): 41 Diameter (in.): 24
NYTMN (km.): 4668.1 NYTME (km.): 139.2 Building: MAIN

Condition 49: Process Definition By Emission Unit
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 49.1:

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

Emission Unit: 1-ENGTC

Process: E01 Source Classification Code: 2-02-001-02

Process Description:

THIS PROCESS INCLUDES DIESEL ENGINES TESTED IN THE RESEARCH ENGINE TEST CELLS. THE PROCESS INCLUDES SEVEN EMISSION SOURCES (TC001 THROUGH TC006 AND TC008) AND THEIR CORRESPONDING DEDICATED STACKS (EMISSION POINTS 00101 THROUGH 00106 AND 00108).

Emission Source/Control: TC001 - Combustion

Design Capacity: 700 horsepower (mechanical)



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Emission Source/Control: TC002 - Combustion
Design Capacity: 700 horsepower (mechanical)

Emission Source/Control: TC003 - Combustion
Design Capacity: 700 horsepower (mechanical)

Emission Source/Control: TC004 - Combustion
Design Capacity: 700 horsepower (mechanical)

Emission Source/Control: TC005 - Combustion
Design Capacity: 700 horsepower (mechanical)

Emission Source/Control: TC006 - Combustion
Design Capacity: 700 horsepower (mechanical)

Emission Source/Control: TC008 - Combustion
Design Capacity: 700 horsepower (mechanical)

Item 49.2:

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

Emission Unit: 1-ENGTC

Process: E02

Source Classification Code: 2-02-001-02

Process Description:

THIS PROCESS INCLUDES DIESEL ENGINES TESTED IN THE PRODUCTION TEST CELLS. THE PROCESS INCLUDES SEVEN COMBUSTION EMISSION SOURCES (TC010 THROUGH TC016), THEIR CORRESPONDING DEDICATED AFTERBURNERS (JOHNSON FLARES) FOR SMOKE CONTROL (EMISSION SOURCES JF010 THROUGH JF016), AND THEIR CORRESPONDING DEDICATED STACKS (EMISSION POINTS 00110 THROUGH 00116). JOHNSON FLARES CONTROL SMOKE PRODUCED FROM PETROLEUM JELLY USED TO SEAL THE ENGINES FOR TESTING.

Emission Source/Control: TC010 - Combustion
Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: TC011 - Combustion
Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: TC012 - Combustion
Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: TC013 - Combustion



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Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: TC014 - Combustion
Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: TC015 - Combustion
Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: TC016 - Combustion
Design Capacity: 500 horsepower (mechanical)

Emission Source/Control: JF010 - Control
Control Type: DIRECT FLAME AFTERBURNER

0 Emission Source/Control: JF011 - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: JF012 - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: JF013 - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: JF014 - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: JF015 - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: JF016 - Control
Control Type: DIRECT FLAME AFTERBURNER

Item 49.3:

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

Emission Unit: 1-ENGTC

Process: E03

Source Classification Code: 2-02-001-06

Process Description:

THIS PROCESS INCLUDES THE STORAGE OF
DIESEL FUEL IN TWO ABOVEGROUND TANKS. THIS
FUEL IS PRIMARILY USED FOR ENGINE TESTING.

Emission Source/Control: TK002 - Process
Design Capacity: 20 1000 gallons

Emission Source/Control: TK003 - Process
Design Capacity: 20 1000 gallons

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



Item 49.4:

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

Emission Unit: 2-PAINT

Process: P01

Source Classification Code: 4-02-025-01

Process Description:

THIS PAINTING PROCESS INCLUDES THE ENTIRE EMISSION UNIT 2-PAINT. PAINT IS APPLIED TO THE ENGINES MANUALLY BY OPERATORS USING SPRAY GUNS. UP TO 10 DIFFERENT COLOR PAINTS ARE APPLIED TO THE ENGINES. PARTICULATES ARE CONTROLLED BY FILTERS. THE PAINT BOOTH SYSTEM INCLUDES ONE LARGE CONVEYORIZED PAINT BOOTH (EMISSION SOURCE PB007) IN WHICH THE ENGINES ARE PAINTED. EXHAUST FROM THE LARGE PAINT BOOTH PASSES THROUGH A FILTER (EMISSION SOURCE FL003) AND IS DIRECTED TO ONE STACK (EP00023). APPROXIMATELY 80% OF VOLATILE ORGANICS AND 100% OF PARTICULATES FROM THIS PROCESS ARE EMITTED OUT EP00023. EXHAUST AIR FROM THE SMALLER MANUAL BOOTH (EMISSION SOURCE PB006) PASSES THROUGH A FILTER (EMISSION SOURCE FL002) AND IS USED AS MAKE UP AIR FOR THE LARGE PAINT BOOTH. THE ENGINES ARE DIRECTED TO A FLASH TUNNEL (EMISSION SOURCE FT001/EP00024) AND TWO DRYING OVENS (DRYING OVEN VN002/EP00020 AND TOP COAT OVEN VN001/EP00025) AFTER THE PAINT BOOTHS. AN ESTIMATED 10% OF VOCS FROM THIS PROCESS ARE EMITTED FROM EP00024. AN ESTIMATED 5% AND 5% OF VOLATILE ORGANICS FROM THIS PROCESS ARE EMITTED FROM EP00020 AND EP00025, RESPECTIVELY.

Emission Source/Control: FL002 - Control
Control Type: FABRIC FILTER

Emission Source/Control: FL003 - Control
Control Type: FABRIC FILTER

Emission Source/Control: FT001 - Process

Emission Source/Control: PB006 - Process

Emission Source/Control: PB007 - Process

Emission Source/Control: VN001 - Process

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Emission Source/Control: VN002 - Process

Item 49.5:

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

Emission Unit: 3-MANUF

Process: 318

Source Classification Code: 3-09-030-07

Process Description:

PROCESS 318 IS THE FLYWHEEL MANUFACTURING LINE. THIS PROCESS INCLUDES EMISSIONS GENERATED FROM MACHINING (EMISSION SOURCE MC013) IN THE DRY CAST MANUFACTURING. EMISSIONS ARE CONTROLLED WITH A HIGH EFFICIENCY FILTER (EMISSION SOURCE FL004). EMISSIONS ARE EXHAUSTED THROUGH EMISSION POINT 00027.

Emission Source/Control: FL004 - Control

Control Type: FABRIC FILTER

Emission Source/Control: MC013 - Process

Item 49.6:

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

Emission Unit: 3-MANUF

Process: 501

Source Classification Code: 3-09-030-07

Process Description:

THE 501 PROCESS IS THE ROD LINE MANUFACTURING LINE. THIS PROCESS INCLUDES THREE ROD LINE MACHINING OPERATIONS AND THREE ASSOCIATED MIST COLLECTORS. THE CONN. ROD BROACHING OPERATION IS EMISSION SOURCE PR013, WITH MIST COLLECTOR EMISSION SOURCE FL012 (EMISSION POINT 00051). THE CONN. ROD TRANSFER LINE GUN DRILL PROCESS OPERATION IS EMISSION SOURCE PR014, WITH MIST COLLECTOR EMISSION SOURCE FL013 (EMISSION POINT 00052). THE CONN. ROD ALFING GRINDERS ARE EMISSION SOURCE MC015, WITH MIST COLLECTOR EMISSION SOURCE FL014 (EMISSION POINT 00053).

Emission Source/Control: FL012 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: FL013 - Control

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Control Type: MIST ELIMINATOR

Emission Source/Control: FL014 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: MC015 - Process

Emission Source/Control: PR013 - Process

Emission Source/Control: PR014 - Process

Item 49.7:

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

Emission Unit: 3-MANUF

Process: 503

Source Classification Code: 3-09-030-04

Process Description:

THE 503 PROCESS IS THE BLOCK LINE MANUFACTURING LINE. THIS PROCESS INCLUDES NINE MACHINING UNITS (EIGHT ROUGH END MACHINES AND ONE FINISH END MACHINE) AND FIVE ASSOCIATED HIGH-EFFICIENCY FARR-TENKAY DUST COLLECTORS. EMISSION SOURCES MC001 AND MC002 ARE CONTROLLED BY DUST COLLECTOR FL005 (EMISSION POINT 00040); MC003 AND MC004 BY FLOO6 (EMISSION POINT 00041); MC005 AND MC006 BY FL007 (EMISSION POINT 00042); MC007 AND MC008 BY FL008 (EMISSION POINT 00043); AND MC009 BY FL009 (EMISSION POINT 00049).

Emission Source/Control: FL005 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: FL006 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: FL007 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: FL008 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: FL009 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: MC001 - Process



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Emission Source/Control: MC002 - Process

Emission Source/Control: MC003 - Process

Emission Source/Control: MC004 - Process

Emission Source/Control: MC005 - Process

Emission Source/Control: MC006 - Process

Emission Source/Control: MC007 - Process

Emission Source/Control: MC008 - Process

Emission Source/Control: MC009 - Process

Item 49.8:

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

Emission Unit: 3-MANUF

Process: 511

Source Classification Code: 3-04-022-01

Process Description:

THE 511 PROCESS IS THE CAMSHAFT MANUFACTURING LINE. THIS PROCESS INCLUDES ONE NATURAL GAS-FIRED HEATER (CAM LINE DRAW OVEN BURNER - EMISSION SOURCE VN008/EMISSION POINT 00076), ONE COOLING DOWN SECTION (EMISSION SOURCE VN009/EMISSION POINT 00077), AN ACID ETCH (EMISSION SOURCE PR005/EMISSION POINT 00055), THREE IPE HARDENERS (ES PR001/EP 00036, ES PR002/EP00037, ES PR004/EP00058), AND A MACHINING OPERATION (ES PR011) AND ASSOCIATED MIST COLLECTOR (ES FL015/EP00081).

Emission Source/Control: VN008 - Combustion

Design Capacity: 2.6 million Btu per hour

Emission Source/Control: VN009 - Combustion

Emission Source/Control: FL015 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: PR001 - Process

Emission Source/Control: PR002 - Process



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Emission Source/Control: PR004 - Process

Emission Source/Control: PR005 - Process

Emission Source/Control: PR011 - Process

Item 49.9:

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

Emission Unit: 3-MANUF

Process: 514

Source Classification Code: 3-04-022-01

Process Description:

THE 514 PROCESS IS THE CRANKSHAFT MANUFACTURING LINE. THIS PROCESS INCLUDES THREE EMISSION SOURCES, EACH HAVING A DEDICATED EMISSION POINT: TWO NATURAL GAS-FIRED LANGLEY DRAW FURNACES WITH RATED CAPABILITIES OF 2.6MM BTU/HR (ES VN004/EP00032 AND ES VN005/EP00033) AND A DRAW OVEN COOL DOWN SECTION (ES VN003/EP00031). THE FURNACES ARE USED TO TREAT CRANKSHAFT PARTS. NO CONTROL EQUIPMENT IS ASSOCIATED WITH THIS PROCESS. SOME EMISSIONS OCCUR ASSOCIATED WITH MATERIALS USED FOR CLEANING OF PRODUCTS PRIOR TO ENTERING THE OVENS.

Emission Source/Control: VN004 - Combustion

Design Capacity: 2.6 million Btu per hour

Emission Source/Control: VN005 - Combustion

Design Capacity: 2.6 million Btu per hour

Emission Source/Control: VN003 - Process

Item 49.10:

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

Emission Unit: 3-MANUF

Process: 515

Source Classification Code: 3-09-030-04

Process Description:

THE 515 PROCESS IS THE HEAD LINE MANUFACTURING LINE. THIS PROCESS INCLUDES TWO LINE MACHINING OPERATIONS (EMISSION SOURCES MC010 AND MC011) AND TWO ASSOCIATED HIGH-EFFICIENCY FARR-TENKAY DUST COLLECTORS (ES FL010/EP00044 AND ES FL011/EP00045, RESPECTIVELY).

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Emission Source/Control: FL010 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: FL011 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: MC010 - Process

Emission Source/Control: MC011 - Process

Item 49.11:

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

Emission Unit: 3-MANUF

Process: 571

Source Classification Code: 3-04-022-01

Process Description:

THE 571 PROCESS IS THE AHD CAMLINE MANUFACTURING LINE. THIS PROCESS INCLUDES TWO MACHINING OPERATIONS (ES MC012 AND MC014) (WITH ASSOCIATED MIST COLLECTOR (ES FL017/EP00060 AND ES FL018/EP00064, RESPECTIVELY), AN ACID ETCH (ES PR009/EP00062), ONE HEAT TREAT PROCESS (ES PR007/EP00067), TWO HARDENERS (ES PR006/EP00063 AND ES PR008/EP00068) AND ONE DRAW OVEN (ES VN006/EP00065) AND DRAW OVEN COOLDOWN (ES VN007/EP00066).

Emission Source/Control: VN006 - Combustion
Design Capacity: 2.6 million Btu per hour

Emission Source/Control: VN007 - Combustion
Design Capacity: 2.6 million Btu per hour

Emission Source/Control: FL017 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: FL018 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: MC012 - Process

Emission Source/Control: MC014 - Process

Emission Source/Control: PR006 - Process

Emission Source/Control: PR007 - Process

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Emission Source/Control: PR008 - Process

Emission Source/Control: PR009 - Process

Item 49.12:

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

Emission Unit: 3-MANUF

Process: M01

Source Classification Code: 4-02-025-02

Process Description:

THIS PROCESS INCLUDES MISCELLANEOUS MACHINE WASHERS AT THE PLANT. THESE WASHERS UTILIZE WATER-BASED CLEANERS TO CLEAN AND DEGREASE ENGINE PARTS. THEY ARE IDENTIFIED AS FOLLOWS:

- ES WS001/EP00005 - CB/CF OP340 WASHER (CENTRI-SPRAY WET BLAST DEBURRING OF INJECTOR & VALVE LINERS) (AT H-21)
- ES WS002/EP00008 - LINER WASHER (RANSOHOFF) (AT F-18)
- ES WS003/EP00009 - LINER RP (RANSOHOFF) (AT G-19)
- ES WS004/EP00010 - ACC WASHER (LUBE PUMP) (AT C-26)
- ES WS005/EP00011 - PARTS WASHER (AT E-19)
- ES WS006/EP00012 - PISTON WASHER (AT C-4)
- ES WS007/EP00030 - CRANK WASHER (AT G-5)
- ES WS008/EP00034 - CB/CF OP440 WASHER (AT G-23)
- ES WS009/EP00048 - ROD LINE ELAN WASHER (AT S-30)
- ES WS010/EP00061 - AHD CAM LINE FINISH WASHER (AT M-4)

Emission Source/Control: WS001 - Process

Emission Source/Control: WS002 - Process

Emission Source/Control: WS003 - Process

Emission Source/Control: WS004 - Process

Emission Source/Control: WS005 - Process



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Emission Source/Control: WS006 - Process

Emission Source/Control: WS007 - Process

Emission Source/Control: WS008 - Process

Emission Source/Control: WS009 - Process

Emission Source/Control: WS010 - Process

Item 49.13:

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

Emission Unit: 4-WASTE

Process: W01

Source Classification Code: 3-09-825-99

Process Description:

THE W01 PROCESS INCLUDES WASTEWATER TREATMENT OPERATIONS AT THE FACILITY. THIS PROCESS INCLUDES WASTEWATER STORAGE (EMISSION SOURCE TK001) AND TREATMENT (EMISSION SOURCE PR010) TANKS AND ASSOCIATED ODOR CONTROL FILTER (ES FL016/EP00201).

Emission Source/Control: FL016 - Control

Control Type: BIOLOGICAL OXIDATION

Emission Source/Control: PR010 - Process

Design Capacity: 60,000 gallons per day

Emission Source/Control: TK001 - Process

Design Capacity: 60,000 gallons per day

Item 49.14:

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

Emission Unit: 5-HEATG

Process: R01

Source Classification Code: 1-03-006-02

Process Description:

THE R01 PROCESS INCLUDES THREE BOILERS USED TO CREATE HEAT AND STEAM FOR THE FACILITY. THE BOILERS CAN BURN EITHER NATURAL GAS OR NO. 2 FUEL OIL. EACH BOILER HAS A RATED CAPACITY OF 25.11 MM BTU/HR. PROCESS R01 IS FOR THE COMBUSTION OF NATURAL GAS AS THE PRIMARY FUEL SOURCE.



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Emission Source/Control: BR001 - Combustion
Design Capacity: 25.11 million Btu per hour

Emission Source/Control: BR002 - Combustion
Design Capacity: 25.11 million Btu per hour

Emission Source/Control: BR003 - Combustion
Design Capacity: 25.11 million Btu per hour

Item 49.15:

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

Emission Unit: 5-HEATG

Process: R02

Source Classification Code: 1-03-005-02

Process Description:

THE R02 PROCESS INCLUDES THREE BOILERS USED TO CREATE HEAT AND STEAM FOR THE FACILITY. THE BOILERS CAN BURN EITHER NATURAL GAS OR NO. 2 FUEL OIL. EACH BOILER HAS A RATED CAPACITY OF 25.11 MM BTU/HR. PROCESS R02 IS FOR THE COMBUSTION OF NO. 2 FUEL OIL AS A BACKUP FUEL SOURCE.

Emission Source/Control: BR001 - Combustion
Design Capacity: 25.11 million Btu per hour

Emission Source/Control: BR002 - Combustion
Design Capacity: 25.11 million Btu per hour

Emission Source/Control: BR003 - Combustion
Design Capacity: 25.11 million Btu per hour

Condition 50: Emission Unit Permissible Emissions

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 231-2.

Item 50.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 2-PAINT

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 51.7 pounds per hour
95,800 pounds per year



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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Condition 51: Emission Unit Permissible Emissions
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 63, Subpart A

Item 51.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 2-PAINT

CAS No: 000111-76-2

Name: ETHANOL, 2-BUTOXY-

PTE(s): 8.3 pounds per hour

19,000 pounds per year

CAS No: 001330-20-7

Name: XYLENE, M, O & P MIXT.

PTE(s): 15.5 pounds per hour

19,000 pounds per year

Condition 52: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 52.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee may construct a new engine test cell or modify an existing test cell under Operational Flexibility, 6NYCRR Part 201-6.5(f), which would otherwise be subject 6NYCRR Part 201-6.7, Permit Renewal and Modification, so long as it adheres to the requirements of this compliance monitoring condition. The permittee may not undertake any project under this monitoring condition which has applicable requirements not addressed by this condition. Where a determination of nonapplicability of 6NYCRR Part 201-6.7 has been made by the permittee for the anticipated change, records shall be kept on site documenting the change and how the determination was



made.

The facility shall undertake the following evaluations for each change subject to this compliance monitoring condition:

EVALUATION AND RECORDKEEPING REQUIREMENTS

- 1.) Identification of each existing engine test cell that is being modified, a description of the changes to these units, and identification and description of any new engine test cell and associated emission point(s). This description shall include date of change, any changes in emissions, and discussion of any environmental impacts associated with these changes.
- 2.) A listing of all applicable requirements associated with the described changes including control technology requirements and/or work practice standards, monitoring, and testing requirements, and a demonstration as to how such requirements will be complied with. This includes performance testing if applicable and periodic monitoring parameters and the schedules for their implementation.
- 3.) The facility is currently major for NO_x under 40 CFR 52.21 Prevention of Significant Deterioration regulations and under 6NYCRR Part 231-2 (potential emissions are greater than 250 tons/year). Therefore, potential emissions from a proposed project must be compared to the appropriate NSR de minimis values for each contaminant that is of concern under these regulations. If potential emissions are below the de minimis levels for each contaminant of concern, and no new applicable requirements that are not already contained in this permit are identified, the facility may proceed with its evaluation of the project under this condition. If potential emissions exceed one or more of the de minimis levels, the facility must perform an applicability determination for NSR and/or accept an emission cap to avoid NSR requirements; such action will require a permit modification issued by the Department which either demonstrates compliance with NSR or avoids NSR through capping. Several related changes that are part of a larger project spread over time must be evaluated cumulatively to determine if NSR requirements apply.

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4.) Each new or modified engine test cell shall be evaluated according to the requirements of 6 NYCRR Part 227-2, Reasonably Available Control Technology (RACT) for Oxides of Nitrogen. Internal combustion engines being operated under load are subject to the limits contained in Part 227-2.4(f). Engines not operating under load or otherwise not subject specifically to Part 227-2.4(f) limits are subject to Part 227-2.4(g), Other Combustion Sources. Part 227-2.4(g) requires a RACT analysis to be completed according to the Department's Air Guide 20. However, a RACT analysis is not required for combustion installations with emission rate potentials for NOx of less than 3.0 pounds per hour and actual emissions in the absence of control equipment of less than 15.0 pounds per day, as long as these emission rates are verifiable by means acceptable to the Department. Any new or modified source project which will pursue a RACT variance shall not be eligible to conduct the project under the operational flexibility procedures of this condition.

5.) Each new or modified engine test cell must meet the opacity limits of 6NYCRR Part 227-1.3.

6.) The facility shall also keep records related to items 1 through 5 above for each project on site for at least 5 years. Such records shall be subject to Department review during normal business hours.

REPORTING AND APPROVAL REQUIREMENTS

1.) For proposed new engine test cells and test cell modifications being constructed under terms of this permit condition (which otherwise would require a permit modification under 6 NYCRR Part 201-6.7, Permit Renewal and Modification), the facility shall provide advance notification to the Department at least 45 days prior to planned start of construction. The notification shall contain information from items 1 through 5 above and be subject to Department review, comment and approval. The advance notification shall use a permit modification application form. The application form will not be processed as a permit modification but serve to organize data for review by the Department. The form shall include any performance testing conditions, if applicable, and periodic compliance monitoring conditions. The facility shall adequately address all Department concerns prior to the start of construction and/or process change.



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2.) A summary of any activity conducted under this operational flexibility permit condition shall be reported in the facility's semiannual compliance monitoring report. The facility shall certify compliance of all changes made during the certification period pursuant to the above operational flexibility provisions at the end of each calendar year.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
s20 Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 53: Records of the dimension and capacity of storage vessels Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 60.116b(b), NSPS Subpart Kb

Item 53.1:

This Condition applies to Emission Unit: 1-ENGTC

Item 53.2:

The owner or operator of each storage vessel, as specified in 40CFR60.110b(a), shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the storage vessel.

Each storage vessel with a design capacity less than 75 cubic meters is subject to no provision of 40CFR60 Subpart Kb other than those required by the above paragraph.

Condition 54: Compliance Certification Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC
Process: E01

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
RESEARCH ENGINE TEST CELLS

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

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

1) Observe the stack for each internal combustion engine which is operating on oil once per test for visible emissions. If visible emissions exceeding one minute are observed, the engine test will be terminated. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

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

- weather condition
- was a plume observed?

This results summary must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) exceeding 20% opacity for one minute or longer the engine in the test cell will be shut down and corrective actions taken. The results of the corrective actions must be recorded in the operating log.

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

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Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 55: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC
Process: E01

Regulated Contaminant:
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NO_x emission limit for a lean burn internal combustion engine which fires other or multiple fuels. Results of periodic EPA engine compliance testing (frequency established by EPA), which may be performed on representative engines at an off site testing location, will be maintained on site to demonstrate compliance with the regulatory standard.

Parameter Monitored: OXIDES OF NITROGEN

Upper Limit of Monitoring: 9.0 grams per brake horsepower-hour

Reference Test Method: 40CFR86 Subpart N

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 56: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement:0 6NYCRR 227-2.4(f)(2)



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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC

Process: E01

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to verify that the engines are operated under conditions that have been confirmed to be in compliance with the limits of 6NYCRR 227-2.4(f)(ii) by required compliance testing per EPA 40CFR86 Subpart N, records of the engine testing activities carried out for this process shall be maintained on a daily basis. Parameters to be recorded shall include the time of occurrence, duration, and number of such tests; horsepower rating of the engines tested; and the testing sequence performed. Records shall be maintained in a format acceptable to the Department, and a summary of the records indicating any deviations from previously tested operating conditions shall be submitted to the Department twice per year as part of the facility's semi-annual compliance reporting.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 57: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC

Process: E01

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

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Facility DEC ID: 9062200003



Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner/operator of this internal combustion engine process shall perform compliance engine tests in order to demonstrate compliance with the regulatory standard. Owners or operators shall utilize the engine performance test method from EPA 40CFR86 Subpart N or another reference test method acceptable to the Department and the USEPA for determining compliance with the appropriate NOx limit set forth in Section 227-2.4. Such audit testing performed off site on representative engines may be accepted in place of on site stack testing. Testing procedures shall also comply with Subpart 202-1. The test shall be performed periodically as required by EPA throughout the life of the permit. The Department may require additional testing to ensure compliance with the limits of Section 227-2.4.

For the engineering test cells TC001 through TC006 and TC008 the NOx emission rates shall be determined by comparing the operating procedure for the engine against the NOx emission data determined in the engine development program to assure the engines operate below the 9.0 gram/bhp-hr limit. The NOx emission rate determination will be checked in the exempt reliability cells 7 or 9 using properly calibrated NOx measuring equipment. The assurance test will consist of testing at least one point at highest NOx and one point at highest particulate emission and comparing results to the predicted emission for the most severe operating condition to be encountered.

Records will be maintained of the calculations and tests for five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Limit of Monitoring: 9.0 grams per brake horsepower-hour

Reference Test Method: 40CFR86 Subpart N

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 58: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006



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

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC
Process: E02

Item 58.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

INTERNAL COMBUSTION ENGINE PRODUCTION TEST CELLS

- 1.) No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in EPA reference test Method 9 in Appendix A of 40 CFR 60.
- 2.) The in-stack afterburner shall be operated whenever an engine being tested is in the process of burning off oily material from the catalytic exhaust.
- 3.) Each stack shall be observed for visible emissions once per week during normal production during daylight hours. If opacity exceeds 20%, either the engine test shall be terminated or an EPA Method 9 observation conducted. If the test is terminated due to opacity or the Method 9 observation results in a 6 minute average opacity of over 20% the facility shall take corrective action and record the results in a log maintained at the facility. Any exceedance of the six-minute-average 20% opacity limit shall be reported to the Department within 3 business days.
- 4.) The compliance status of this monitoring condition shall be reported semiannually.

Upper Limit of Monitoring: 20 percent
Reference Test Method: EPA Method 9
Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)



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Facility DEC ID: 9062200003

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 59: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC
Process: E02

Regulated Contaminant:
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limit for a lean burn internal combustion engine which fires other or multiple fuels. Results of periodic EPA engine compliance testing (frequency established by EPA), which may be performed on representative engines at an off site testing location, will be maintained on site to demonstrate compliance with the regulatory standard.

Parameter Monitored: OXIDES OF NITROGEN

Upper Limit of Monitoring: 9.0 grams per brake horsepower-hour

Reference Test Method: 40CFR86 Subpart N

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 60: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC



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Facility DEC ID: 9062200003

Process: E02

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to verify that the engines are operated under conditions that have been confirmed to be in compliance with the limits of 6NYCRR 227-2.4(f)(ii) by required compliance testing per EPA 40CFR86 Subpart N, records of the engine testing activities carried out for this process shall be maintained on a daily basis. Parameters to be recorded shall include the time of occurrence, duration, and number of such tests; horsepower rating of the engines tested; and the testing sequence performed. Records shall be maintained in a format acceptable to the Department, and a summary of the records indicating any deviations from previously tested operating conditions shall be submitted to the Department twice per year as part of the facility's semi-annual compliance reporting.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 61: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC

Process: E02

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 61.2:

Compliance Certification shall include the following monitoring:

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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner/operator of this internal combustion engine process shall perform compliance engine tests in order to demonstrate compliance with the regulatory standard. Owners or operators shall utilize the engine performance test method from EPA 40CFR86 Subpart N or another reference test method acceptable to the Department and the USEPA for determining compliance with the appropriate NOx limit set forth in Section 227-2.4. Such audit testing performed off site on representative engines may be accepted in place of on site stack testing. Testing procedures shall also comply with Subpart 202-1. The test shall be performed periodically as required by EPA throughout the life of the permit. Testing shall be performed with the engines operating under conditions equivalent to the testing cycles actually being used by the facility. If, during the term of this permit, the testing cycles are altered, the Department may require additional testing to ensure compliance with the limits of Section 227-2.4.

Parameter Monitored: OXIDES OF NITROGEN

Upper Limit of Monitoring: 9.0 grams per brake horsepower-hour

Reference Test Method: 40CFR86 Subpart N

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 62: Emissions from new emission sources and/or modifications
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 62.1:

This Condition applies to Emission Unit: 1-ENGTC
Process: E03

Item 62.2:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 63: Emissions from new emission sources and/or modifications
not specified by Table 2
Effective between the dates of 04/24/2001 and 04/24/2006**

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Applicable Federal Requirement: 6NYCRR 212.4(b)

Item 63.1:

This Condition applies to Emission Unit: 1-ENGTC
Process: E03

Item 63.2:

For gases and liquid particulates with an environmental rating of A, B, or C and for solid particulates with an environmental rating of A, where the emission rate potential is not shown in Table 2 the permissible emission rate shall be specified by the commissioner.

Condition 64: Monitoring of operations.

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 60.116b(a), NSPS Subpart Kb

Item 64.1:

This Condition applies to Emission Unit: 1-ENGTC
Process: E03 Emission Source: TK002

Item 64.2:

The owner or operator shall maintain records of materials stored, time stored, and the maximum vapor pressure during the storage period; for a minimum of 2 years.

Condition 65: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 60.116b(b), NSPS Subpart Kb

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC
Process: E03 Emission Source: TK002

Regulated Contaminant:
CAS No: 0NY998-00-0
Name: VOC

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.



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These records shall be kept on site for the life of the storage vessel.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 66: Monitoring of operations.

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 60.116b(a), NSPS Subpart Kb

Item 66.1:

This Condition applies to Emission Unit: 1-ENGTC

Process: E03

Emission Source: TK003

Item 66.2:

The owner or operator shall maintain records of materials stored, time stored, and the maximum vapor pressure during the storage period; for a minimum of 2 years.

Condition 67: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 60.116b(b), NSPS Subpart Kb

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-ENGTC

Process: E03

Emission Source: TK003

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept on site for the life of the storage vessel.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

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Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 68: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Regulated Contaminant:

CAS No: 0NY998-00-0

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee may operate the Emission Unit 2-PAINT paint system using different types of coatings under Operational Flexibility, 6NYCRR Part 201-6.5(f), which would otherwise be subject to 6NYCRR Part 201- 6.7, Permit Renewal and Modification, so long as each change which would have required a permit modification adheres to the requirements of this compliance monitoring condition. Any changes to coating formulations may be made without Department approval so long as those changes are not subject to a permit modification or the operational flexibility provisions of this condition. The permittee may not undertake any project under this monitoring condition which has applicable requirements not addressed by this condition. Where a determination of nonapplicability of 6NYCRR Part 201-6.7 has been made by the permittee for the anticipated change, records shall be kept on site documenting the change and how the determination was made.

The facility shall undertake the following evaluations for each change subject to this compliance monitoring condition:

EVALUATION AND RECORDKEEPING REQUIREMENTS

1.) The facility must maintain records identifying and describing the new or modified coating formulations,

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including date of change, MSDS for the material being used, any changes in equipment or operating procedures associated with the change in coating formulation, any changes in emissions, and discussion of any environmental impacts associated with these changes.

2.) A listing of all applicable requirements associated with the described changes including control technology requirements and/or work practice standards, monitoring, and testing requirements, and a demonstration as to how such requirements will be complied with. This includes performance testing if applicable and periodic monitoring parameters and the schedules for their implementation.

3.) The facility is currently major for NO_x under 40 CFR 52.21 Prevention of Significant Deterioration regulations and under 6NYCRR Part 231-2 (potential emissions are greater than 250 tons/year). Therefore, potential emissions from a proposed project must be compared to the appropriate NSR de minimis values for each contaminant that is of concern under these regulations. If potential emissions are below the de minimis levels for each contaminant of concern, and no new applicable requirements that are not already contained in this permit are identified, the facility may proceed with its evaluation of the project under this condition. If potential emissions exceed one or more of the de minimis levels, the facility must perform an applicability determination for NSR and/or accept an emission cap to avoid NSR requirements; such action will require a permit modification issued by the Department which either demonstrates compliance with NSR or avoids NSR through capping. Several related changes that are part of a larger project spread over time must be evaluated cumulatively to determine if NSR requirements apply.

4.) To accommodate a previous modification in the paint emission unit without triggering the control and offset requirements of 6NYCRR 231-2, the facility has accepted a limit on the VOC emissions from this emission unit not to exceed 47.9 tons per year in any consecutive rolling 12 month period. Compliance with this emission cap limit shall be demonstrated by maintaining records on a monthly basis of paint usage and corresponding VOC emissions, based on MSDS VOC content derived by EPA Method 24 or a Department-approved equivalent (as described in this

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permit under 6NYCRR 231-2). Any increases in VOC emissions associated with changes in coating formulations performed under this operational flexibility condition shall not exceed the emissions cap. If the project would cause VOC emissions to exceed this cap, such action will require a permit modification issued by the Department which demonstrates compliance with NSR.

5.) The coating line is described in Table 1 of 6NYCRR 228.7, "coating lines for misc. metal parts and products", and the coating application system is air dried or forced warm air dried at temperature up to 90 deg. C. Because the facility has a potential to emit volatile organic compounds (VOC) greater than the 6NYCRR 228 Table 1 VOC RACT applicability threshold of 10 tons/year, all coatings must be compliant with the RACT requirements, including meeting the limit of 3.5 pounds VOC per gallon (minus water and excluded VOC) as applied, or the facility must utilize a coating system meeting the requirements of 228.3(d) or control equipment meeting the requirements of 228.3(b) and (c). VOC content of coatings as applied minus water and excluded VOC shall be calculated as defined in 6NYCRR 228.2 using EPA Method 24 or a Department-approved equivalent as the acceptable analytical method for determining volatile content, water content, density, volume of solids and weight of solids of surface coatings. If non-compliant coating formulations are proposed, the facility must submit a RACT demonstration and must implement RACT when operation commences. Any new or modified source project which is not exempt from RACT and which will pursue a RACT variance or otherwise will not install RACT shall not be eligible to be conducted under the operational flexibility procedures of this condition.

6.) The emission rate potential of any highly toxic air pollutants (as defined in Air Guide 1 [DAR-1]), including increases in contaminants already emitted as well as contaminants previously not emitted by the facility, must meet the DAR-1 annual and short term guidance values and must not exceed one pound per hour or require the application of the Best Available Control Technology (BACT) requirements of 6NYCRR Part 212.4 for highly toxic air pollutants. If BACT is required, an application for a permit modification must be submitted. Material Safety Data Sheets for each material must be maintained.

7.) Particulate emissions must not exceed the 0.05

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gr/dscf limitation of 6NYCRR Part 212.4(c).

8.) The facility shall also keep records related to items 1 to 7 above for each project on site for at least 5 years. Such records shall be subject to Department review during normal business hours.

REPORTING AND APPROVAL REQUIREMENTS

1.) For proposed changes in coating formulations and associated changes in equipment or operating procedures being made under terms of this permit condition which will comply with VOC RACT requirements or which will increase the emission rate potential of any highly toxic air pollutants without triggering a requirement for BACT (which otherwise would require a permit modification under 6NYCRR Part 201-6.7, Permit Renewal and Modification), the facility shall provide advance notification to the Department at least 45 days prior to planned construction. The notification shall contain information from items 1 through 7 of "EVALUATION AND RECORDKEEPING REQUIREMENTS" above and be subject to Department review, comment and approval. The advance notification shall use a permit modification application form. The application form will not be processed as a permit modification but serve to organize data for review by the Department. The form shall include any performance testing conditions, if applicable, and periodic compliance monitoring conditions. The facility shall adequately address all Department concerns prior to the start of construction and/or process change.

2.) A summary of any activity conducted under this operational flexibility permit condition shall be reported in the facility's semiannual compliance monitoring report. The facility shall certify compliance of all changes made during the certification period pursuant to the above operational flexibility provisions at the end of each calendar year.

Reference Test Method: METHOD 24

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)



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Condition 69: Applicability and compliance
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.1(a)

Item 69.1:

This Condition applies to Emission Unit: 2-PAINT

Item 69.2:

Any owner or operator of a facility involving a coating line described in table 1 of 6NYCRR Part 228.7 or in table 2 of 6NYCRR Part 228.8 and which meets the current applicability criteria, must include with the application for a permit, the method or methods which will be used to comply with the requirements of 6NYCRR Part 228.

Condition 70: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.1(h)

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

6NYCRR Part 228 does not apply to low-use specialty coatings where the plantwide total annual usage is equal or less than 55 gallons, provided that:

1. each specialty coating must be approved by the commissioner's representative prior to application;
2. records must be maintained on an as used basis in a format acceptable to the commissioner that documents actual usage;
3. the annual potential to emit from low-use specialty coatings does not exceed five percent of the facility's total annual potential to emit;
4. the facility's permits are modified to identify any coating(s) approved by the commissioner's representative which are exempt from 6NYCRR Part 228.

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: ANNUAL TOTAL



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Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

**Condition 71: Volatile organic compound emission control requirements
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 228.3(a)

Item 71.1:

This Condition applies to Emission Unit: 2-PAINT

Item 71.2:

No person shall cause or allow the usage of coatings that exceed the allowable pounds of volatile organic compounds per gallon, minus water and excluded VOC at application, as specified in table 1 and table 2 of Part 228, unless an approved coating system or approved control equipment is utilized or a variance has been granted.

In the absence of an approved coating system, approved control equipment or a variance, surface coating of only those materials specified in conditions of this permit citing Tables 1 and 2 in Sections 228.7 and 228.8 shall be allowed.

**Condition 72: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 228.3(a)

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For all surface coatings subject to 6NYCRR Part 228, the VOC content (as applied, minus water and excluded VOC), must be less than or equal to the limit specified in Table 1 or Table 2 for the respective surface that is coated.

The VOC content of a coating, as applied, is calculated as follows:

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$$(VOC)_a = (Dc)_a \left\{ \frac{[(Wv)_a - (Ww)_a - (We)_a]}{[1 - [(Vw)_a + (Ve)_a]]} \right\}$$

Where:

(VOC)_a = VOC content of "as applied" coating, expressed as a mass of VOC in pounds, per gallon of coating, in gallons, minus water and excluded VOC

(Dc)_a = Coating density as applied, in pounds per gallon

(Wv)_a = The weight fraction of total volatiles in the coating, as applied

(Ww)_a = The weight fraction of water in the coating, as applied

(Vw)_a = The volume fraction of water in the coating, as applied

(We)_a = The weight fraction of excluded VOCs in the coating, as applied

(Ve)_a = The volume fraction of excluded VOCs in the coating, as applied

To demonstrate compliance with the 3.5 lb/gal (minus water and excluded VOC) limit for the miscellaneous metal parts and products coated in this emission unit, the owner and/or operator must collect coating samples for analysis as follows:

- 1) Once per calendar year, the facility must review usage records for the previous 12 month period and identify the highest usage coating from each of the "families" of coatings used in this emission unit (at the time of permit issuance, two "families" were in use, including water-based and high-solids solvent-based coatings).
- 2) A grab sample must be taken of the "as applied" highest usage coating from each family of coatings. In addition, one other coating shall be selected at random for sampling.
- 3) All samples shall be analyzed using Method 24 from 40CFR60, the VOC content (in pounds per gallon of coating minus water and excluded VOC) shall be determined using the calculation provided in this permit condition, and the result shall be compared to the limit.

Reference Test Method: Method 24 (40CFR60)

Monitoring Frequency: ANNUALLY

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 73: Compliance Certification



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Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.3(e)(1)

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The commissioner may allow surface coating processes to operate with a lesser degree of control than is required by 6NYCRR Part 228, provided that a process specific reasonably available control technology (RACT) demonstration has been made to the satisfaction of the commissioner.

Process specific RACT demonstrations shall be submitted with the application for a permit under the provisions of 6NYCRR Part 201. Such process specific RACT demonstrations must be submitted to the United States Environmental Protection Agency as a revision to New York's State Implementation Plan, and must address the technical and economic feasibility of:

1. utilizing compliant coatings;
2. utilizing demonstrated and proven emission control technologies which would achieve the required overall removal efficiency as determined by 6NYCRR Part 228.3(c);
3. utilizing demonstrated and proven emission control technologies which would achieve a degree of overall removal efficiency less than required as determined under 6NYCRR Part 228.3(c); and
4. utilizing demonstrated and proven production modification methods which would result in real, documented, and enforceable reductions in the volatile organic compound emissions from the process.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

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Condition 74: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.4

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Item 74.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions to the outdoor atmosphere having an average opacity of 20 percent or greater for any consecutive six-minute period from any emission source subject to 6NYCRR Part 228.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY

Upper Limit of Monitoring: 20 percent

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 75: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.5(a)

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



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Certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of the as applied coating, for each coating used at the facility, must be maintained and, upon request, be provided to the departments representative. In addition, purchase, usage and/or production records of the coating material, including solvents, must be maintained and, upon request, be submitted to the department. Records must be maintained at the facility for a period of five years.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 76: Alternative Analytical Methods
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.5(c)

Item 76.1:

This Condition applies to Emission Unit: 2-PAINT

Item 76.2:

Where the methods referenced in 6 NYCRR Part 228.5(b) are not applicable, alternate analytical methods for surface coating may be acceptable, subject to the approval of the commissioner.

Condition 77: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 231-2.

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 77.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

THE VOC EMISSIONS FROM THIS EMISSION UNIT, 2-PAINT, SHALL NOT EXCEED 95,800 POUNDS PER YEAR IN ANY CONSECUTIVE ROLLING 12 MONTH PERIOD. THIS LIMIT WAS ADOPTED IN AIR STATE FACILITY PERMIT 9-0622-00003/00067 WHEN THE FACILITY APPLIED FOR A PROJECT IN 1997 TO MODIFY THIS EMISSION UNIT FROM THE MANNER IN WHICH IT WAS THEN CONFIGURED AND OPERATED. THE VOC EMISSIONS FROM THE PROJECT ITSELF WERE LIMITED TO LESS THAN 39 TONS/YEAR AS DETERMINED BY SUMMING THE VOC CONSUMPTION FROM THE PROJECT DURING ANY CONSECUTIVE 12 MONTH PERIOD. PART 231-2 NEW SOURCE REVIEW WAS THEREFORE NOT REQUIRED FOR THE PROJECT. ACTUAL VOC EMISSIONS PRIOR TO THE CHANGE WERE 8.9 TONS/YEAR. TOTAL VOC EMISSIONS FROM THIS EMISSION UNIT WERE THEREFORE CAPPED SO AS NOT TO EXCEED 47.9 TONS/YEAR (95,800 LBS/YR).

COMPLIANCE WITH THIS EMISSION CAP LIMIT SHALL BE DEMONSTRATED BY MAINTAINING RECORDS ON A MONTHLY BASIS OF PAINT USAGE AND CORRESPONDING VOC EMISSIONS, BASED ON MSDS VOC CONTENT DERIVED BY EPA METHOD 24 OR DEPARTMENT APPROVED EQUIVALENT. AT THE BEGINNING OF EACH MONTH THE FACILITY SHALL CALCULATE TOTAL VOC EMISSIONS FOR THE PREVIOUS MONTH AND TOTAL VOC EMISSIONS FOR THE PREVIOUS CONSECUTIVE 12 MONTH PERIOD.

AS PER 6NYCRR 201-7.2(E), ON AN ANNUAL BASIS, 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 THE EMISSION UNIT 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 EMISSION LIMIT.

Reference Test Method: Method 24 (40CFR60)



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Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 78: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 63, Subpart A

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Regulated Contaminant:

CAS No: 000111-76-2

Name: ETHANOL, 2-BUTOXY-

Item 78.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE 2-BUTOXY-ETHANOL EMISSIONS FROM THIS EMISSION UNIT SHALL BE LIMITED TO 19,000 POUND PER YEAR IN ANY CONSECUTIVE ROLLING 12 MONTH PERIOD. THIS LIMIT WAS ADOPTED IN AIR STATE FACILITY PERMIT 9-0622-00003/00067 WHEN THE FACILITY APPLIED FOR A PROJECT IN 1997 TO MODIFY THIS EMISSION UNIT FROM THE MANNER IN WHICH IT WAS THEN CONFIGURED AND OPERATED. 2-BUTOXY-ETHANOL EMISSIONS WERE LIMITED TO LESS THAN THE 10 TON PER YEAR MAJOR SOURCE THRESHOLD OF 40 CFR 63 SO THAT THE PROJECT WOULD BE CONSIDERED AN AREA SOURCE FOR NESHAP APPLICABILITY.

COMPLIANCE WITH THIS EMISSION CAP LIMIT SHALL BE DEMONSTRATED BY MAINTAINING RECORDS ON A MONTHLY BASIS OF SOLVENT AND PAINT USAGE AND CORRESPONDING 2-BUTOXY-ETHANOL EMISSIONS, BASED ON MSDS CONTENT OR DEPARTMENT APPROVED EQUIVALENT. AT THE BEGINNING OF EACH



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MONTH THE FACILITY SHALL CALCULATE TOTAL 2-BUTOXY-ETHANOL EMISSIONS FOR THE PREVIOUS MONTH AND TOTAL 2-BUTOXY-ETHANOL EMISSIONS FOR THE PREVIOUS CONSECUTIVE 12 MONTH PERIOD.

AS PER 6NYCRR 201-7.2(E), ON AN ANNUAL BASIS, 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 THE EMISSION UNIT 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 EMISSION LIMIT.

Reference Test Method: MSDS

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MINIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 79: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 40CFR 63, Subpart A

Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Regulated Contaminant:

CAS No: 001330-20-7

Name: XYLENE, M, O & P MIXT.

Item 79.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE XYLENE EMISSIONS FROM THIS EMISSION UNIT SHALL BE LIMITED TO 19,000 POUND PER YEAR IN ANY CONSECUTIVE ROLLING 12 MONTH PERIOD. THIS LIMIT WAS ADOPTED IN AIR

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STATE FACILITY PERMIT 9-0622-00003/00067
WHEN THE FACILITY APPLIED FOR A PROJECT
IN 1997 TO MODIFY THIS EMISSION UNIT FROM
THE MANNER IN WHICH IT WAS THEN
CONFIGURED AND OPERATED. XYLENE
EMISSIONS WERE LIMITED TO LESS THAN THE
10 TON PER YEAR MAJOR SOURCE THRESHOLD OF
40 CFR 63 SO THAT THE PROJECT WOULD BE
CONSIDERED AN AREA SOURCE FOR NESHAP
APPLICABILITY.

COMPLIANCE WITH THIS EMISSION CAP LIMIT
SHALL BE DEMONSTRATED BY MAINTAINING
RECORDS ON A MONTHLY BASIS OF SOLVENT AND
PAINT USAGE AND CORRESPONDING XYLENE
EMISSIONS, BASED ON MSDS CONTENT OR
DEPARTMENT APPROVED EQUIVALENT. AT THE
BEGINNING OF EACH MONTH THE FACILITY
SHALL CALCULATE TOTAL XYLENE EMISSIONS
FOR THE PREVIOUS MONTH AND TOTAL XYLENE
EMISSIONS FOR THE PREVIOUS CONSECUTIVE 12
MONTH PERIOD.

AS PER 6NYCRR 201-7.2(E), ON AN ANNUAL
BASIS, 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 THE EMISSION UNIT
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 EMISSION LIMIT.

Reference Test Method: MSDS

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 80: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 80.1:

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



Emission Unit: 2-PAINT

Process: P01

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

Parameter Monitored: PARTICULATES

Upper Limit of Monitoring: 0.05 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 81: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 81.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT

Process: P01

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 81.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



Operators of all paint spray booths must periodically monitor the booths and the accompanying particulate control device(s) by completing the following tasks on a monthly basis:

- Inspect the spray booth emission point for evidence of paint fallout and for presence of visible emissions. Presence of visible emissions indicates that the emission sources may not be operating properly and may need servicing.
- Inspect the spray booth's particulate control device for evidence that maintenance or replacement is needed.
- Record in a central data acquisition system, which shall be made available for Department review upon request, the following information: date, time, name of staff person performing inspection, and inspection results for each inspection; and, whenever a problem is discovered, a description of the problem, cause and corrective action taken.

Regardless of when a problem is noted, i.e., at a time other than during the monthly inspection, it must be immediately remedied.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 82: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: 2-PAINT
Process: P01

Regulated Contaminant:
CAS No: 0NY075-00-0
Name: PARTICULATES

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a visible emissions observation 20 of all emission points once per week during daylight hours, except during conditions of extreme weather (fog, snow, rain). If any visible emissions are identified, corrective action is required as per the facility's maintenance procedures.

Weekly records of observations are to be maintained, including explanations for days when weather conditions are prohibitive, on-site for a period of five years.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

Parameter Monitored: OPACITY

Upper Limit of Monitoring: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 83: method 24 40 CFR 60
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.5(b)

Item 83.1:

This Condition applies to Emission Unit: 2-PAINT
Process: P01

Item 83.2:

Acceptable analytical methods for determining the volatile content, water content, density, volume of solids and weight of solids of surface coatings are presented in appendix A, method 24, of 40 CFR 60.

Condition 84: samples
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.5(d)



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Item 84.1:

This Condition applies to Emission Unit: 2-PAINT
Process: P01

Item 84.2:

Representatives of the department shall be permitted, during reasonable business hours, to obtain coating samples for the purpose of determining compliance.

Condition 85: prohibition of sale or specification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.6(a)

Item 85.1:

This Condition applies to Emission Unit: 2-PAINT
Process: P01

Item 85.2:

No person shall sell, specify, or require for use the application of a coating on a part or product at a facility with a coating line described in table 1 or 2 of 6NYCRR Part 228 if such use is prohibited. This prohibition shall apply to all written or oral contracts under the terms of which any coating is to be applied to any part or product at an affected facility. This prohibition shall not apply to the following:

- (1) coatings utilized at surface coating lines where control equipment has been installed to meet the allowable VOC content limitations specified in tables 1 and 2 of Part 228;
- (2) coatings utilized at surface coating lines where a coating system is used which meets the requirements specified in Part 228; and
- (3) coatings utilized at surface coating lines that have been granted variances for reasons of technological and economic feasibility.

Condition 86: certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.6(b)

Item 86.1:

This Condition applies to Emission Unit: 2-PAINT
Process: P01

Item 86.2:

Any person selling a coating for use in a coating line subject to 6NYCRR Part 228 must, upon request, provide the user with certification of the volatile organic compound content of the coating supplied.

Condition 87: coating lines for miscellaneous metal parts and products,
system is air dried or forced warm air dried at

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



temperature up to 90 degrees Celsius
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 228.7

Item 87.1:

This Condition applies to Emission Unit: 2-PAINT
Process: P01

Item 87.2:

The maximum pounds of volatile organic compounds per gallon (minus water and excluded VOC) at coating lines for miscellaneous metal parts and products, coating application system is air dried or forced warm air dried at temperature up to 90 degrees Celsius, shall not exceed 3.5 lbs/gal at application.

Condition 88: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: 3-MANUF

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee may install a new or modified machining process or emission source within the 3-MANUF emission unit under Operational Flexibility, 6NYCRR Part 201-6.5(f), which would otherwise be subject to 6NYCRR Part 201- 6.7, Permit Renewal and Modification, so long as each change which would have required a permit modification adheres to the requirements of this compliance monitoring condition. Any changes to cutting oils, lubricants, coolants, or cleaning solutions used in an existing machining process may be made without Department approval so long as those changes are not subject to a permit modification or the operational flexibility provisions of this condition. An existing machining process or emission source and any associated emission point(s) may be removed, relocated, replaced in



kind, or modified without Department approval so long as those changes are not subject to a permit modification or the operational flexibility provisions of this condition. The permittee may not undertake any project under this monitoring condition which has applicable requirements not addressed by this condition. Where a determination of nonapplicability of 6NYCRR Part 201-6.7 has been made by the permittee for the anticipated change, records shall be kept on site documenting the change and how the determination was made.

The facility shall undertake the following evaluations for each change subject to this compliance monitoring condition:

EVALUATION AND RECORDKEEPING REQUIREMENTS

- 1.) The facility must maintain records identifying and describing the new or modified machining process or emission source and associated emission point(s), including date of change, MSDS for the material being used, any changes in emissions, and discussion of any environmental impacts associated with these changes.
- 2.) A listing of all applicable requirements associated with the described changes including control technology requirements and/or work practice standards, monitoring, and testing requirements, and a demonstration as to how such requirements will be complied with. This includes performance testing if applicable and periodic monitoring parameters and the schedules for their implementation.
- 3.) The facility is currently major for NO_x under 40 CFR 52.21 Prevention of Significant Deterioration regulations and under 6NYCRR Part 231-2 (potential emissions are greater than 250 tons/year). Therefore, potential emissions from a proposed project must be compared to the appropriate NSR de minimis values for each contaminant that is of concern under these regulations. If potential emissions are below the de minimis levels for each contaminant of concern, and no new applicable requirements that are not already contained in this permit are identified, the facility may proceed with its evaluation of the project under this condition. If potential emissions exceed one or more of the de minimis levels, the facility must perform an applicability determination for

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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



NSR and/or accept an emission cap to avoid NSR requirements; such action will require a permit modification issued by the Department which either demonstrates compliance with NSR or avoids NSR through capping. Several related changes that are part of a larger project spread over time must be evaluated cumulatively to determine if NSR requirements apply.

4.) The facility has a potential to emit volatile organic compounds (VOC) greater than the 6NYCRR Part 212 RACT applicability threshold of 50 tons/year. Each new or modified process source of VOCs in emission unit 3-MANUF shall be evaluated according to the requirements of 6NYCRR Part 212.10, Reasonably Available Control Technology for Major Facilities. Under 6NYCRR Part 212.10 VOC RACT, any new emission sources emitting VOCs which commence construction after August 15, 1994, must submit a RACT demonstration and must implement RACT when operation commences unless VOC emission rate potentials are less than 3.0 pounds per hour and actual emissions in the absence of control equipment are less than 15.0 pounds per day. VOC content may be determined using MSDS data where available; the method by which VOC content was determined should be identified. Where MSDS VOC content data are not available for cutting oils, lubricants, coolants, or cleaning solutions where the process in which the material is used does not exceed an operational temperature of 50 degrees C, a modified Method 24 (Castrol MW-TM-122, Rev. 2, run at 50 degrees C) shall be acceptable for determining VOC content. For materials for which the MSDS data or the Castrol analytical method cited above are not representative of the conditions under which the material is used, VOC content may be determined by EPA Method 24 or by a Department-approved equivalent. Any new or modified source project which is not exempt from RACT and which will pursue a RACT variance or otherwise will not install RACT shall not be eligible to be conducted under the operational flexibility procedures of this condition.

5.) The emission rate potential of any highly toxic air pollutants (as defined in Air Guide 1 [DAR-1]), including increases in contaminants already emitted as well as contaminants previously not emitted by the facility, must meet the DAR-1 annual and short term guidance values and must not exceed one pound per hour or require the application of the Best Available Control Technology

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(BACT) requirements of 6NYCRR Part 212.4 for highly toxic air pollutants. If BACT is required, an application for a permit modification must be submitted. Material Safety Data Sheets for each material must be maintained.

6.) Particulate emissions must not exceed the 0.05 gr/dscf limitation of 6NYCRR Part 212.4(c).

7.) The facility shall also keep records related to items 1 to 6 above for each project on site for at least 5 years. Such records shall be subject to Department review during normal business hours.

REPORTING AND APPROVAL REQUIREMENTS

1.) For proposed new machining processes or emission sources or modifications to existing processes or emission sources being constructed under terms of this permit condition which will comply with VOC RACT requirements or which will increase the emission rate potential of any highly toxic air pollutants without triggering a requirement for BACT (which otherwise would require a permit modification under 6NYCRR Part 201-6.7, Permit Renewal and Modification), the facility shall provide advance notification to the Department at least 45 days prior to planned construction. The notification shall contain information from items 1 through 6 of "EVALUATION AND RECORDKEEPING REQUIREMENTS" above and be subject to Department review, comment and approval. The advance notification shall use a permit modification application form. The application form will not be processed as a permit modification but serve to organize data for review by the Department. The form shall include any performance testing conditions, if applicable, and periodic compliance monitoring conditions. The facility shall adequately address all Department concerns prior to the start of construction and/or process change.

2.) A summary of any activity conducted under this operational flexibility permit condition shall be reported in the facility's semiannual compliance monitoring report. The facility shall certify compliance of all changes made during the certification period pursuant to the above operational flexibility provisions at the end of each calendar year.

Monitoring Frequency: AS REQUIRED - SEE MONITORING



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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

**Condition 89: Emissions from new emission sources and/or modifications
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 89.1:

This Condition applies to Emission Unit: 3-MANUF

Item 89.2:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 90: Emissions from new emission sources and/or modifications
not specified by Table 2
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 212.4(b)

Item 90.1:

This Condition applies to Emission Unit: 3-MANUF

Item 90.2:

For gases and liquid particulates with an environmental rating of A, B, or C and for solid particulates with an environmental rating of A, where the emission rate potential is not shown in Table 2 the permissible emission rate shall be specified by the commissioner.

**Condition 91: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: 3-MANUF

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 91.2:

Compliance Certification shall include the following monitoring:



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

Parameter Monitored: PARTICULATES

Upper Limit of Monitoring: 0.05 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 92: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 92.1:

The Compliance Certification activity will be performed for:

Emission Unit: 3-MANUF

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Particulate emissions are limited to 0.05 grains/dscf. Compliance is maintained through an inspection and maintenance program for those emission sources that require operation of a control device to meet the particulate limit. The plan and records of such activities must be maintained on site. The facility must periodically monitor particulate control devices (including all dust collectors and mist collectors) by completing the following tasks on a monthly basis:

- Inspect the control device emission points for evidence of fallout and for presence of visible emissions.



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Presence of visible emissions indicates that the emission sources may not be operating properly and may need servicing.

- Inspect the particulate control devices for evidence that maintenance or replacement is needed. For those devices equipped with difference pressure measuring devices, record the current readings, compare to the appropriate maintenance plan for action levels, and take appropriate steps regarding filter media cleaning, repair, or replacement.

- Record in Cummins department or maintenance records or in a central data acquisition system, which shall be made available for Department review upon request, the following information: date, time, name of person performing the inspection, and inspection results for each inspection; and, whenever a problem is discovered, a description of the problem, cause, and corrective action taken.

- Include a summary report of problems, causes, and corrective action taken in the semi-annual compliance reporting.

Regardless of when a problem is noted, i.e., at a time other than during the monthly inspection, it must be immediately remedied.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 93: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: 3-MANUF

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 93.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



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

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a visible emissions observation of all emission points once per week, during daylight hours, except during conditions of extreme weather (fog, snow, rain). If any visible emissions are identified, corrective action is required as per the facility's maintenance procedures.

Weekly records of observations are to be maintained, including explanations for days when weather conditions are prohibitive, on-site for a period of five years.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

Parameter Monitored: OPACITY

Upper Limit of Monitoring: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

**Condition 94: Emissions from new emission sources and/or modifications
Effective between the dates of 04/24/2001 and 04/24/2006**

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 94.1:

This Condition applies to Emission Unit: 4-WASTE

Item 94.2:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 95: Emissions from new emission sources and/or modifications
not specified by Table 2
Effective between the dates of 04/24/2001 and 04/24/2006**

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



Applicable Federal Requirement: 6NYCRR 212.4(b)

Item 95.1:

This Condition applies to Emission Unit: 4-WASTE

Item 95.2:

For gases and liquid particulates with an environmental rating of A, B, or C and for solid particulates with an environmental rating of A, where the emission rate potential is not shown in Table 2 the permissible emission rate shall be specified by the commissioner.

Condition 96: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: 5-HEATG

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A boiler tune-up shall be performed annually. The owner or operator of a small boiler shall maintain a log (in the format acceptable to the Department) containing the following information: (1) The date which the equipment was adjusted; and (2) The name, title, and affiliation of the person who adjusted the equipment.

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 97: Compliance Certification

Effective between the dates of 04/24/2001 and 04/24/2006

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

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: 5-HEATG



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

Process: R01

Item 97.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Limit of Monitoring: 20 percent

Reference Test Method: EPA Method 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 98: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

Applicable Federal Requirement: 6NYCRR 227-1.3

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: 5-HEATG

Process: R02

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



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

- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

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

Reference Test Method: EPA METHOD 9

Monitoring Frequency: DAILY

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 99: Compliance Certification
Effective between the dates of 04/24/2001 and 04/24/2006

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



Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: 5-HEATG
Process: R02

Item 99.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

s20

Parameter Monitored: OPACITY

Upper Limit of Monitoring: 20 percent

Reference Test Method: EPA Method 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003



STATE ONLY ENFORCEABLE CONDITIONS

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

Condition 100: General Provisions

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable State Requirement: 6NYCRR 201-5.

Item 100.1:

This section contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 100.2:

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.

Item 100.3:

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.

Condition 101: Contaminant List

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable State Requirement: 6NYCRR 201-5.3(b)

Item 101.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 0NY998-00-0

Name: VOC

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 007446-09-5

Name: SULFUR DIOXIDE



New York State Department of Environmental Conservation

Permit ID: 9-0622-00003/00071

Facility DEC ID: 9062200003

CAS No: 000111-76-2

Name: ETHANOL, 2-BUTOXY-

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 001330-20-7

Name: XYLENE, M, O & P MIXT.

Condition 102: Air pollution prohibited

Effective between the dates of 04/24/2001 and 04/24/2006

Applicable State Requirement: 6NYCRR 211.2

Item 102.1:

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.