



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 6-4058-00004/00143
Effective Date: 01/14/2008 Expiration Date: No expiration date

Permit Issued To: RACER TRUST
401 S OLD WOODWARD AVE STE 370
BIRMINGHAM, MI 48009

Facility: GM POWERTRAIN - MASSENA PLANT
56 CHEVROLET RD | ROOSEVELT TOWN ACCESS RD
MASSENA, NY 13662

Contact: M BRENDAN MULLEN
RACER TRUST
401 S OLD WOODWARD AVE, SUITE 370
BIRMINGHAM, MI 48009
(201) 247-4890

Description:

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: LAWRENCE R AMBEAU
NYSDEC - STATE OFFICE BLDG
317 WASHINGTON ST
WATERTOWN, NY 13601

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of application for permit modification or renewal-REGION 6 HEADQUARTERS



DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3:

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



Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 6 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

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

NYSDEC Regional Permit Administrator
Region 6 Headquarters
Division of Environmental Permits
State Office Building, 317 Washington Street
Watertown, NY 13601-3787
(315) 785-2245

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: RACER TRUST
401 S OLD WOODWARD AVE STE 370
BIRMINGHAM, MI 48009

Facility: GM POWERTRAIN - MASSENA PLANT
56 CHEVROLET RD | ROOSEVELT TOWN ACCESS RD
MASSENA, NY 13662

Authorized Activity By Standard Industrial Classification Code:
3365 - ALUMINUM FOUNDRIES

Permit Effective Date: 01/14/2008
date.

Permit Expiration Date: No expiration
date.



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 201-7.2: Facility Permissible Emissions
- *2 6 NYCRR 201-7.2: Capping Monitoring Condition
- *3 6 NYCRR 201-7.2: Capping Monitoring Condition
- *4 6 NYCRR 201-7.2: Capping Monitoring Condition
- *5 6 NYCRR 201-7.2: Capping Monitoring Condition
- 6 6 NYCRR 212.4 (a): Compliance Demonstration
- 7 6 NYCRR 212.4 (a): Compliance Demonstration
- 8 6 NYCRR 212.4 (a): Compliance Demonstration
- 9 6 NYCRR 212.4 (a): Compliance Demonstration
- 10 6 NYCRR 212.4 (c): Compliance Demonstration
- 11 6 NYCRR 212.4 (c): Compliance Demonstration
- 12 6 NYCRR 212.4 (c): Compliance Demonstration
- 13 6 NYCRR 212.4 (c): Compliance Demonstration
- 14 6 NYCRR 212.4 (c): Compliance Demonstration
- 15 6 NYCRR 212.4 (c): Compliance Demonstration
- 16 6 NYCRR 212.4 (c): Compliance Demonstration
- 17 6 NYCRR 212.4 (c): Compliance Demonstration
- 18 6 NYCRR 212.6 (a): Compliance Demonstration
- 19 6 NYCRR 212.6 (a): Compliance Demonstration
- 20 6 NYCRR 212.6 (a): Compliance Demonstration
- 21 6 NYCRR 212.10 (f): Compliance Demonstration
- 22 6 NYCRR 225-1.8 (a): Compliance Demonstration
- 24 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 23 6 NYCRR 227-1.3 (a): Compliance Demonstration

Emission Unit Level

EU=1-GMFAC,Proc=PWR

- 25 6 NYCRR Subpart 227-1: Compliance Demonstration

EU=1-GMFAC,Proc=PWR,ES=PWR02

- 26 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 27 40CFR 60.7(a), NSPS Subpart A: Date of construction notification -
If a COM is not used.
- 28 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 29 40CFR 60.9, NSPS Subpart A: Availability of information.
- 30 40CFR 60.12, NSPS Subpart A: Circumvention.
- 31 40CFR 60.14, NSPS Subpart A: Modifications.
- 32 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 33 ECL 19-0301: Contaminant List
- 34 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 35 6 NYCRR Subpart 201-5: Emission Unit Definition
- 36 6 NYCRR 201-5.4 (b): Compliance Demonstration
- 37 6 NYCRR 211.2: Air pollution prohibited

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38 6 NYCRR 212.4 (a): Compliance Demonstration

39 6 NYCRR 212.4 (a): Compliance Demonstration

Emission Unit Level

40 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

41 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

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 labeling 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.

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.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR 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.

Item E: Emergency Defense - 6 NYCRR 201-1.5

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

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

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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



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

Item F: Recycling and Salvage - 6 NYCRR 201-1.7

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.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

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.

Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

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.

Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

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.

Item J: Required Emission Tests - 6 NYCRR 202-1.1



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 6 NYCRR Subpart 202-1.

Item K: Visible Emissions Limited - 6 NYCRR 211.3

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.

Item L: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item M: Permit Exclusion - ECL 19-0305

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

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

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



regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Facility Permissible Emissions
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 1.1:

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

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

CAS No: 000630-08-0 Name: CARBON MONOXIDE	PTE: 197,000 pounds per year
CAS No: 0NY075-00-0 Name: PARTICULATES	PTE: 197,000 pounds per year
CAS No: 0NY075-00-5 Name: PM-10	PTE: 197,000 pounds per year
CAS No: 0NY100-00-0 Name: HAP	PTE: 49,800 pounds per year
CAS No: 0NY210-00-0 Name: OXIDES OF NITROGEN	PTE: 197,000 pounds per year
CAS No: 0NY998-00-0 Name: VOC	PTE: 97,000 pounds per year

Condition 2: Capping Monitoring Condition
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 2.1:

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

- 6 NYCRR Subpart 201-6
- 6 NYCRR Subpart 231-2

Item 2.2:



maintained for a period of 5 years.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: RAW MATERIAL

Upper Permit Limit: 1108240 pounds

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 3: Capping Monitoring Condition
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 3.1:

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

6 NYCRR Subpart 201-6

6 NYCRR Subpart 227-2

6 NYCRR Subpart 231-2

40 CFR 52.21

Item 3.2:

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

Item 3.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 3.4:

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

Item 3.5:

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

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Item 3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY998-00-0	VOC
CAS No: 0NY100-00-0	HAP
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Facility natural gas (NG) consumption is limited to 1635 million cubic feet during any 12-month period. This limit is required in order to establish the facility as a synthetic minor source of emissions of oxides of nitrogen (NO_x), carbon monoxide (CO), particulate matter (PM), particulate matter less than 10 microns in diameter (PM-10), hazardous air pollutants (HAP), and volatile organic compounds (VOC).

Facility NG consumption shall be calculated monthly. The monthly NG consumption shall be added to the sum of NG consumed during the previous 11 months to generate a 12-month NG consumption total. Facility NG consumption shall be reported annually and all records of NG consumption shall be maintained for a period of 5 years.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NATURAL GAS

Upper Permit Limit: 1635 million cubic feet

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 4: Capping Monitoring Condition

Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 4.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to

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

- 6 NYCRR Subpart 201-6
- 6 NYCRR Subpart 227-2
- 6 NYCRR Subpart 231-2
- 40 CFR 52.21

Item 4.2:

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

Item 4.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 4.4:

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

Item 4.5:

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

Item 4.6:

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

Emission Unit: G-MCAST
Process: HVC

Regulated Contaminant(s):

- | | |
|---------------------|--------------------|
| CAS No: 000630-08-0 | CARBON MONOXIDE |
| CAS No: 0NY075-00-0 | PARTICULATES |
| CAS No: 0NY075-00-5 | PM-10 |
| CAS No: 0NY210-00-0 | OXIDES OF NITROGEN |
| CAS No: 0NY100-00-0 | HAP |
| CAS No: 0NY998-00-0 | VOC |

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC



OPERATIONS

Monitoring Description:

The high-volume cast line (HVC) is limited to 3400 hours of operation during any 12-month period. This limit is required in order to establish the facility as a synthetic minor source of emissions of oxides of nitrogen (NOx), carbon monoxide (CO), particulate matter (PM), particulate matter less than 10 microns in diameter (PM-10), hazardous air pollutants (HAP), and volatile organic compounds (VOC).

Facility shall maintain a log of monthly hours of operation for HVC. The monthly hours of operation shall be added to the sum of hours of operation during the previous 11 months to generate the 12-month total hours of operation for HVC. HVC hours of operation shall be reported annually and all records of hours of operation shall be maintained for a period of 5 years.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 3400 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 5: Capping Monitoring Condition
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 5.1:

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

6 NYCRR Subpart 201-6

6 NYCRR Subpart 227-2

6 NYCRR Subpart 231-2

40 CFR 52.21

Item 5.2:

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

Item 5.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart,

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during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 5.4:

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

Item 5.5:

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

Item 5.6:

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

Emission Unit: G-MCAST
Process: CL1

Emission Unit: G-MCAST
Process: CL2

Emission Unit: G-MCAST
Process: CL3

Emission Unit: G-MCAST
Process: CL4

Emission Unit: G-MCAST
Process: CL5

Regulated Contaminant(s):	
CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY210-00-0	OXIDES OF NITROGEN
CAS No: 0NY100-00-0	HAP
CAS No: 0NY998-00-0	VOC

Item 5.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Cast lines 1, 2, 3, 4, & 5 (CL1, CL2, CL3, CL4, & CL5) are each limited to 6400 hours of operation during any

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CAS No: 0NY998-00-0 VOC

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test of any of the emission control devices listed above shall be conducted at the request of the Department to demonstrate compliance with the control requirement of 91% of volatile organic compounds (VOC) and to check the correlation between the control efficiency and operating temperature.

Parameter Monitored: VOC

Lower Permit Limit: 91 percent reduction by weight

Reference Test Method: EPA RM 25 or equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 7: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 7.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MCAST

Process: HVC

Emission Source: HVIN2

Emission Unit: G-MCAST

Process: HVC

Emission Source: HVINC

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test of any of the emission control devices listed above shall be conducted at the request of the Department to demonstrate compliance with the control requirement of 91% of volatile organic compounds (VOC) and to check the correlation between the control efficiency and operating temperature.



Parameter Monitored: VOC
Lower Permit Limit: 91 percent reduction by weight
Reference Test Method: EPA RM 25 or equivalent
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 8: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 8.1:

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

Emission Unit: G-MCAST
Process: HVC Emission Source: HVIN2

Emission Unit: G-MCAST
Process: HVC Emission Source: HVINC

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 8.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A temperature monitoring device shall be used to continuously measure and record the temperature of the catalyst bed on the oxidizer while the cast line is operating (i.e. setting clusters, casting parts, and dumping boxes). The temperature monitoring device shall be electronically "interlocked" with operation of the cast line such that if the monitored parameter is outside the range specified below, then the emission generating activities shall cease (i.e. the cast line shall not index around its circuit, metal shall not be poured, new clusters shall not be set, and cast boxes shall not be dumped) until the oxidizer temperature, as measured by the temperature monitor, returns to within the range specified below. The temperature monitor and oxidizer shall be maintained in accordance with GM's Preventative Maintenance Inspections to ensure proper operation of the thermal catalytic oxidizer. The control logic "interlocking" the temperature monitor to cast line



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

A temperature monitoring device shall be used to continuously measure and record the temperature of the catalyst bed on the oxidizer while the cast line is operating (i.e. setting clusters, casting parts, and dumping boxes). The temperature monitoring device shall be electronically "interlocked" with operation of the cast line such that if the monitored parameter is outside the range specified below, then the emission generating activities shall cease (i.e. the cast line shall not index around its circuit, metal shall not be poured, new clusters shall not be set, and cast boxes shall not be dumped) until the oxidizer temperature, as measured by the temperature monitor, returns to within the range specified below. The temperature monitor and oxidizer shall be maintained in accordance with GM's Preventative Maintenance Inspections to ensure proper operation of the thermal catalytic oxidizer. The control logic "interlocking" the temperature monitor to cast line operation shall be checked quarterly to ensure the logic is still active and the proper ranges are programmed. The temperature monitor and cast line shall not be "interlocked" during periods of start up or shutdown. The temperature monitor shall not be required to be "interlocked" to the cast line's sand cooler/classifier system since emissions from the sand cooler/classifier system are captured and vented to a separate control device.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 550 degrees Fahrenheit

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 10: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (c)

Item 10.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MMELT

Process: ME2

Emission Source: ME202

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Emission Unit: G-MMELT
Process: ME2 Emission Source: ME203

Emission Unit: G-MMELT
Process: ME2 Emission Source: ME204

Emission Unit: G-MMELT
Process: ME2 Emission Source: ME205

Emission Unit: G-MMELT
Process: ME2 Emission Source: ME206

Emission Unit: G-MMELT
Process: ME3 Emission Source: ME301

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

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emission sources listed above shall be operated according to manufacturer's specifications and GM approved work practices in order to minimize particulate emissions.

The annual compliance certification required by this permit must include a summary of instances where GM operated any of the listed emission sources in a manner other than the manufacturer's specifications or the approved work practices.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 11: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (c)

Item 11.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Emission Unit: G-MCAST Process: HVC	Emission Point: 63027 Emission Source: HVC01
Emission Unit: G-MCAST Process: HVC	Emission Point: 63028 Emission Source: HVC02
Emission Unit: G-MCAST Process: HVC	Emission Point: 63026 Emission Source: HVC03
Emission Unit: G-MCAST Process: HVC	Emission Point: 72003 Emission Source: HVC04
Emission Unit: G-MCAST Process: HVC	Emission Point: 00084 Emission Source: HVC05
Emission Unit: G-MCAST Process: HVC	Emission Point: 00169 Emission Source: HVC06
Emission Unit: G-MCAST Process: HVC	Emission Point: 00095 Emission Source: HVC07
Emission Unit: G-MCAST Process: HVC	Emission Point: 00084 Emission Source: HVC10

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

Item 11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test of any of the emission sources listed above shall be conducted at the request of the Department to demonstrate compliance with the emission limit of 0.05 gr/dscf specified in 6 NYCRR Part 212.4(c). The listed emission sources shall be operated according to manufacturer's specifications and GM approved work practices in order to minimize emissions.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: EPA RM 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 12: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Emission Unit: G-MCAST

Process: HVC

Emission Source: HVBH1

Emission Unit: G-MCAST

Process: HVC

Emission Source: HVBH2

Emission Unit: G-MCAST

Process: HVC

Emission Source: HVBH5

Regulated Contaminant(s):

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

CAS No: 0NY075-00-0 PARTICULATES

Item 13.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A pressure monitoring device shall be used to continuously measure the pressure drop across the baghouses listed above while the cast line is operating (i.e. setting clusters, casting parts, and dumping boxes).

The pressure monitoring device shall be electronically "interlocked" with operation of the cast line such that if the monitored parameter is outside the range specified below, then the emission generating activities shall cease (i.e. the cast line shall not index around its circuit, metal shall not be poured, new clusters shall not be set, and cast boxes shall not be dumped) until the pressure drop across the baghouse, as measured by the pressure monitor, returns to within the range specified below. The pressure monitor and baghouse shall be maintained in accordance with GM's Preventative Maintenance Inspections to ensure proper operation of the baghouse. The control logic "interlocking" the pressure monitor to cast line operation shall be checked quarterly to ensure the logic is still active and the proper ranges are programmed.

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 0.3 inches of water

Upper Permit Limit: 8 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 14: Compliance Demonstration



Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 14.1:

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

Emission Unit: G-MMELT Process: ME2	Emission Point: 00028 Emission Source: ME202
Emission Unit: G-MMELT Process: ME2	Emission Point: 00029 Emission Source: ME202
Emission Unit: G-MMELT Process: ME2	Emission Point: 00079 Emission Source: ME202
Emission Unit: G-MMELT Process: ME2	Emission Point: 00030 Emission Source: ME203
Emission Unit: G-MMELT Process: ME2	Emission Point: 00031 Emission Source: ME203
Emission Unit: G-MMELT Process: ME2	Emission Point: 00080 Emission Source: ME203
Emission Unit: G-MMELT Process: ME2	Emission Point: 00155 Emission Source: ME204
Emission Unit: G-MMELT Process: ME2	Emission Point: 00156 Emission Source: ME204
Emission Unit: G-MMELT Process: ME2	Emission Point: 00157 Emission Source: ME204
Emission Unit: G-MMELT Process: ME2	Emission Point: 00158 Emission Source: ME205
Emission Unit: G-MMELT Process: ME2	Emission Point: 00159 Emission Source: ME205
Emission Unit: G-MMELT Process: ME2	Emission Point: 00160 Emission Source: ME205
Emission Unit: G-MMELT Process: ME2	Emission Point: 00191 Emission Source: ME206
Emission Unit: G-MMELT Process: ME2	Emission Point: 00192 Emission Source: ME206
Emission Unit: G-MMELT Process: ME2	Emission Point: 00193 Emission Source: ME206

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Emission Unit: G-MMELT Emission Point: 00129
Process: ME5 Emission Source: MBH01

Emission Unit: G-MMELT Emission Point: 00132
Process: ME5 Emission Source: MBH02

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

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test of any of the emission sources listed above shall be conducted at the request of the Department to demonstrate compliance with the emission limit of 0.05 gr/dscf specified in 6 NYCRR Part 212.4(c). The listed emission sources shall be operated according to manufacturer's specifications and GM approved work practices in order to minimize emissions.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: EPA RM 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 15: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 15.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MCAST Emission Point: 00116
Process: CL1 Emission Source: CL101

Emission Unit: G-MCAST Emission Point: 00125
Process: CL1 Emission Source: CL102

Emission Unit: G-MCAST Emission Point: 00117
Process: CL2 Emission Source: CL201

Emission Unit: G-MCAST Emission Point: 00126
Process: CL2 Emission Source: CL202

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Emission Unit: G-MCAST Process: CL3	Emission Point: 00118 Emission Source: CL301
Emission Unit: G-MCAST Process: CL3	Emission Point: 00127 Emission Source: CL302
Emission Unit: G-MCAST Process: CL4	Emission Point: 00133 Emission Source: CL401
Emission Unit: G-MCAST Process: CL4	Emission Point: 00134 Emission Source: CL402
Emission Unit: G-MCAST Process: CL5	Emission Point: 00098 Emission Source: CL501
Emission Unit: G-MCAST Process: CL5	Emission Point: 00097 Emission Source: CL502

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

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test of any of the emission sources listed above shall be conducted at the request of the Department to demonstrate compliance with the emission limit of 0.05 gr/dscf specified in 6 NYCRR Part 212.4(c). The listed emission sources shall be operated according to manufacturer's specifications and GM approved work practices in order to minimize emissions.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: EPA RM 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 16: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 16.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MMELT

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Process: ME5

Emission Source: MBH01

Emission Unit: G-MMELT

Process: ME5

Emission Source: MBH02

Regulated Contaminant(s):

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

CAS No: 0NY075-00-0 PARTICULATES

Item 16.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A pressure monitoring device shall be used to continuously measure the pressure drop across the cartridge collectors listed above while the spinning nozzle inert flotation (SNIF) unit is operating (i.e. hood closed over ladle with inert gas being injected into the molten metal and being dispersed by a rotating shaft). The pressure monitoring device shall be electronically "interlocked" with operation of the SNIF unit such that if the monitored parameter is outside the range specified below, then the emission generating activities shall cease until the pressure drop across the cartridge collector, as measured by the pressure monitor, returns to within the range specified below. The pressure monitor and cartridge collector shall be maintained in accordance with GM₄s Preventative Maintenance Inspections to ensure proper operation of the cartridge collector. The control logic "interlocking" the pressure monitor to SNIF unit operation shall be checked quarterly to ensure the logic is still active and the proper ranges are programmed.

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 0.3 inches of water

Upper Permit Limit: 8 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 17: Compliance Demonstration

Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (c)

Item 17.1:



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

Emission Unit: G-MCAST Process: CL1	Emission Source: C1BH1
Emission Unit: G-MCAST Process: CL1	Emission Source: C1BH2
Emission Unit: G-MCAST Process: CL2	Emission Source: C2BH1
Emission Unit: G-MCAST Process: CL2	Emission Source: C2BH2
Emission Unit: G-MCAST Process: CL3	Emission Source: C3BH1
Emission Unit: G-MCAST Process: CL3	Emission Source: C3BH2
Emission Unit: G-MCAST Process: CL4	Emission Source: C4BH1
Emission Unit: G-MCAST Process: CL4	Emission Source: C4BH2
Emission Unit: G-MCAST Process: CL5	Emission Source: C5BH1
Emission Unit: G-MCAST Process: CL5	Emission Source: C5BH2
Regulated Contaminant(s): CAS No: 0NY075-00-5 PM-10 CAS No: 0NY075-00-0 PARTICULATES	

Item 17.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A pressure monitoring device shall be used to continuously measure the pressure drop across the baghouses listed above while the cast line is operating (i.e. setting clusters, casting parts, and dumping boxes). The pressure monitoring device shall be electronically "interlocked" with operation of the cast line such that if the monitored parameter is outside the range specified below, then the emission generating activities shall cease (i.e. the cast line shall not index around its circuit,



metal shall not be poured, new clusters shall not be set, and cast boxes shall not be dumped) until the pressure drop across the baghouse, as measured by the pressure monitor, returns to within the range specified below. The pressure monitor and baghouse shall be maintained in accordance with GM's Preventative Maintenance Inspections to ensure proper operation of the baghouse. The control logic "interlocking" the pressure monitor to cast line operation shall be checked quarterly to ensure the logic is still active and the proper ranges are programmed.

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 0.3 inches of water

Upper Permit Limit: 8 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED RANGE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 18: Compliance Demonstration

Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 18.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MCAST Process: HVC	Emission Point: 63027 Emission Source: HVC01
Emission Unit: G-MCAST Process: HVC	Emission Point: 63028 Emission Source: HVC02
Emission Unit: G-MCAST Process: HVC	Emission Point: 63026 Emission Source: HVC03
Emission Unit: G-MCAST Process: HVC	Emission Point: 72003 Emission Source: HVC04
Emission Unit: G-MCAST Process: HVC	Emission Point: 00084 Emission Source: HVC05
Emission Unit: G-MCAST Process: HVC	Emission Point: 00169 Emission Source: HVC06
Emission Unit: G-MCAST Process: HVC	Emission Point: 00095 Emission Source: HVC07

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Emission Unit: G-MCAST
Process: HVC

Emission Point: 00084
Emission Source: HVC10

Item 18.2:

Compliance Demonstration 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 having an average opacity during any six consecutive minutes of 20% or greater from any process emission source, except only the emissions of uncombined water. An EPA reference method 9 visible emissions observation shall be conducted on the emission sources listed above at least once every five (5) years.

Additionally, an EPA reference method 9 visible emissions observation shall be conducted on any of the emission sources listed above at the request of the Department to demonstrate compliance with the 20% opacity requirement specified in 6 NYCRR Part 212.6(a).

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 19: Compliance Demonstration

Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Item 19.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MCAST
Process: CL1

Emission Point: 00116
Emission Source: CL101

Emission Unit: G-MCAST
Process: CL1

Emission Point: 00125
Emission Source: CL102

Emission Unit: G-MCAST
Process: CL2

Emission Point: 00117
Emission Source: CL201

Emission Unit: G-MCAST
Process: CL2

Emission Point: 00126
Emission Source: CL202



Emission Unit: G-MCAST Process: CL3	Emission Point: 00118 Emission Source: CL301
Emission Unit: G-MCAST Process: CL3	Emission Point: 00127 Emission Source: CL302
Emission Unit: G-MCAST Process: CL4	Emission Point: 00133 Emission Source: CL401
Emission Unit: G-MCAST Process: CL4	Emission Point: 00134 Emission Source: CL402
Emission Unit: G-MCAST Process: CL5	Emission Point: 00098 Emission Source: CL501
Emission Unit: G-MCAST Process: CL5	Emission Point: 00097 Emission Source: CL502

Item 19.2:

Compliance Demonstration 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 having an average opacity during any six consecutive minutes of 20% or greater from any process emission source, except only the emissions of uncombined water. An EPA reference method 9 visible emissions observation shall be conducted on the emission sources listed above at least once every five (5) years.

Additionally, an EPA reference method 9 visible emissions observation shall be conducted on any of the emission sources listed above at the request of the Department to demonstrate compliance with the 20% opacity requirement specified in 6 NYCRR Part 212.6(a).

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA RM 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 20: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 20.1:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



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

Emission Unit: G-MMELT Process: ME2	Emission Point: 00028 Emission Source: ME202
Emission Unit: G-MMELT Process: ME2	Emission Point: 00029 Emission Source: ME202
Emission Unit: G-MMELT Process: ME2	Emission Point: 00079 Emission Source: ME202
Emission Unit: G-MMELT Process: ME2	Emission Point: 00030 Emission Source: ME203
Emission Unit: G-MMELT Process: ME2	Emission Point: 00031 Emission Source: ME203
Emission Unit: G-MMELT Process: ME2	Emission Point: 00080 Emission Source: ME203
Emission Unit: G-MMELT Process: ME2	Emission Point: 00155 Emission Source: ME204
Emission Unit: G-MMELT Process: ME2	Emission Point: 00156 Emission Source: ME204
Emission Unit: G-MMELT Process: ME2	Emission Point: 00157 Emission Source: ME204
Emission Unit: G-MMELT Process: ME2	Emission Point: 00158 Emission Source: ME205
Emission Unit: G-MMELT Process: ME2	Emission Point: 00159 Emission Source: ME205
Emission Unit: G-MMELT Process: ME2	Emission Point: 00160 Emission Source: ME205
Emission Unit: G-MMELT Process: ME2	Emission Point: 00191 Emission Source: ME206
Emission Unit: G-MMELT Process: ME2	Emission Point: 00192 Emission Source: ME206
Emission Unit: G-MMELT Process: ME2	Emission Point: 00193 Emission Source: ME206
Emission Unit: G-MMELT Process: ME5	Emission Point: 00129 Emission Source: MBH01
Emission Unit: G-MMELT	Emission Point: 00132



Process: ME5

Emission Source: MBH02

Item 20.2:

Compliance Demonstration 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 having an average opacity during any six consecutive minutes of 20% or greater from any process emission source, except only the emissions of uncombined water. An EPA reference method 9 visible emissions observation shall be conducted on the emission sources listed above at least once every five (5) years.

Additionally, an EPA reference method 9 visible emissions observation shall be conducted on any of the emission sources listed above at the request of the Department to demonstrate compliance with the 20% opacity requirement specified in 6 NYCRR Part 212.6(a).

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 21: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.10 (f)

Item 21.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MMOLD

Process: BE1

Emission Source: BE106

Emission Unit: G-MMOLD

Process: BE1

Emission Source: BE107

Emission Unit: G-MMOLD

Process: BE1

Emission Source: BE108

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 21.2:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00004/00143

Facility DEC ID: 6405800004



Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The pentane reduction chambers (Process BE1, Emission Sources BE106, BE106, & BE108) are operating under a VOC RACT variance. Reduction of VOC emissions below the current level has been demonstrated to the Department to be economically infeasible.

Facility must continue to investigate VOC RACT strategies for this process and submit an updated VOC RACT demonstration at the request of the Department. The demonstration must include an evaluation of the possibility of reformulation, abatement technology and/or process modification.

This process specific RACT variance has been submitted to the EPA for their review, approval and inclusion in the State Implementation Plan (SIP).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 22: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 225-1.8 (a)

Item 22.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person will sell, offer for sale, purchase or use any distillate oil fuel which contains sulfur in a quantity exceeding 1.5% by weight. Facility shall review and retain supplier certification for each delivery of distillate fuel oil.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

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Upper Permit Limit: 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: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2009.
Subsequent reports are due every 12 calendar month(s).

Condition 24: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

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

Item 24.1:

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

Emission Unit: 1-GMFAC	Emission Point: 00113
Process: PWR	Emission Source: PWR01
Emission Unit: 1-GMFAC	Emission Point: 00172
Process: PWR	Emission Source: PWR02

Item 24.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Opacity must be less than 20% (6-minute average) except
for one 6-minute period per hour of not more than 27%.
The Department reserves the right to perform or require
the performance of a method 9 opacity observation at any
time during facility operation.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA RM 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 23: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

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

Item 23.1:

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



Emission Unit: 1-GMFAC
Process: PWR

Emission Point: 00113
Emission Source: PWR01

Emission Unit: 1-GMFAC
Process: PWR

Emission Point: 00172
Emission Source: PWR02

Item 23.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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Facility DEC ID: 6405800004



DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

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

Condition 25: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 227-1

Item 25.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-GMFAC

Process: PWR

Item 25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An annual boiler tune up shall be conducted on each unit listed in accordance with guidance document DAR-5. A log shall be maintained containing at least the following information:

- 1) The date in which the equipment was adjusted,
- 2) The name, title, and affiliation of the person who adjusted the equipment.

No more than 12 months shall pass between tune ups. In the annual certification, the responsible official shall certify to the fact that the tune up was done within the 12 month window. Deviations from this requirement shall be reported in writing within 7 working days.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2009.

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

Condition 26: EPA Region 2 address.
Effective between the dates of 01/14/2008 and Permit Expiration Date



Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 26.1:

This Condition applies to Emission Unit: 1-GMFAC
Process: PWR Emission
Source: PWR02

Item 26.2:

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

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

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

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

**Condition 27: Date of construction notification - If a COM is not used.
Effective between the dates of 01/14/2008 and Permit Expiration Date**

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

Item 27.1:

This Condition applies to Emission Unit: 1-GMFAC
Process: PWR Emission
Source: PWR02

Item 27.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may



increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.

Condition 28: Recordkeeping requirements.
Effective between the dates of 01/14/2008 and Permit Expiration Date

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

Item 28.1:

This Condition applies to Emission Unit: 1-GMFAC
Process: PWR Emission
Source: PWR02

Item 28.2:

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

Condition 29: Availability of information.
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 29.1:

This Condition applies to Emission Unit: 1-GMFAC
Process: PWR Emission
Source: PWR02

Item 29.2:

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

Condition 30: Circumvention.
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 30.1:

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This Condition applies to Emission Unit: 1-GMFAC
Process: PWR Emission
Source: PWR02

Item 30.2:

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

Condition 31: Modifications.
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 31.1:

This Condition applies to Emission Unit: 1-GMFAC
Process: PWR Emission
Source: PWR02

Item 31.2:

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

Condition 32: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.48c(g), NSPS Subpart Dc

Item 32.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-GMFAC
Process: PWR Emission Source: PWR02

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Monitoring Frequency: DAILY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 3/1/2009.
Subsequent reports are due every 12 calendar month(s).





STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 33: Contaminant List

Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 33.1:

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

CAS No: 000100-42-5

Name: STYRENE

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

CAS No: 0NY100-00-0

Name: HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

Condition 34: Unavoidable noncompliance and violations

Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 34.1:

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

- (a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification



provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

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

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

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

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 35: Emission Unit Definition
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 35.1:

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

Emission Unit: 1-GMFAC

Emission Unit Description:

This emission unit comprises the facility wide services including the miscellaneous sand handling operations, heat treating ovens, boilers, and roadways.

Building(s): 01



Item 35.2:

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

Emission Unit: G-MCAST

Emission Unit Description:

Casting operations: this emission unit includes module aluminum cast lines #1 through #5, the high volume cast line (HVC), and the machining centers. Sand, mullite or equivalent material may be used at any of the cast lines. Based on manufacturer's data, emission of particulate matter (i.e. silt/fines content) from use of these materials is equivalent, and will not affect the operating capacity of these cast lines. Any salt fluxing agent may be used in the cast lines provided the Air-Guide 1 annual and short term guideline concentrations for hydrogen chloride and hydrogen fluoride (and any other air toxic generated from the fluxing operations that the facility is already permitted to emit) at and beyond the fenceline of the facility are not exceeded, and additional operating restrictions or controls are not needed to ensure compliance with the guideline concentrations for these toxics based on the appropriate modeling.

Building(s): 01

Item 35.3:

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

Emission Unit: G-MMELT

Emission Unit Description:

This emission unit comprises the aluminum melting operations including the aluminum reverberatory furnaces, dry hearth furnace, jet melter, dross bins and spinning nozzle inert flotation (SNIF) in-line fluxing units. Any salt fluxing agent may be used in the reverberatory furnaces, dry hearth furnace, and "jet" melter provided the Air-Guide 1 annual and short-term guideline concentrations for hydrogen chloride (and any other air toxic generated from the fluxing operations that the facility is already permitted to emit) at and beyond the fenceline of the facility are not exceeded, and additional operating restrictions or controls are not needed to ensure compliance with the guideline concentrations for these toxics based on appropriate modeling. Any salt fluxing agent may be used in the reverberatory furnaces, dry hearth furnace, and "jet" melter provided the ambient air quality standards for gaseous fluorides contained in 6 NYCRR Part 257-8 at and beyond the fenceline of the facility are not exceeded, and additional operating restrictions or controls are not needed to ensure compliance with the ambient air quality standards for gaseous fluorides based on appropriate modeling.

Building(s): 01



Item 35.4:

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

Emission Unit: G-MMOLD

Emission Unit Description:

This emission unit comprises the molding operations including bead expansion and cast line molding. Each bead expander vents to a carbon canister for in plant odor control. These carbon canisters are not required by any applicable federal or state requirement. The mold ageing ovens can be used for several functions. The primary function is to reduce the amount of pentane in the foam patterns that will be used in the cast lines. The secondary function of the ageing ovens is to "reduce" off-spec beads for disposal. This process removes all the pentane in the beads, and thus reduces the bead volume, making handling and disposal easier. The pentane emissions from either of these processes are equivalent. Polystyrene beads containing trace amounts of bromine may be used at the facility. Air-Guide 1 modeling analysis indicates that the trace amounts of bromine and hydrogen bromide emitted from the use of these beads will not exceed Air-Guide 1 guideline concentrations at or beyond the fenceline.

Building(s): 01

Condition 36: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 201-5.4 (b)

Item 36.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The objective of this condition is to provide operational flexibility at the GM Powertrain facility by building into the permit the capability to make certain changes provided for under 6 NYCRR Part 201-5.4(b). Changes made at the facility that meet the requirements of this condition are not subject to the permit modification provisions under 6 NYCRR Part 201-5.4(a).

(1) Certain changes and modifications which meet the criteria under subparagraphs (i)-(iii) of this paragraph may be conducted without prior approval of the department and shall not require modification of the permit. The



facility owner and/or operator must however maintain records of the date and description of such changes and make such records available for review by department representatives upon request.

(i) Changes that do not cause emissions to exceed any emission limitation contained in regulations or applicable requirements under Article 19, Title 3 of the New York State Environmental Conservation Law (ECL).

(ii) Changes which do not cause the source to become subject to any additional regulations or requirements under Article 19, Title 3 of the New York State Environmental Conservation Law (ECL).

(iii) Changes that do not seek to establish or modify a federally-enforceable emission cap or limit.

(2) In addition to the recordkeeping required under paragraph (1) of this subdivision, the permittee must notify the department in writing at least 30 calendar days in advance of making changes involving:

(i) the relocation of emission points within a facility;

(ii) the emission of any air pollutant not previously authorized or emitted in accordance with a permit issued by the department;

(iii) the installation or alteration of any air cleaning installations, device or control equipment.

(3) The department may require a permit modification to impose applicable requirements or permit conditions if it determines that changes proposed pursuant to notification under paragraph (2) of this subdivision do not meet the criteria under paragraph (1) of this subdivision or the change may have a significant air quality impact. In such cases the department may require that the permittee not undertake the proposed change until it completes a more detailed review of the change for air quality impacts and/or applicable requirements. The department shall respond to the permittee in writing with such a determination within 15 days of receipt of the 30 day advance notification from the permittee. The department's determination shall include a listing of information necessary to further review the proposed change.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 37: Air pollution prohibited
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 37.1:

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.

Condition 38: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 38.1:

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

Emission Unit: G-MCAST Process: CL1	Emission Source: C1INC
Emission Unit: G-MCAST Process: CL2	Emission Source: C2INC
Emission Unit: G-MCAST Process: CL3	Emission Source: C3INC
Emission Unit: G-MCAST Process: CL4	Emission Source: C4INC
Emission Unit: G-MCAST Process: CL5	Emission Source: C5INC
Regulated Contaminant(s): CAS No: 000100-42-5	STYRENE

Item 38.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
A stack test of any of the emission control devices listed above shall be conducted at the request of the Department to demonstrate compliance with the control

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requirement of 97% reduction of styrene and to check the correlation between the control efficiency and operating temperature.

Parameter Monitored: STYRENE

Lower Permit Limit: 97 percent reduction by weight

Reference Test Method: EPA RM 18 or equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 39: Compliance Demonstration
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 39.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: G-MCAST

Process: HVC

Emission Source: HVIN2

Emission Unit: G-MCAST

Process: HVC

Emission Source: HVINC

Regulated Contaminant(s):

CAS No: 000100-42-5 STYRENE

Item 39.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test of any of the emission control devices listed above shall be conducted at the request of the Department to demonstrate compliance with the control requirement of 97% reduction of styrene and to check the correlation between the control efficiency and operating temperature.

Parameter Monitored: STYRENE

Lower Permit Limit: 97 percent reduction by weight

Reference Test Method: EPA RM 18 or equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



**** Emission Unit Level ****

Condition 40: Emission Point Definition By Emission Unit
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 40.1:

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

Emission Unit: 1-GMFAC

Emission Point: 00090	Height (ft.): 49	Length (in.): 36	Width (in.): 36
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00113	Height (ft.): 55	Length (in.): 36	Width (in.): 44
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00131	Height (ft.): 67	Diameter (in.): 26	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00172	Height (ft.): 67	Diameter (in.): 44	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01

Item 40.2:

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

Emission Unit: G-MCAST

Emission Point: 00084	Height (ft.): 49	Diameter (in.): 42	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00095	Height (ft.): 67	Diameter (in.): 34	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00097	Height (ft.): 67	Diameter (in.): 20	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00098	Height (ft.): 67	Diameter (in.): 34	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00116			

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Height (ft.): 75 NYTMN (km.): 4980.9	Diameter (in.): 34 NYTME (km.): 519.6	Building: 01
Emission Point: 00117 Height (ft.): 75 NYTMN (km.): 4980.9	Diameter (in.): 34 NYTME (km.): 519.6	Building: 01
Emission Point: 00118 Height (ft.): 75 NYTMN (km.): 4980.9	Diameter (in.): 34 NYTME (km.): 519.6	Building: 01
Emission Point: 00125 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 20 NYTME (km.): 519.6	Building: 01
Emission Point: 00126 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 20 NYTME (km.): 519.6	Building: 01
Emission Point: 00127 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 20 NYTME (km.): 519.6	Building: 01
Emission Point: 00133 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 34 NYTME (km.): 519.6	Building: 01
Emission Point: 00134 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 20 NYTME (km.): 519.6	Building: 01
Emission Point: 00169 Height (ft.): 70 NYTMN (km.): 4980.9	Diameter (in.): 36 NYTME (km.): 519.6	Building: 01
Emission Point: 63026 Height (ft.): 68 NYTMN (km.): 4980.9	Diameter (in.): 38 NYTME (km.): 519.6	Building: 01
Emission Point: 63027 Height (ft.): 68 NYTMN (km.): 4980.9	Diameter (in.): 38 NYTME (km.): 519.6	Building: 01
Emission Point: 63028 Height (ft.): 68 NYTMN (km.): 4980.9	Diameter (in.): 38 NYTME (km.): 519.6	Building: 01
Emission Point: 72003 Height (ft.): 62 NYTMN (km.): 4980.9	Diameter (in.): 36 NYTME (km.): 519.6	Building: 01

Item 40.3:



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

Emission Unit: G-MMELT			
Emission Point: 00028	Height (ft.): 63	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00029	Height (ft.): 63	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00030	Height (ft.): 63	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00031	Height (ft.): 63	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00079	Height (ft.): 63	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00080	Height (ft.): 63	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00129	Height (ft.): 26	Diameter (in.): 38	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00132	Height (ft.): 26	Diameter (in.): 38	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00153	Height (ft.): 67	Diameter (in.): 42	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00154	Height (ft.): 67	Diameter (in.): 26	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00155	Height (ft.): 67	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01
Emission Point: 00156	Height (ft.): 67	Diameter (in.): 36	
	NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01



Emission Point: 00157			
Height (ft.): 67	Diameter (in.): 36		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00158			
Height (ft.): 67	Diameter (in.): 36		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00159			
Height (ft.): 67	Diameter (in.): 36		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00160			
Height (ft.): 67	Diameter (in.): 36		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00167			
Height (ft.): 67	Diameter (in.): 36		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00191			
Height (ft.): 72	Diameter (in.): 58		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00192			
Height (ft.): 72	Diameter (in.): 32		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00193			
Height (ft.): 72	Diameter (in.): 32		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	

Item 40.4:

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

Emission Unit: G-MMOLD			
Emission Point: 00100			
Height (ft.): 30	Diameter (in.): 12		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00103			
Height (ft.): 67	Diameter (in.): 10		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00104			
Height (ft.): 67	Diameter (in.): 10		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	
Emission Point: 00105			
Height (ft.): 67	Diameter (in.): 10		
NYTMN (km.): 4980.9	NYTME (km.): 519.6	Building: 01	

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Emission Point: 00106 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00109 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00130 Height (ft.): 30 NYTMN (km.): 4980.9	Diameter (in.): 12 NYTME (km.): 519.6	Building: 01
Emission Point: 00135 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00136 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00137 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00138 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00139 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00140 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00141 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00142 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00143 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00144 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01



Emission Point: 00145 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00146 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00147 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00148 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00149 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00150 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00151 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00152 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00170 Height (ft.): 30 NYTMN (km.): 4980.9	Diameter (in.): 12 NYTME (km.): 519.6	Building: 01
Emission Point: 00173 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 18 NYTME (km.): 519.6	Building: 01
Emission Point: 00174 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 18 NYTME (km.): 519.6	Building: 01
Emission Point: 00175 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01
Emission Point: 00176 Height (ft.): 67 NYTMN (km.): 4980.9	Diameter (in.): 10 NYTME (km.): 519.6	Building: 01

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Emission Point: 00177
Height (ft.): 67 Diameter (in.): 10
NYTMN (km.): 4980.9 NYTME (km.): 519.6 Building: 01

Emission Point: 00178
Height (ft.): 67 Diameter (in.): 10
NYTMN (km.): 4980.9 NYTME (km.): 519.6 Building: 01

Emission Point: 00188
Height (ft.): 67 Diameter (in.): 10
NYTMN (km.): 4980.9 NYTME (km.): 519.6 Building: 01

Condition 41: Process Definition By Emission Unit
Effective between the dates of 01/14/2008 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 41.1:

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

Emission Unit: 1-GMFAC
Process: HTG Source Classification Code: 3-04-001-12
Process Description:
This process consists of facility heat treating,
including the CAN-ENG heat treating oven #1 (EP 00131) and
the PIFCO heat treating oven (EP 00090).

Emission Source/Control: HTG01 - Process

Emission Source/Control: HTG02 - Process

Item 41.2:

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

Emission Unit: 1-GMFAC
Process: PWR Source Classification Code: 1-03-007-99
Process Description:
This process consists of combustion devices including
process boilers #1 & 2 (EP 00113 and 00172).

Emission Source/Control: PWR01 - Combustion
Design Capacity: 57 million BTUs per hour

Emission Source/Control: PWR02 - Combustion
Design Capacity: 57 million BTUs per hour

Item 41.3:

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

Emission Unit: 1-GMFAC
Process: RDW Source Classification Code: 3-03-008-34



Process Description: This process consists of the facility roadways.

Emission Source/Control: ROADS - Process

Item 41.4:

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

Emission Unit: 1-GMFAC

Process: SND

Source Classification Code: 3-04-003-50

Process Description:

This process consists of facility heat treating including the CAN-ENG heat treating oven #1 (EP 00131) and the PIFCO heat treating oven (EP 00090). This process also includes the sand truck dump and multiple sand/debris piles.

Emission Source/Control: SND01 - Process

Emission Source/Control: SND02 - Process

Item 41.5:

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

Emission Unit: G-MCAST

Process: CL1

Source Classification Code: 3-04-001-15

Process Description:

This process includes aluminum cast line #1 (EP 00116) and associated rotary drum with 16 MMBtu/hr burner, cast line #1 cooler/classifier (EP 00125), and cast line #1 cluster set machine.

Emission Source/Control: C1BH1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C1BH2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C1BH3 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C1INC - Control
Control Type: FABRIC FILTER

Emission Source/Control: CL101 - Process

Emission Source/Control: CL102 - Process

Emission Source/Control: CL104 - Process

Item 41.6:

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

Emission Unit: G-MCAST



Process: CL2 Source Classification Code: 3-04-001-15

Process Description:

This process includes aluminum cast line #2 (EP 00117) and associated rotary drum with 16 MMBtu/hr burner, cast line #2 cooler/classifier (EP 00126), and cast line #2 cluster set machine.

Emission Source/Control: C2BH1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C2BH2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C2BH3 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C2INC - Control
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: CL201 - Process

Emission Source/Control: CL202 - Process

Emission Source/Control: CL204 - Process

Item 41.7:

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

Emission Unit: G-MCAST

Process: CL3 Source Classification Code: 3-04-001-15

Process Description:

This process includes aluminum cast line #3 (EP 00118) and associated rotary drum with 16 MMBtu/hr burner, cast line #3 cooler/classifier (EP 00127), and cast line #3 cluster set machine.

Emission Source/Control: C3BH1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C3BH2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C3BH3 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C3INC - Control
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: CL301 - Process

Emission Source/Control: CL302 - Process



Emission Source/Control: CL304 - Process

Item 41.8:

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

Emission Unit: G-MCAST

Process: CL4

Source Classification Code: 3-04-001-15

Process Description:

This process includes aluminum cast line #4 (EP 00133) and associated rotary drum with 16 MMBtu/hr burner, cast line #4 cooler/classifier (EP 00134), and cast line #4 cluster set machine.

Emission Source/Control: C4BH1 - Control

Control Type: FABRIC FILTER

Emission Source/Control: C4BH2 - Control

Control Type: FABRIC FILTER

Emission Source/Control: C4BH3 - Control

Control Type: FABRIC FILTER

Emission Source/Control: C4INC - Control

Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: CL401 - Process

Emission Source/Control: CL402 - Process

Emission Source/Control: CL404 - Process

Item 41.9:

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

Emission Unit: G-MCAST

Process: CL5

Source Classification Code: 3-04-001-15

Process Description:

This process includes cast line #5 (EP 00098) and associated rotary drum with 16 MMBtu/hr burner, cast line #5 cooler/classifier (EP 00097), and cast line #5 cluster set machine.

Emission Source/Control: C5BH1 - Control

Control Type: FABRIC FILTER

Emission Source/Control: C5BH2 - Control

Control Type: FABRIC FILTER

Emission Source/Control: C5BH3 - Control

Control Type: FABRIC FILTER

Emission Source/Control: C5INC - Control



Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: CL501 - Process

Emission Source/Control: CL502 - Process

Emission Source/Control: CL504 - Process

Item 41.10:

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

Emission Unit: G-MCAST

Process: HVC

Source Classification Code: 3-04-001-15

Process Description:

This process consists of the high volume cast (HVC) line and its associated sources, including the R-54 & R-55 pouring furnaces (EP 63027), the HVC line #1 & 2 furnace pouring ladle stations (EP 63026 & 63028), the HVC line cooling conveyor (EP 72003) the flask sand filling machine booth (EP 00084), the HVC line rotary drum system (EP 00095), the HVC line sand cooler/classifier (EP 00084), and the HVC line catalytic oxidizer #2 (EP 00169).

Emission Source/Control: HVBH1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: HVBH2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: HVBH5 - Control
Control Type: FABRIC FILTER

Emission Source/Control: HVIN2 - Control
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: HVINC - Control
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: HVC01 - Process

Emission Source/Control: HVC02 - Process

Emission Source/Control: HVC03 - Process

Emission Source/Control: HVC04 - Process

Emission Source/Control: HVC05 - Process

Emission Source/Control: HVC06 - Process

Emission Source/Control: HVC07 - Process



Emission Source/Control: HVC10 - Process

Item 41.11:

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

Emission Unit: G-MCAST

Process: MAC

Source Classification Code: 3-04-001-99

Process Description:

This process consists of the aluminum machining centers. These sources vent internally, use cutting fluid that lubricates and cools the cutting machines as well as suppressing particulate emissions. There are no requirements applicable to the aluminum machining centers.

Emission Source/Control: MAC01 - Process

Emission Source/Control: MAC02 - Process

Emission Source/Control: MAC03 - Process

Emission Source/Control: MAC04 - Process

Emission Source/Control: MAC05 - Process

Emission Source/Control: MAC06 - Process

Emission Source/Control: MAC07 - Process

Emission Source/Control: MAC08 - Process

Item 41.12:

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

Emission Unit: G-MMELT

Process: ME2

Source Classification Code: 3-04-001-03

Process Description:

This process includes the aluminum reverberatory furnaces R-7, R-8, R-9 and R-10, and the dry hearth furnace (EP 00028, 00029, & 00079 for emission source ME202; EP 00030, 00031, & 00080 for emission source ME203; EP 00155, 00156, & 00157 for ME204; EP 00158, 00159, & 00160 for emission source ME205; and EP 00191, 00192, & 00193 for emission source ME206).

Emission Source/Control: ME202 - Process

Emission Source/Control: ME203 - Process

Emission Source/Control: ME204 - Process



Emission Source/Control: ME205 - Process

Emission Source/Control: ME206 - Process

Item 41.13:

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

Emission Unit: G-MMELT

Process: ME3

Source Classification Code: 3-04-001-01

Process Description:

This process includes the aluminum jet melter (Ep 00153, 00154, & 00167).

Emission Source/Control: ME301 - Process

Item 41.14:

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

Emission Unit: G-MMELT

Process: ME5

Source Classification Code: 3-04-001-07

Process Description:

This process includes the spinning nozzle inert flotation (SNIF) in-line fluxing units #1 - 4 (EP 00129 for emission source ME503 and 00132 for emission source ME504).

Emission Source/Control: MBH01 - Control

Control Type: FABRIC FILTER

Emission Source/Control: MBH02 - Control

Control Type: FABRIC FILTER

Emission Source/Control: ME503 - Process

Emission Source/Control: ME504 - Process

Item 41.15:

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

Emission Unit: G-MMOLD

Process: BE1

Source Classification Code: 3-04-001-32

Process Description:

This process consists of the facility's bead expansion operations, including bead pre-expanders #1 - 3, bead screener, pentane reduction chambers #1 - 3 (EP 00100, 00130, 00170), & bead storage/aging hoppers.

Emission Source/Control: BE101 - Process

Emission Source/Control: BE102 - Process

Emission Source/Control: BE103 - Process



Emission Source/Control: BE105 - Process

Emission Source/Control: BE106 - Process

Emission Source/Control: BE107 - Process

Emission Source/Control: BE108 - Process

Emission Source/Control: BE110 - Process

Item 41.16:

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

Emission Unit: G-MMOLD

Process: CLM

Source Classification Code: 3-04-001-32

Process Description:

This process includes module drying ovens #1 - 6 (EP 00151, 00152, 00173, 00174, 00175, & 00177), module aging ovens #1 - 16 (Ep 00135, 00136, 00137, 00138, 00139, 00140, 00141, 00142, 00143, 00144, 00145, 00146, 00147, 00148, 00149, & 00150), module mold machines #1 -19. There are no requirements applicable to the sources in this process.

Emission Source/Control: CLM07 - Process

Emission Source/Control: CLM08 - Process

Emission Source/Control: CLM09 - Process

Emission Source/Control: CLM10 - Process

Emission Source/Control: CLM11 - Process

Emission Source/Control: CLM12 - Process

Emission Source/Control: CLM13 - Process

Emission Source/Control: CLM14 - Process

Emission Source/Control: CLM15 - Process

Emission Source/Control: CLM16 - Process

Emission Source/Control: CLM17 - Process

Emission Source/Control: CLM18 - Process

Emission Source/Control: CLM19 - Process



- Emission Source/Control: CLM20 - Process
- Emission Source/Control: CLM21 - Process
- Emission Source/Control: CLM22 - Process
- Emission Source/Control: CLM23 - Process
- Emission Source/Control: CLM24 - Process
- Emission Source/Control: CLM25 - Process
- Emission Source/Control: CLM26 - Process
- Emission Source/Control: CLM27 - Process
- Emission Source/Control: CLM28 - Process
- Emission Source/Control: CLM29 - Process
- Emission Source/Control: CLM30 - Process
- Emission Source/Control: CLM31 - Process
- Emission Source/Control: CLM32 - Process
- Emission Source/Control: CLM33 - Process
- Emission Source/Control: CLM34 - Process
- Emission Source/Control: CLM36 - Process
- Emission Source/Control: CLM37 - Process
- Emission Source/Control: CLM38 - Process
- Emission Source/Control: CLM39 - Process

Item 41.17:

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

Emission Unit: G-MMOLD
Process: FTC Source Classification Code: 3-04-001-99
Process Description:
This process includes foam tie-bar cutters #1 - 7. There are no requirements applicable to the sources in this process.

- Emission Source/Control: FTC01 - Process
- Emission Source/Control: FTC02 - Process

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Emission Source/Control: FTC03 - Process

Emission Source/Control: FTC04 - Process

Emission Source/Control: FTC05 - Process

Emission Source/Control: FTC06 - Process

Emission Source/Control: FTC07 - Process

Item 41.18:

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

Emission Unit: G-MMOLD

Process: HLM

Source Classification Code: 3-04-001-32

Process Description:

This process consists of the high volume cast line (HVC) molding operations, including the HVC line mold machines #1 - 12, HVC line aging/drying ovens #1 - 8 (EP 00103, 00104, 00105, 00106, 00109, 00176, 00178, & 00188).

Emission Source/Control: HLM03 - Process

Emission Source/Control: HLM04 - Process

Emission Source/Control: HLM08 - Process

Emission Source/Control: HLM09 - Process

Emission Source/Control: HLM13 - Process

Emission Source/Control: HLM14 - Process

Emission Source/Control: HLM15 - Process

Emission Source/Control: HLM16 - Process

Emission Source/Control: HLM21 - Process

Emission Source/Control: HLM22 - Process

Emission Source/Control: HLM23 - Process

Emission Source/Control: HLM24 - Process

Emission Source/Control: HLM25 - Process

Emission Source/Control: HLM26 - Process



Emission Source/Control: HLM27 - Process

Emission Source/Control: HLM28 - Process

Emission Source/Control: HLM29 - Process

Emission Source/Control: HLM30 - Process

Emission Source/Control: HLM31 - Process

Emission Source/Control: HLM32 - Process

