

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - RENEWAL

PERMITTEE

Heick Die Casting Corp.
Attn: Eric A. Van Clevon
6550 West Diversey Avenue
Chicago, Illinois 60707

Application No.: 74060001

I.D. No.: 031600ELE

Applicant's Designation:

Date Received: March 19, 2001

Subject: Die Casting Operation

Date Issued: December 2, 2002

Expiration Date: December 2, 2007

Location: 6550 West Diversey Avenue, Chicago, 60707

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of 8 gas-fired melting furnaces, 20 die casting machines, and 1 Safety-Kleen cold cleaner as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., VOM less than 25 tons per year). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes the all operating permits issued for this location.
- 2a. Emissions and operation of the die casting operations shall not exceed the following limits:

<u>Emission Unit</u>	<u>Throughput</u>	<u>Pollutant</u>	<u>Emissions</u>		
			<u>Emission Rate</u>		<u>(TPY)</u>
8 Gas-Fired Furnaces	35,000 TPY of Aluminum, 12 mmBtu/hr	PM NO _x CO	1.9 0.10 0.084	lb/ton lb/mmBtu lb/mmBtu	33.25 5.26 4.42
20 Die Casting Machines	85,300 gal/yr of Die Lube, 2 mmBtu/hr	VOM PM NO _x CO	3.95 2.00 0.100 0.084	lb/hr lb/hr lb/mmBtu lb/mmBtu	17.30 8.76 0.88 0.74
1 Cold Solvent Cleaner	200 gal/yr	VOM HAP	6.7 1.0	lb/gal % wt.	0.67 0.007

These limits are based on the maximum emissions determined from hourly unit capacity, emission standards if applicable, and standard emission factors. Compliance with the annual limits shall be determined from a running total of 12 months of data.

- b. The boilers, heaters, and furnaces shall burn only natural gas. Use of another type of fuel requires prior approval by the Illinois EPA.
3. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including material handling or storage activity, beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
4. The Permittee shall maintain monthly and annual records of the following:
 - a. Natural gas usage in mmBtu/month and mmBtu/yr.
 - b. Aluminum usage in tons/mo and tpy.
 - c. Safety-Kleen cold cleaner usage in gal/mo and gal/yr.
 - d. Die lube usage in gal/mo and gal/yr.
 - e. VOM and HAPs emissions ton/month and ton/year.
5. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
6. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
7. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
8. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

9. The Permittee shall submit an Annual Emissions Report to the Illinois EPA by May 1st of each year. This report shall include natural gas usage; aluminum usage, Safety-Kleen cold cleaner usage; die lube usage; emissions of PM, CO, NO_x, VOM and HAPs from the preceding calendar year. If there have been no exceedances during the preceding year, the Annual Emissions Report shall include a statement to that effect.

Please note that the following equipment is exempt from state air permit requirements:

<u>Equipment</u>	<u>201.146</u>
3 Boilers	(d)
7 Heaters	(d)
1 Shotblaster Baghouse	(aa)

If you have any questions on this, please call John Blazis at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

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cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the die casting plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 25 tons per year of VOM at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

1. Emissions and operation of the die casting operations shall not exceed the following limits:

<u>Emission Unit</u>	<u>Throughput</u>	<u>Pollutant</u>	<u>Emissions Emission Rate (TPY)</u>		
8 Gas-Fired Furnaces	35,000 TPY of Aluminum, 12 mmBtu/hr	PM	1.9	lb/ton	33.25
		NO _x	0.10	lb/mmBtu	5.26
		CO	0.084	lb/mmBtu	4.42
20 Die Casting Machines	85,300 gal/yr of Die Lube, 2 mmBtu/hr	VOM	3.95	lb/hr	17.30
		PM	2.00	lb/hr	8.76
		NO _x	0.100	lb/mmBtu	0.88
		CO	0.084	lb/mmBtu	0.74
1 Cold Solvent Cleaner	200 gal/yr	VOM	6.7	lb/gal	0.67
		HAP	1.0	% wt.	0.007

This tabulation defines the potential emissions of the die casting operation and is based on the maximum actual emissions determined from hourly unit capacity, emission standards if applicable, and standard emission factors.

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