

217/782-2113

LIFETIME OPERATING PERMIT

PERMITTEE

Metals Technology Corporation
Attn: Mr. Tom Bell
120 North Schmale Road
Carol Stream, Illinois 60188

Application No.: 99030075

I.D. No.: 043020ACD

Applicant's Designation:

Date Received: September 10, 2008

Subject: Heat Treating Plant

Date Issued: January 23, 2009

Expiration Date: See Condition 1.

Location: 120 North Schmale Road, Carol Stream, DuPage County

Permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

Heat Treating Operation

as described in the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- b. This permit shall terminate if it is withdrawn or is superseded by a revised permit.
- c. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- 2a. Quench oil usage and VOM emissions from quenching operations shall not exceed 0.73 tons/month (averaged per waste cycle) and 7.25 tons/year. The quench oil usage shall be determined as the difference between amount of oil introduced in the process minus the certified amount of oil shipped off for disposal/recycling. Compliance with annual limits shall be determined from a running total of 12 months of data.
- b. This permit is issued based on no VOM or HAPs used in any clean-up operations.
3. Operation and emissions from all natural gas-fired equipment, except the 3 austemper and 8 quench oil furnaces, 4 endothermic generators, 2 hot water washers, and all comfort heaters, shall not exceed the following limits:

Natural Gas						
Combustion	NO _x Emissions		CO Emissions		VOM Emissions	
<u>(mmscf/Yr)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
175	0.9	8.8	0.8	7.4	0.05	0.5
	PM Emissions		SO ₂ Emissions			
	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>		
	0.07	0.7	0.005	0.05		

These limits are based on standard AP-42 emission factors and maximum operating rates. Compliance with annual limits shall be determined from a running total of 12 months of data.

4. Pursuant to 35 Ill. Adm. Code 218.301, no person shall cause or allow the discharge of more than 8 lbs/hour of organic material into the atmosphere from any emission source, except as provided in Sections 218.302, 218.303, 218.304, and the following exception: If no odor nuisance exists this limitation shall apply only to photochemically reactive material.
- 5a. The Permittee shall comply with the opacity limitations of 35 Ill. Adm. Code 212.123 and the particulate matter emission limitations of 35 Ill. Adm. Code 212.321.
- b. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source (35 Ill. Adm. Code 212.301).
6. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the equipment covered under this permit such that the equipment be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.
7. The Permittee shall notify the Illinois EPA in writing of any modification, replacement or addition of equipment, including any change in type or amounts of raw materials used or fuel burned.
8. This permit is issued based on the Potential to Emit (PTE) for Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act being less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs or such less quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program Permit (CAAPP) from the Illinois EPA.
9. The Permittee shall maintain monthly records of the following items:
 - a. Quench oil added to operations (tons/month, tons/year);
 - b. Certified amount of waste shipped off for disposal/recycling (tons/month, tons/year) (averaged per waste cycle);

- c. Certified Water content of waste shipped off for disposal/recycling (weight %);
 - d. Natural Gas used (mmscf/month, mmscf/year); and
 - e. NO_x, VOM, SO₂, PM and CO emissions (tons/month, tons/year) with supporting calculations.
10. 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 the Illinois EPA request for records during the course of a source inspection.
11. If there is an exceedance of or deviation from 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/deviation. 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 deviation and efforts to reduce emissions and future occurrences.
12. Two (2) copies of required reports and notifications shall be sent to:
- Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, IL 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

13. Persons with lifetime operating permit must obtain a revised permit to any of the following changes at the source:
- a. An increase in emissions above the amount the emission unit or the source is permitted to emit;
 - b. A modification;
 - c. A change in operation that will result in the source's noncompliance with a condition in the existing permit; or
 - d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

Please note, the 3 austemper and 8 quench oil furnaces, 4 endothermic generators, 2 hot water washers, comfort heaters, propane lift trucks, fuel oil storage vessels, shotblasting, drilling, sawing, etc.; and cold cleaning are exempt from state permitting requirements pursuant to 35 Ill. Adm. Code 201.146(d),(e),(n)(3),(aa) and (v), respectively.

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

Edwin C. Bakowski, P.E.
Manager, Permit Section
Division of Air Pollution Control

Date Signed: _____

ECB:RBS:psj

cc: Region 1