# MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

April 25, 2008

### **PERMIT TO INSTALL**

No. 59-03A

## ISSUED TO

Steeltech, Ltd.

### LOCATED AT

1251 Phillips Avenue SW Grand Rapids, Michigan 49507

### IN THE COUNTY OF

Kent

### STATE REGISTRATION NUMBER

B5236

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 4/3/2008		
DATE PERMIT TO INSTALL APPROVED: 4/25/2008	SIGNATURE:	
DATE PERMIT VOIDED:	SIGNATURE:	
DATE PERMIT REVOKED:	SIGNATURE:	

### PERMIT TO INSTALL

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### **Common Abbreviations / Acronyms**

AQD Air Quality Division ANSI American National Standards Institute BACT Best Available Control Technology CAA Clean Air Act CEM Continuous Emission Monitoring CFR Code of Federal Regulations FF Degrees Fahrenheit Codes CFR Code of Federal Regulations FF Degrees Fahrenheit Codes CFR Code of Carbon Monoxide CFR Code of Federal Regulations FF Degrees Fahrenheit Codes CFR Codes CPP Hash Pedral Cubic Meter FP Degrees Fahrenheit Codes CFR Codes CPP Hash Pedral Cubic Meter FP Particulate Matter FP Particulate			Pollutant/Measurement Abbreviations		
ANSI American National Standards Institute BACT Best Available Control Technology CAA Clean Air Act CCHA Continuous Emission Monitoring CFR Code of Federal Regulations COM Continuous Opacity Monitoring CFR Code of Federal Regulations COM Continuous Opacity Monitoring CFR Code of Federal Regulations COM Continuous Opacity Monitoring CFR Environmental Protection Agency EU Emission Unit FG Flexible Group GACS Gallon of Applied Coating Solids GC General Condition HAP Hazardous Air Pollutant HVLP High Volume Low Pressure * ID Identification LAER Lowest Achievable Emission Rate MACT Maximum Achievable Control Technology MAERS Michigan Air Emissions Reporting System MAP Malfunction Abatement Plan MDEQ Michigan Department of Environmental Quality MIOSHA Michigan Occupational Safety & Health Administration MSDS Material Safety Data Sheet NESHA National Emission Standard for P Hazardous Air Pollutants NSPS New Source Performance Specification PSD Prevention of Significant Deterioration PSD Prevention of Significant Deterioration PTE Permanent Total Enclosure PSD Prevention of Significant Deterioration PTE Permanent Total Enclosure PTI Permit to Install RACT Reasonable Available Control Technology SC Special Condition Number SCR Selective Catalytic Reduction PSR Stan Registration Number TAC Toxic Air Contaminant VC Ocylotatle Organic Compounds VC Volatile Organic Compounds	Common Acronyms				
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TAC Toxic Air Contaminant yr Year	SCR	Selective Catalytic Reduction	μg	Microgram	
	SRN	State Registration Number	VOC	Volatile Organic Compounds	
VE Visible Emissions	TAC	Toxic Air Contaminant	yr	Year	
	VE	Visible Emissions			

<sup>\*</sup> For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

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#### **GENERAL CONDITIONS**

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))

- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)

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8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.

- 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.
- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. (R 336.1301)
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this permit to install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). (R 336.1370)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

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### **SPECIAL CONDITIONS**

### **Emission Unit Identification**

<b>Emission Unit ID</b>	Emission Unit Description	Stack Identification	
EUSANDRECLAIM	Sand reclaim unit equipped with the Aget	SV001	
EUSANDRECLAIM	baghouse, Model FT40SV.	3,001	
	Gudgeon sand shaker unit equipped with a mold		
EUSANDSHAKER	staging table to reduce large chunks of sand to	NA	
	grain size.		
EUSHOTBLAST Shotblast unit controlled by a baghouse with an			
EUSHOTBLAST	exhaust vent about 27 inches above ground.		
Changes to the equipment described in this table are subject to the requirements of R 336.1201,			
except as allowed by R 336 1278 to R 336 1290			

except as allowed by R 336.1278 to R 336.1290.

### **Flexible Group Identification**

Flexible Group ID	Emission Units Included in Flexible Group	Stack Identification	
FGSANDHANDLING	EUSANDRECLAIM	SV001	
FGSANDHANDLING	EUSANDSHAKER	30001	
	All equipment at the facility including equipment		
FGFACILITY	covered by other permits, grand-fathered		
	equipment and exempt equipment.		

### The following conditions apply to: EUSANDRECLAIM

### **Emission Limits**

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirement
1.1	РМ	EUSANDRECLAIM	0.10lb/1000lb exhaust gas on a dry gas basis	Test Protocol	GC 14	R 336.1331

### **Equipment**

1.2 The permittee shall not operate EUSANDRECLAIM unless the associated baghouse is installed, maintained, and operated in a satisfactory manner. (R 336.1910)

### **Stack/Vent Restrictions**

	Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement	
1.3	SV001	24x42	65	R 336.2803, R 336.2804	
	The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air.				

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### The following conditions apply to: EUSHOTBLAST

#### **Emission Limits**

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirement
2.1	РМ	EUSHOTBLAST	0.10lb/1000lb exhaust gas on a dry gas basis	Test Protocol	GC 14	R 336.1331

### Equipment

2.2 The permittee shall not operate EUSHOTBLAST unless the associated baghouse is installed, maintained, and operated in a satisfactory manner. (R 336.1910)

### The following conditions apply to: FGSANDHANDLING

### **Visible Emission Limits**

3.1 Visible emissions from FGSANDHANDLING shall not exceed a six-minute average of 20 percent opacity. (R 336.1301, R 336.1331)

### Recordkeeping / Reporting / Notification

3.2 The permittee shall keep, in a satisfactory manner, monthly records of sand usage in tons per month for FGSANDHANDLING. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205 (3))

### The following conditions apply to: FGFACILITY

### Recordkeeping / Reporting / Notification

4.1 The permittee shall keep, in a satisfactory manner, monthly records of steel melted in tons per month for FGFACILITY. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205 (3))