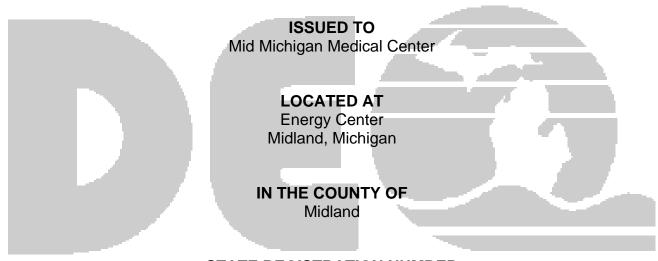
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

January 5, 2010

PERMIT TO INSTALL

295-09



STATE REGISTRATION NUMBER F5551

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:				
December 17, 2009				
December 17, 2009	December 17, 2009			
DATE PERMIT TO INSTALL APPROVED:	SIGNATURE:			
January 5, 2010				
DATE PERMIT VOIDED:	SIGNATURE:			
DATE LEXIVIT VOIDED.	GIOTATORE.			
DATE PERMIT REVOKED:	SIGNATURE:			

PERMIT TO INSTALL

Table of Contents

Section	Page
Alphabetical Listing of Common Abbreviations / Acronyms	2
General Conditions	3
Special Conditions	5
Emission Unit Summary Table	5
Flexible Group Summary Table	5
Special Conditions for FGBOILERS (EUBOILER2, EUBOILER3 and EUBOILER4)	6

Common Abbreviations / Acronyms

Common Acronyms			Pollutant/Measurement Abbreviations		
AQD	Air Quality Division	BTU	British Thermal Unit		
ANSI	American National Standards Institute	°C	Degrees Celsius		
BACT	Best Available Control Technology	СО	Carbon Monoxide		
CAA	Clean Air Act	dscf	Dry standard cubic foot		
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter		
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit		
COM	Continuous Opacity Monitoring	gr	Grains		
EPA	Environmental Protection Agency	Hg	Mercury		
EU	Emission Unit	hr	Hour		
FG	Flexible Group	H ₂ S	Hydrogen Sulfide		
GACS	Gallon of Applied Coating Solids	hp	Horsepower		
GC	General Condition	lb	Pound		
HAP	Hazardous Air Pollutant	m	Meter		
HVLP	High Volume Low Pressure *	mg	Milligram		
ID	Identification	mm	Millimeter		
LAER	Lowest Achievable Emission Rate	MM	Million		
MACT	Maximum Achievable Control Technology	MW	Megawatts		
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram		
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen		
MDEQ	Michigan Department of Environmental Quality (Department)	РМ	Particulate Matter		
MIOSHA	Michigan Occupational Safety & Health Administration	PM10	PM less than 10 microns diameter		
MSDS	Material Safety Data Sheet	PM2.5	PM less than 2.5 microns diameter		
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pound per hour		
NSPS	New Source Performance Standards	ppm	Parts per million		
NSR	New Source Review	ppmv	Parts per million by volume		
PS	Performance Specification	ppmw	Parts per million by weight		
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute		
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge		
PTI	Permit to Install	scf	Standard cubic feet		
RACT	Reasonably Available Control Technology	sec	Seconds		
ROP	Renewable Operating Permit	SO ₂	Sulfur Dioxide		
SC	Special Condition	THC	Total Hydrocarbons		
SCR	Selective Catalytic Reduction	tpy	Tons per year		
SRN	State Registration Number	μg	Microgram		
TAC	Toxic Air Contaminant	VOC	Volatile Organic Compounds		
TEQ	Toxicity Equivalence Quotient	yr	Year		
VE	Visible Emissions				

^{*} 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).

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))
- 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 and 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)
- 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.
- 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)

SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUBOILER2	Cleaver-Brooks 30.618 MM Btu/hr Boiler Model: CBLE-CBI-200-750-150 Serial No.: 0L107045 Primary Fuel: Natural Gas Emergency Backup Fuel: No. 2 Fuel Oil	December 2008	FGBOILERS
EUBOILER3	Cleaver-Brooks 30.618 MM Btu/hr Boiler Model: CBLE-CBI-200-750-150 Serial No.: 0L107046 Primary Fuel: Natural Gas Emergency Backup Fuel: No. 2 Fuel Oil	December 2008	FGBOILERS
EUBOILER4	Cleaver-Brooks 24.494 MM Btu/hr Boiler Model: CBLE-CBI-200-600-150 Serial No.: 0L107047 Primary Fuel: Natural Gas Emergency Backup Fuel: No. 2 Fuel Oil	December 2008	FGBOILERS

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.

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGBOILERS	Three natural gas fired boilers with No. 2 fuel oil firing capabilities as emergency backup fuel.	EUBOILER2, EUBOILER3, EUBOILER4

The following conditions apply to: FGBOILERS

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx – natural gas	2.14 Pounds	Hour	EUBOILER2 or EUBOILER3	GC 13	R 336.1205(1)(a) & (3)
NOx – natural gas	1.71 Pounds	Hour	EUBOILER4	GC 13	R 336.1205(1)(a) & (3)
3. NOx – fuel oil	7.65 Pounds	Hour	EUBOILER2 or EUBOILER3	GC 13	R 336.1205(1)(a) & (3)
4. NOx – fuel oil	6.12 Pounds	Hour	EUBOILER4	GC 13	R 336.1205(1)(a) & (3)
5. CO – natural gas	4.59 Pounds	Hour	EUBOILER2 or EUBOILER3	GC 13	R 336.1205(1)(a) & (3)
6. CO – natural gas	3.67 Pounds	Hour	EUBOILER4	GC 13	R 336.1205(1)(a) & (3)
7. CO – fuel oil	2.14 Pounds	Hour	EUBOILER2 or EUBOILER3	GC 13	R 336.1205(1)(a) & (3)
8. CO – fuel oil	1.71 Pounds	Hour	EUBOILER4	GC 13	R 336.1205(1)(a) & (3)

II. MATERIAL LIMITS

- 1. The permittee shall burn only natural gas or No. 2 fuel oil in FGBOILERS. (R 336.1205(1)(a) & (3))
- 2. The sulfur content of the fuel oil used in FGBOILERS shall not exceed 0.10 percent by weight. (R 336.1205(1)(a) & (3), R 336.1401)
- 3. The fuel usage for FGBOILERS shall not exceed 1,822,502 gallons of fuel oil per 12-month rolling time period as determined at the end of each calendar month. (R 336.1205(1)(a) & (3))

III. PROCESS/OPERATIONAL RESTRICTIONS

- 1. The permittee shall obtain the following information from the fuel oil supplier for each shipment of fuel oil for EUBOILER2, EUBOILER3 and EUBOILER4:
 - a. The name of the oil supplier;
 - b. A certification from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41(c); and
 - c. The sulfur content of the oil.

(R 336.1205(1)(a) and (3), 40 CFR 60.42(c)(h))

2. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and SUBPART Dc, as they apply to EUBOILER2, EUBOILER3 and EUBOILER4. (40 CFR Part 60 Subparts A & SUBPART Dc)

IV. <u>DESIGN/EQUIPMENT PARAMETERS</u>

1. N/A

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall maintain a complete copy of the sulfur content, as supplied by the fuel oil vendor, for each shipment of fuel used in each boiler in FGBOILERS. (R 336.1205(3))

VII. REPORTING

1. The permittee shall provide written notification of construction and operation to comply with the federal Standards of Performance for New Stationary Sources, 40 CFR 60.7. The permittee shall submit this notification to the AQD District Supervisor within the time frames specified in 40 CFR 60.7. (40 CFR 60.7, 40 CFR 60.48c (a))

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBOILER2	24	36	R 336.1225 R 336.2803, R 336.2804, 40CFR52.21(c) &(d)
2. SVBOILER3	24	36	R 336.1225 R 336.2803, R 336.2804, 40CFR52.21(c) &(d)
3. SVBOILER4	24	36	R 336.1225 R 336.2803, R 336.2804, 40CFR52.21(c) &(d)

IX. OTHER REQUIREMENTS

1. N/A