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**Alphabetical Listing of Common Abbreviations/Acronyms used in this Permit to Install.**

Common Acronyms		Pollutant/Measurement Abbreviations	
AQD	Air Quality Division	°C	Degrees Celsius
BACT	Best Available Control Technology	CO	Carbon Monoxide
CAA	Clean Air Act	°F	Degrees Fahrenheit
CEM	Continuous Emission Monitoring	BTU	British Thermal Unit
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
EPA	Environmental Protection Agency	gr	Grains
EU	Emission Unit	Hg	Mercury
GACS	Gallon of Applied Coating Solids	hr	Hour
GC	General Condition	H <sub>2</sub> S	Hydrogen Sulfide
HAP	Hazardous Air Pollutant	HP	Horsepower
HVLP	High Volume Low Pressure *	Lb	Pound
ID	Identification	M	Meter
LAER	Lowest Achievable Emission Rate	mm	Millimeter
MACT	Maximum Achievable Control Technology	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NO <sub>x</sub>	Oxides of Nitrogen
MSDS	Material Safety Data Sheet	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM10	Particulate Matter less than 10 microns diameter
NSPS	New Source Performance Standards	pph	Pound per hour
NSR	New Source Review	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonable Available Control Technology	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO <sub>2</sub>	Sulfur Dioxide
SRN	State Registration Number	THC	Total Hydrocarbons
TAC	Toxic Air Contaminant	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		VOC	Volatile Organic Compounds
		yr	Year

\* 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).

## Supplement to Permit No. 97-81A

### GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, altered, 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. **[R336.1201(1)]**
2. If the installation, reconstruction, relocation, or alteration 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 person to whom this permit was issued, or the designated authorized agent, shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, PO Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or alteration of the equipment allowed by this Permit to Install. **[R336.1201(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 R336.1210, 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. **[R336.1201(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. **[R336.1201(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 R336.1219 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 R336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **[R336.1219]**
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. **[R336.1901]**
7. The owner or operator of a source, process, or process equipment shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant in excess of standards for more than one hour, or of any air contaminant in excess of standards for more than two hours, as required in this rule, to the District Supervisor, Air Quality Division. The notice shall be provided no 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 District Supervisor within ten days, with the information required in this rule. **[R336.1912]**
8. Approval of this permit does not exempt the person to whom this permit was issued from complying with any future applicable requirements which may be promulgated under Part 55 of Act 451, PA 1994 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 Act 451, PA 1994, 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 R336.1301, a person 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 R336.1303. **[R336.1301]**
  - 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 R336.1370(2). **[R336.1370]**
13. Except as allowed by Rule 285 (a), (b), and (c), permittee shall not substitute any fuels, coatings, nor raw materials for those described in the application and allowed by this permit, nor make changes to the process or process equipment described in the application, without prior notification to and approval by the Air Quality Division. **[R336.1201(1)]**
14. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R336.2001 and R336.2003, under any of the conditions listed in R336.2001. **[R336.2001]**

**SPECIAL CONDITIONS**

**Emission Unit Identification**

<b>Emission Unit ID</b>	<b>Emission Unit Description</b>	<b>Reference No.</b>
EU-GRAINRECEIVING	Two Truck Unloading Enclosures (bays), 30,000 bushels/hr, and two receiving pits	1
EU-GRAINSHIPPING	One Railcar Loading Area (30,000 bushels/hr) and one Truck Loading Area (15,000 bushels/hr)	2
EU-INTERNALOPERAT	Two Gravity Screener Grain Cleaners (30,000 bushels/hr) and Internal Grain Transport/Handling Operations	3
EU-GRAINDRYER	One Grain Dryer (3,500 bushel/hr throughput capacity at 5 points moisture removal), 2,000,000 bushels/year total throughput	4
EU-GRAINSTORAGE	Four Concrete Storage Silos (total of 550,000 bushels), four Dry Grain Metal Storage Bins (total of 1.05 Million bushels), and one Covered Temporary Storage Enclosure (900,000 bushel capacity)	n.a.
Changes to the equipment described in this table are subject to the requirements of R336.1201, except as allowed by R336.1278 to R336.1290.		

**Flexible Group Identification**

<b>Flexible Group ID</b>	<b>Emission Units Included in Flexible Group</b>	<b>Reference No.</b>
FG-GRAINOPERATION	EU-GRAINRECEIVING EU-GRAINSHIPPING EU-INTERNALOPERAT EU-GRAINDRYER EU-GRAINSTORAGE	5

**The following conditions apply to: EU-GRAINRECEIVING**

**Equipment**

- 1.1 The permittee shall equip and maintain the open end of the truck unloading enclosure portions of EU-GRAINRECEIVING with a canvas barrier or other such device to close off as much as possible the open doorway while truck unloading occurs. [R 336.1205, R 336.1301, R 336.1901, and R 336.1910]
- 1.2 The permittee shall not unload non-hopper-bottom trucks unless the rear door to the receiving pit enclosure portion of EU-GRAINRECEIVING is closed. [R 336.1205, R 336.1901, and R 336.1910]

**The following conditions apply to: EU-GRAINSHIPPING**

**Equipment**

- 2.1 The permittee shall not load railroad cars in EU-GRAINSHIPPING unless the end of the loading spout is below the level of the top of the car. [R 336.1205, R 336.1901, and R 336.1910]

**The following conditions apply to: EU-INTERNALOPERAT**

**Process/Operational Limits**

- 3.1 Particulate matter collected from the cleaning operation portion of EU-INTERNALOPERAT shall be removed and disposed of in a manner which minimizes fugitive emissions. [R 336.1205, R 336.1370, and R 336.1901]

**The following conditions apply to: EU-GRAINDRYER**

**Visible Emissions Limits**

- 4.1 Visible emissions from EU-GRAINDRYER shall not exceed a 6-minute average of 5 percent opacity. [R 336.1205, R 336.1301, and R 336.1901]

**Equipment**

- 4.2 The applicant shall not operate EU-GRAINDRYER unless all the exhaust gases are passed through column plate perforations with diameters less than or equal to 0.094 inch. [R 336.1205, R 336.1301, R 336.1331, R 336.1901, and R 336.1910]

**The following conditions apply to: FG-GRAINOPERATION**

**Process/Operational Limits**

- 5.1 The applicant shall not operate FG-GRAINOPERATION unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix A has been implemented and is maintained. [R 336.1205, R 336.1901, and R 336.1911]

**Appendix A**

**FUGITIVE DUST CONTROL PLAN**

**Grain Handling, Drying, and Storage - Plant and Roadways**

**I. Site Roadways / Plant Yard**

- A. The dust on the site roadways/plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits.
- B. All paved roadways/plant yards shall be swept as needed between applications.
- C. Any material spillage on roads shall be cleaned up immediately.

**II. Plant**

- A. The drop distance at each transfer point shall be reduced to the minimum the equipment can achieve. All transfer points shall be enclosed.

**III. Grain Storage**

- A. All outdoor storage of grain shall be covered.

**IV. Truck Traffic**

- A. On-site: Vehicles shall be loaded to prevent their contents from dropping, leaking, blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within 6 inches of the top of any side board, side panel or tail gate, otherwise, the truck shall be tarped.

**V. AQD/MDEQ Inspection**

- A. The provisions and procedures of this plan are subject to adjustment by written notification from the AQD, if following an inspection, the AQD finds the fugitive dust requirements and/or permitted opacity limits are not being met.