## MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

November 29, 2022

PERMIT TO INSTALL 223-74D

ISSUED TO ADM Grain Co. – Ottawa Lake

## LOCATED AT 6801 East US 223 Ottawa Lake, Michigan 49267

IN THE COUNTY OF

Monroe

# STATE REGISTRATION NUMBER B4311

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. 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:

# September 21, 2022

DATE PERMIT TO INSTALL APPROVED: November 29, 2022	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

## PERMIT TO INSTALL

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### **COMMON ACRONYMS**

AQD BACT CAA CAM CEMS CFR COMS Department/department/EGLE EU FG GACS GC GHGS HVLP ID IRSL ITSL LAER MACT MAERS MAP MSDS NA NAAQS NESHAP NSPS NSR PS NSR PS SD PTE PTI RACT ROP SC SCR SCR SCR SNCR SRN TBD TEQ USEPA/EPA	Air Quality Division Best Available Control Technology Clean Air Act Compliance Assurance Monitoring Continuous Emission Monitoring System Code of Federal Regulations Continuous Opacity Monitoring System Michigan Department of Environment, Great Lakes, and Energy Emission Unit Flexible Group Gallons of Applied Coating Solids General Condition Greenhouse Gases High Volume Low Pressure* Identification Initial Threshold Screening Level Lowest Achievable Emission Rate Maximum Achievable Control Technology Michigan Air Emissions Reporting System Malfunction Abatement Plan Material Safety Data Sheet Not Applicable National Ambient Air Quality Standards National Ambient Air Quality Standards National Ambient Air Quality Standards New Source Performance Standards New Source Review Performance Specification Prevention of Significant Deterioration Permanent Total Enclosure Permit to Install Reasonable Available Control Technology Renewable Operating Permit Special Condition Selective Catalytic Reduction State Registration Number To Bc Determined Toxicity Equivalence Quotient United States Environmental Protection Agency
VE	Visible Emissions

# POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm BTU $^{\circ}$ C CO CO <sub>2</sub> e dscf dscm $^{\circ}$ F gr HAP Hg hr HP H <sub>2</sub> S kW Ib m mg mm MM MW NMOC NO <sub>x</sub> ng PM PM10 PM2.5 pph ppm ppmv ppmv ppmv psia psig scf sec SO <sub>2</sub>	Actual cubic feet per minute British Thermal Unit Degrees Celsius Carbon Monoxide Carbon Dioxide Equivalent Dry standard cubic foot Dry standard cubic meter Degrees Fahrenheit Grains Hazardous Air Pollutant Mercury Hour Horsepower Hydrogen Sulfide Kilowatt Pound Meter Milligram Millimeter Milligram Millimeter Million Megawatts Non-Methane Organic Compounds Oxides of Nitrogen Nanogram Particulate Matter Particulate Matter Particulate Matter equal to or less than 10 microns in diameter Particulate Matter equal to or less than 2.5 microns in diameter Pounds per hour Parts per million Parts per million by volume Parts per million by volume Parts per million by volume Parts per million by weight Pounds per square inch absolute Pounds per square inch aguge Standard cubic feet Seconds Sulfur Dioxide
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
μg	Microgram
μm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

### **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 Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, 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 Rule 210 (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 Rule 219 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 Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. (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 condition 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.
- 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 Rule 301, 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 Rule 303 (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 Rule 370(2). (**R 336.1370**)
- The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. (R 336.2001)

### **EMISSION UNIT 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 (Including Process Equipment & Control Device(s))	Flexible Group ID
EUAHOUSE	Equipment associated with the A and B House grain handling operations. Emissions are controlled by the A House baghouse.	NA
EUCHOUSE	Equipment associated with the C House grain handling operations. Emissions are controlled by the C House baghouse.	NA
EUWHEATFLOUR	Direct transfer of wheat flour from rail cars to truck trailers equipped with dust collectors via pneumatic conveying.	NA

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 336.1291.

# EUAHOUSE EMISSION UNIT CONDITIONS

#### DESCRIPTION

Equipment associated with the A and B House grain handling operations. Emissions are controlled by the A House baghouse.

#### Flexible Group ID: NA

### POLLUTION CONTROL EQUIPMENT

Baghouse dust collector

#### I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1.	PM	0.01 gr/ dscf	At least 60 minutes and 60 dscf	EUAHOUSE	GC 13	R 331.1331, 40 CFR 60.302(b)(1)
2.	Visible emissions	0% opacity	6-minute average	EUAHOUSE	GC 13	40 CFR 60.302(b)(2)
3.	Visible emissions	5% opacity	6-minute average	Fugitive emissions from truck and railcar unloading	GC 13	40 CFR 60.302(c)(1)
4.	Visible emissions	5% opacity	6-minute average	Fugitive emissions from railcar loading	GC 13	40 CFR 60.302(c)(1)
5.	Visible emissions	0% opacity	6-minute average	Fugitive emissions from grain handling	GC 13	40 CFR 60.302(c)(2)
6.	Visible emissions	10% opacity	6-minute average	Fugitive emissions from truck loading	GC 13	40 CFR 60.302(c)(3)

#### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate EUAHOUSE unless a malfunction abatement plan (MAP) as described in Rule 911(2), for grain handling, has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
  - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
  - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
  - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District

Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1331, R 336.1910, R 336.1911)

### IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EUAHOUSE unless the baghouse dust collector is installed, maintained, and operated in a satisfactory manner. (R 336.1331, R 336.1910)
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor the pressure drop across the baghouse dust collector on a continuous basis. (R 336.1331, R 336.1910)

### V. TESTING/SAMPLING

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

NA

#### VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))
- 2. The permittee shall record, in a satisfactory manner, the pressure drop across the baghouse dust collector on a daily basis. (R 336.1910)

#### VII. <u>REPORTING</u>

NA

### VIII. STACK/VENT RESTRICTION(S)

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	Minimum Height	Underlying
	Diameter / Dimensions	Above Ground	Applicable
	(inches)	(feet)	Requirements
1. SVAHOUSE	SVAHOUSE 52		40 CFR 52.21(c) & (d)

## IX. OTHER REQUIREMENT(S)

1. 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 DD (Standards of Performance for Grain Elevators), as they apply to EUAHOUSE. **(40 CFR Part 60 Subparts A & DD)** 

#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# EUCHOUSE EMISSION UNIT CONDITIONS

#### DESCRIPTION

Equipment associated with the C House grain handling operations. Emissions are controlled by the C House baghouse.

#### Flexible Group ID: NA

### POLLUTION CONTROL EQUIPMENT

Baghouse dust collector

#### I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1.	PM	0.01 gr/ dscf	At least 60 minutes and 60 dscf	EUCHOUSE	SC V.1	R 331.1331, 40 CFR 60.302(b)(1)
2.	Visible emissions	0% opacity	6-minute average	EUCHOUSE	SC V.1	40 CFR 60.302(b)(2)
3.	Visible emissions	5% opacity	6-minute average	Fugitive emissions from truck and railcar unloading	SC V.1	40 CFR 60.302(c)(1)
4.	Visible emissions	5% opacity	6-minute average	Fugitive emissions from railcar loading	SC V.1	40 CFR 60.302(c)(1)
5.	Visible emissions	0% opacity	6-minute average	Fugitive emissions from grain handling	SC V.1	40 CFR 60.302(c)(2)
6.	Visible emissions	10% opacity	6-minute average	Fugitive emissions from truck loading	SC V.1	40 CFR 60.302(c)(3)

#### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate EUCHOUSE unless a malfunction abatement plan (MAP) as described in Rule 911(2), for grain handling, has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
  - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
  - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
  - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District

Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1331, R 336.1910, R 336.1911)

### IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EUCHOUSE unless the baghouse dust collector is installed, maintained, and operated in a satisfactory manner. (R 336.1331, R 336.1910)
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor the pressure drop across the baghouse dust collector on a continuous basis. (R 336.1331, R 336.1910)

### V. TESTING/SAMPLING

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

Upon request of the AQD District Supervisor, the permittee shall verify Particulate Matter emission rates and visual emissions from EUCHOUSE by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21 Subparts (c) & (d))

#### VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))
- 2. The permittee shall record, in a satisfactory manner, the pressure drop across the baghouse dust collector on a daily basis. (R 336.1910)

#### VII. <u>REPORTING</u>

NA

### VIII. STACK/VENT RESTRICTION(S)

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	Minimum Height	Underlying
	Diameter / Dimensions	Above Ground	Applicable
	(inches)	(feet)	Requirements
1. SVCHOUSE	11.6	45	40 CFR 52.21(c) & (d)

### IX. OTHER REQUIREMENT(S)

1. 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 DD (Standards of Performance for Grain Elevators), as they apply to EUCHOUSE. **(40 CFR Part 60 Subparts A & DD)** 

#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# EUWHEATFLOUR EMISSION UNIT CONDITIONS

### DESCRIPTION

Direct transfer of wheat flour from rail cars to truck trailers equipped with dust collectors via pneumatic conveying.

Flexible Group ID: NA

### POLLUTION CONTROL EQUIPMENT

All trucks are equipped with fabric filter dust collectors.

#### I. EMISSION LIMIT(S)

1. There shall be no visible emissions from EUWHEATFLOUR. (R 336.1301)

### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

### IV. DESIGN/EQUIPMENT PARAMETER(S)

 The permittee shall not operate EUWHEATFLOUR unless each truck's fabric filter dust collector is installed, maintained, and operated in a satisfactory manner acceptable to the AQD District Supervisor. (R 336.1331, R 336.1910)

#### V. TESTING/SAMPLING

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

NA

#### VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall monitor each truck's fabric filter dust collector to verify it is operating properly, by taking visible emission readings a minimum of once per transfer. Either a certified or non-certified reader shall take each visible emission reading during routine operating conditions. If any visible emissions (other than uncombined water vapor) are observed, the permittee shall immediately inspect the fabric filter and perform any required maintenance. (R 336.1910)
- 2. The permittee shall keep, in a satisfactory manner acceptable to the AQD District Supervisor, records of all visible emission readings for EUWHEATFLOUR. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. (R 336.1301)

### VII. <u>REPORTING</u>

NA

## VIII. STACK/VENT RESTRICTION(S)

#### NA

# IX. OTHER REQUIREMENT(S)

1. The permittee shall post a copy of the operating procedures for EU-WHEATFLOUR where they are clearly visible from the operator's workstation. (**R 336.1910**)

#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).