

Facility ID: 0514010089 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 0514010089 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001- 10.2 mmBTU/hr Natural gas fired column dryer	OAC rule 3745-17-11 (B)(1) Figure 2, curve P-1 OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)(3)	Particulate emissions from the drying of grain shall not exceed 2.6 lbs per hour. Visible fugitive PE shall not exceed 20% opacity as a 3-minute average. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust and also there are no visible particulate emissions from the exhaust stack(s). (see section B.1.).

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. This emissions unit shall be equipped with a control system that will minimize or eliminate particulate emissions.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

2.6 lbs per hour of Allowable Mass Emission Rate for Particulate Emissions (PE)

Emission Limitation was establish by using the following equations where:

A= 0.2xU

Where:

A=Allowable Mass Emission Rate, lbs/hr of Particulate Matter; and

U=Uncontrolled Mass Rate of Emission, lbs/hr (14.1).

Burner Emissions:

Emissions from the use of natural gas:

1.00 lbs of NOx per hour and 4.38 TPY NOx per year;

0.84 lbs of CO per hour and 0.33 TPY CO per year;
 0.123 lbs of PE per hour and 0.58 TPY PE per year;
 0.006 lbs of SO2 per hour and 0.02 TPY SO2 per year; and
 0.055lbs of VOC per hour and 0.24 TPY VOC per year.

Emissions determined by multiplying the AP-42 emission factors of 100 lb/mmcf for NOx, 84 lb/mmcf for CO, 7.6 lb/mmcf for PE, 0.6 lb/mmcf for SO2, and 5.5 lb/mmcf for VOC (Tables 1.4-1 and 1.4-2) by the hourly gas usage (0.01mmscf/hr), and multiplying by 8760 hrs/yr and multiplying by a conversion factor of 1 ton/2000 lbs.

Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60 (Appendix on Test Methods).

F. Miscellaneous Requirements

- 1. None

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Part II - Special Terms and Conditions

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- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002- 10.2 mmBTU/hr Natural gas fired column dryer	OAC rule 3745-17-11 (B)(1)Table 1, Appendix A. OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)(3)	Particulate emissions from the drying of grain shall not exceed 24.55 lbs per hour. Visible fugitive PE shall not exceed 20% opacity as a 3-minute average. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust and also there are no visible particulate emissions from the exhaust stack(s).(see section B.1.).

- 2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

- 1. This emissions unit shall be equipped with a control system that will minimize or eliminate particulate emissions.

C. Monitoring and/or Record Keeping Requirements

- 1. None

D. Reporting Requirements

- 1. None

E. Testing Requirements

- 1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emissions Limitation:

Particulate Emissions (PE) shall not exceed 28.43 lbs/hr.

Emission Limitation was established by using the table 1 of appendix A using the following equation:

$$E=4.10 [(P) EXPO.0.67]$$

Where:

P=Process weight rate; and

E=Allowable rate of particulate Emission, 18 tons/yr.

Burner Emissions:

Emissions from the use of natural gas:

- 1.00 lbs of NOx per hour and 4.38 TPY NOx per year;
- 0.84 lbs of CO per hour and 0.33 TPY CO per year;
- 0.123 lbs of PE per hour and 0.58 TPY PE per year;
- 0.006 lbs of SO2 per hour and 0.02 TPY SO2 per year; and
- 0.055lbs of VOC per hour and 0.24 TPY VOC per year.

Emissions determined by multiplying the AP-42 emission factors of 100 lb/mmcf for NOx, 84 lb/mmcf for CO, 7.6 lb/mmcf for PE, 0.6 lb/mmcf for SO2, and 5.5 lb/mmcf for VOC (Tables 1.4-1 and 1.4-2) by the hourly gas usage (0.01mmscf/hr), and multiplying by 8760 hrs/yr and multiplying by a conversion factor of 1 ton/2000 lbs.

Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60 (Appendix on Test Methods).

F. Miscellaneous Requirements

1. None

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F003- Railcar Grain Shipping	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust and also there are no visible particulate emissions from the exhaust stack(s). (see section B.1.).

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. This emissions unit shall be equipped with a control system that will minimize or eliminate particulate emissions.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

- 1. None
- E. **Testing Requirements**
 - 1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60 (Appendix on Test Methods).

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0514010089 Emissions Unit ID: F004 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F004- Truck (Load out)	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust and also there are no visible particulate emissions from the exhaust stack(s).(see section B.1.).

- 2. **Additional Terms and Conditions**
 - (a) None

B. **Operational Restrictions**

- 1. This emissions unit shall be equipped with a control system that will minimize or eliminate particulate emissions.

C. **Monitoring and/or Record Keeping Requirements**

- 1. None

D. **Reporting Requirements**

- 1. None

E. **Testing Requirements**

- 1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60 (Appendix on Test Methods).

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0514010089 Emissions Unit ID: F005 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F005-TruckGrain Receiving (Loadin)	OAC rule3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity as a 3-minutes average
	OAC rule 3745-17-08(B)(3)	The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust and also there are no visible particulate emissions from the exhaust stack(s).(see section B.1.).

- 2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

- 1. This emissions unit shall be equipped with a control system that will minimize or eliminate particulate emissions.

C. Monitoring and/or Record Keeping Requirements

- 1. None

D. Reporting Requirements

- 1. None

E. Testing Requirements

- 1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60 (Appendix on Test Methods).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 0514010089 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901-Grain Handling and Storage	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust and also there are no visible particulate emissions from the exhaust stack(s). (see section B.1.).
	OAC rule 3745-17-11(B)(1) Figure 2 curve P-1	Particulate emissions from grain receiving shall not exceed 4.8 lbs/yr.

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. This emissions unit shall be equipped with a control system that will minimize or eliminate particulate emissions.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60 (Appendix on Test Methods).

Emission Limitation:

4.8 lbs per hour of Allowable Mass Emission Rate for Particulate Emissions (PE)

Emission Limitation was establish by using the following equations where:

$$A = 0.2 \times U$$

Were:

A=Allowable Mass Emission Rate, lbs/hr of Particulate Matter; and

U=Uncontrolled Mass Rate of Emission, lbs/hr (24.15).

F. Miscellaneous Requirements

1. None