

Facility ID: 0575010132 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: 0575010132 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 Grain handling for Dryer	OAC rule 3745-31-05(A)(3) (PTI 05-09543)	Particulate emissions from the grain shall not exceed 0.74 tons per year.
		PM10 emissions from the grain shall not exceed 0.19 tons per year.
	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 visible emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(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. The permittee shall minimize and/or eliminate particulate matter emissions resulting from conveying operations through utilization of total enclosure of all equipment associated with these operations.
2. The maximum annual throughput for grain conveyed (associated with F002) shall not exceed 180,180 tons of grain.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following monthly records:
 - a. the amount of grain processed, in tons for that month; and
 - b. the amount of grain processed, in tons on a year to date total.

D. Reporting Requirements

1. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the following:
 - a. the throughput of grain processed through this emissions unit exceeded 180,180 tons per calendar year.

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:
 - a. Emission Limitation:
From the grain from hopper 0.74 tons of PE/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the AP-42 emission factor of 0.22 lb PE/ton of grain dried (Section 9.9) by the maximum annual throughput of 180,180 tons of grain, and multiplying by a conversion factor of 1 ton/2000 lbs, respectively.
 - b. Emission Limitation:

From the grain from hopper 0.19 tons of PM10/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the AP-42 emission factor of 0.055 lb PE/ton of grain dried (Section 9.9) by the maximum annual throughput of 180,180 tons of grain, and multiplying by a conversion factor of 1 ton/2000 lbs, respectively
 - c. 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: 0575010132 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

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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- Natural gas fired column dryer	OAC rule 3745-31-05(A)(3) (PTI 05-09543)	Particulate emissions from the drying of grain shall not exceed 4.52 lbs per hour nor 19.8 tons per year. PM10 emissions from the drying of grain shall not exceed 1.13 lbs per hour nor 4.95 tons per year. Visible fugitive PE shall not exceed 20% opacity as a 3-minute average. Emissions from natural gas combustion shall not exceed the following rates:

- OAC rule 3745-17-07(B) 4.76 lbs of NOx per hour and 20.85 TPY NOx per year;
1.2 lbs of CO per hour and 5.3 TPY CO per year;
0.26 lbs of PE per hour and 1.14 TPY PE per year;
0.02 lbs of SO2 per hour and 0.091 TPY SO2 per year;
and
0.20 lbs of VOC per hour and 0.9 TPY VOC per year.
- OAC rule 3745-17-10(B) The visible emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- OAC rule 3745-17-08(B)(3) Particulate emissions from the combustion of natural gas shall not exceed 0.020 pound per million Btu of actual heat input.
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. Fugitive particulate matter emissions from the column dryer shall be controlled by the enclosure of the dryer with perforated sheets in which the perforations do not exceed 0.078 inch.
- 2. The maximum annual throughput for this emissions unit shall not exceed 180,180 tons of grain.
- 3. The permittee shall be restricted to burning only natural gas in this emissions unit.

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

- 1. The permittee shall maintain the following monthly records:
 - a. the amount of grain processed, in tons for that month; and
 - b. the amount of grain processed, in tons on a year to date total.
- 2. The permittee shall maintain the following monthly records:
 - a. type of fuel employed.

D. **Reporting Requirements**

- 1. The permittee shall submit annual deviation (excursion) reports which identify any exceedances of the 180,180 tons of grain processed throughput limitation.
- 2. The permittee shall notify the Director (the Ohio EPA, Southwest District Office) of any record showing the use of a fuel other than natural gas in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 30 days following the end of the calendar month.

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:

From the grain drying, 4.52 lbs of PE/hr and 19.8 tons of PE/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the AP-42 emission factor of 0.22 lb PE/ton of grain dried (Section 9.9) by the maximum annual throughput of 180,180 tons of grain, and multiplying by a conversion factor of 1 ton/2000 lbs, respectively.
Emission Limitation:

From the grain drying, 1.13 lbs of PM10/hr and 4.95 tons of PM10/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the AP-42 emission factor of 0.055 lb PE/ton of grain dried (Section 9.9) by the maximum annual throughput of 180,180 tons of grain, and multiplying by a conversion factor of 1 ton/2000 lbs, respectively
Emission Limitation:

Emissions from the use of natural gas:

4.76 lbs of NOx per hour and 20.85 TPY NOx per year;
1.2 lbs of CO per hour and 5.3 TPY CO per year;
0.26 lbs of PE per hour and 1.14 TPY PE per year;
0.02 lbs of SO2 per hour and 0.1 TPY SO2 per year; and
0.20 lbs of VOC per hour and 0.88 TPY VOC per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the AP-42 emission factors of 140 lb/mmcf for NOx, 84

lb/mmcf for CO, 7.6 lb/mmcf for PE, 0.6 lb/mmcf for SO₂, and 5.8 lb/mmcf for VOC (Tables 1.4-1 and 1.4-2 (8/98)) by the hourly gas usage (34,000 cf/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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Facility ID: 0575010132 Emissions Unit ID: F003 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>
F003- Receiving (truck and rail)	OAC rule 3745-17-11(B)(1) Figure 2 curve P-1	Particulate emissions from grain receiving shall not exceed 10.99 lb/hr.
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)(3)	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. The emissions unit shall be equipped with such equipment that will adequately enclose, contain, capture, vent and control the fugitive dust.

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:

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

Emission Limitation was establish by using the following equations where:

$$A = 0.5782 \times U \times \text{EXP}(0.6458)$$

Were:

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

U=Uncontrolled Mass Rate of Emission, lbs/hr (94.50).

F. Miscellaneous Requirements

1. None

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Facility ID: 0575010132 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- Head house and internal handling	OAC rule 3745-17-11(B)(1) Figure 2 curve P-1	Particulate emissions from grain receiving shall not exceed 6.41 lb/hr..
	OAC rule 3745-17-07(B)(1)	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. The emissions unit shall be equipped with such equipment that will adequately enclose, contain, capture, vent and control the fugitative dust.

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:

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

Emission Limitation was establish by using the following equations where:

A= 0.20xU

Were:

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

U=Uncontrolled Mass Rate of Emission, lbs/hr (32.03).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 0575010132 Emissions Unit ID: F005 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>
F005- Storage bin vents	OAC rule 3745-17-11(B)(1) Figure 2 curve P-1	Particulate emissions from grain Headhouse and internal handling shall not exceed 2.63 lb/hr.
	OAC rule 3745-17-07(B)(1)	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. The emissions unit shall be equipped with such equipment that will adequately enclose, contain, capture, vent and control the fugitative dust.

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:

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

Emission Limitation was establish by using the following equations where:

A= 0.20xU

Were:

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

U=Uncontrolled Mass Rate of Emission, lbs/hr (13.13).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 0575010132 Emissions Unit ID: F006 Issuance type: Final State Permit To Operate

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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>
F006- Shipping (truck and rail)	OAC rule 3745-17-11(B)(1) Figure 2 curve P-1 OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08 (B) (3)	Particulate emissions from grain Headhouse and internal handling shall not exceed 9.03 lb/hr. 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. The emissions unit shall be equipped with such equipment that will adequately enclose, contain, capture, vent and control the fugitative dust.

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:

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

Emission Limitation was establish by using the following equations where:

A= 0.20xU

Were:

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

U=Uncontrolled Mass Rate of Emission, lbs/hr (45.15).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 0575010132 Emissions Unit ID: F007 Issuance type: Final State Permit To Operate

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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>
F007- Cleaner	OAC rule 3745-17-11(B)(1) Figure 2 curve P-1 OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08 (B) (3)	Particulate emissions from grain receiving shall not exceed 3.15 lb/hr. 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. The emissions unit shall be equipped with such equipment that will adequately enclose, contain, capture, vent and control the fugitive dust.

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:

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

Emission Limitation was establish by using the following equations where:

$A = 0.20xU$

Were:

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

U=Uncontrolled Mass Rate of Emission, lbs/hr (15.75).

F. **Miscellaneous Requirements**

1. None