

Facility ID: 0448010404 Issuance type: Title V Final Permit

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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

F002 - aluminum dross storage;
 G001 - gasoline storage tank;
 P002 - heat treat furnace;
 P007 - electric melt and hold furnaces;
 P008 - thermal deburring;
 P009 - wood shop;
 T002 - #2 fuel oil storage tank;
 Z079 - heat treat furnace;
 Z080 - heat treat furnace;
 Z081 - heat treat furnace;
 Z082 - heat treat furnace;
 Z083 - heat treat furnace;
 Z084 - heat treat furnace;
 Z085 - heat treat furnace;
 Z086 - heat treat furnace;
 Z087 - heat treat furnace;
 Z088 - heat treat furnace;
 Z089 - heat treat furnace;
 Z090 - thermal deburring;
 Z097 - endothermic gas furnace;
 Z098 - endothermic gas furnace;
 Z099 - endothermic gas furnace;
 Z100 - endothermic gas furnace;
 Z101 - endothermic gas furnace;
 Z102 - endothermic gas furnace;
 Z107 - chip storage;
 Z108 - chip salvage;
 Z109 - chip salvage;
 Z115 - storage tank;
 Z117 - storage tank;
 Z120 - storage tank;
 Z121 - storage tank;
 Z122 - storage tank;
 Z123 - storage tank;
 Z124 - storage tank;
 Z125 - storage tank;
 Z126 - storage tank;
 Z127 - storage tank;
 Z128 - storage tank;
 Z129 - storage tank;
 Z130 - storage tank;
 Z131 - storage tank;
 Z132 - storage tank;
 Z133 - storage tank;
 Z134 - storage tank;
 Z135 - storage tank;
 Z136 - storage tank;
 Z137 - storage tank;
 Z139 - storage tank;

Z142 - storage tank;
Z143 - storage tank;
Z144 - storage tank;
Z145 - storage tank;
Z146 - storage tank;
Z147 - storage tank;
Z148 - storage tank;
Z150 - gasoline storage tank;
Z151 - storage tank;
Z155 - storage tank;
Z156 - gasoline storage tank;
Z160 - gasoline dispensing;
Z167 - dryer;
Z174 - induction hardening;
Z175 - induction hardening;
Z176 - induction hardening;
Z222 - internal combustion engine;
Z223 - internal combustion engine;
Z224 - machining;
Z225 - machining;
Z226 - machining; and
Z227 - machining.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

- [Go to Part III for Emissions Unit B001](#)
- [Go to Part III for Emissions Unit B002](#)
- [Go to Part III for Emissions Unit B003](#)
- [Go to Part III for Emissions Unit B004](#)
- [Go to Part III for Emissions Unit F001](#)
- [Go to Part III for Emissions Unit K002](#)
- [Go to Part III for Emissions Unit P901](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: B001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
70 mmBtu/hr boiler fired with natural gas and #2 fuel oil	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil

2. Additional Terms and Conditions

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound of sulfur dioxide per million Btu actual heat input.
3. (Authority for terms II.1 and II.2: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for heat content and sulfur content and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
3. The permittee shall perform or require the supplier to perform the analyses for heat content and sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as,

ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

4. (Authority for terms III.1 - III.3: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons); and
 - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The deviation reports and oil analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. (Authority for terms IV.1 - IV.3: OAC rule 3745-77-07(A)(3)(c))

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.1.1 and A.1.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

For natural gas, the permittee may divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil, the permittee may divide the AP-42 (Table 1.3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.

If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).
 - c. Emission Limitation:

1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil

Applicable Compliance Method:

Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, using the equation in OAC rule 3745-18-04(F)(2).

If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010404 Emissions Unit ID: B001 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
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2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: B002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under

state law only.

1. None.

I. 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>
70 mmBtu/hr boiler fired with natural gas and #2 fuel oil	OAC rule 3745-17-07(A)	See A.1.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil

2. Additional Terms and Conditions

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound of sulfur dioxide per million Btu actual heat input.
3. (Authority for terms II.1 and II.2: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for heat content and sulfur content and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
3. The permittee shall perform or require the supplier to perform the analyses for heat content and sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.
4. (Authority for terms III.1 - III.3: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons); and
 - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The deviation reports and oil analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. (Authority for terms IV.1 - IV.3: OAC rule 3745-77-07(A)(3)(c))

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V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

For natural gas, the permittee may divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil, the permittee may divide the AP-42 (Table 1.3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.

If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).
 - c. Emission Limitation:

1.0 pound of sulfur dioxide per million Btu of actual heat input when burning #2 fuel oil

Applicable Compliance Method:

Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, using the equation in OAC rule 3745-18-04(F)(2).

If required, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010404 Emissions Unit ID: B002 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
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2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: B003 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
75.5 mmBtu/hr boiler fired with natural gas, landfill gas, and #2 fuel oil	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(Y)	1.0 pound of sulfur dioxide per million Btu of actual heat input

2. **Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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II. Operational Restrictions

1. The permittee shall burn only natural gas, landfill gas, and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu actual heat input.
3. The quality of the landfill gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu of actual heat input.
4. (Authority for terms II.1 - II.3: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, landfill gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for heat content and sulfur content and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
3. The permittee shall perform or require the supplier to perform the analyses for heat content and sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.
4. The permittee shall collect or require the landfill gas supplier to collect a representative sample of the landfill gas that is received for burning in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform or require the supplier to perform analyses of each landfill gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of landfill gas combusted, the permittee's or landfill gas supplier's analyses for sulfur content, heat content, density, and the calculated SO₂ emission rate (in pound/mmBtu).
6. (Authority for terms III.1 - III.5: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, landfill gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons); and
 - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's or landfill gas supplier's analyses for the landfill gas which is received for burning in this emissions unit. The permittee's or landfill gas supplier's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), density, and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
4. The deviation reports and fuel analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
5. (Authority for terms IV.1 - IV.4: OAC rule 3745-77-07(A)(3)(c))

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

For natural gas, the permittee may divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil, the permittee may divide the AP-42 (Table 1-3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.

For landfill gas, and if required for natural gas and #2 fuel oil; the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).
 - c. Emission Limitation:

1.0 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

For natural gas: the exclusive combustion of commercially available natural gas shall be considered adequate demonstration of compliance with this emissions limitation, or divide the AP-42 (Table 1.4-2, dated 7/98) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil: Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, using the equation in OAC rule 3745-18-04(F)(2).

For landfill gas: Compliance with this specification shall be demonstrated based upon the analytical results provided by the permittee or landfill gas supplier for the landfill gas received for burning using the equation in OAC rule 3745-18-04(F)(3).

If required, for natural gas, #2 fuel oil and landfill gas, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010404 Emissions Unit ID: B003 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: B004 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
75.5 mmBtu/hr boiler fired with natural gas, landfill gas, and #2 fuel oil	OAC rule 3745-17-07(A) OAC rule 3745-17-10(B)(1)	See A.I.2.a below. 0.020 pound of particulate emissions per million Btu of actual heat input

- 1.0 pound of sulfur dioxide per million Btu of actual heat input
- OAC rule 3745-18-54(Y)
2. **Additional Terms and Conditions**
- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas, landfill gas, and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu actual heat input.
3. The quality of the landfill gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.0 pound sulfur dioxide per million Btu of actual heat input.
4. (Authority for terms II.1 - II.3: OAC rule 3745-77-07(A)(1))

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

1. For each day during which the permittee burns a fuel other than natural gas, landfill gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for heat content and sulfur content and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
3. The permittee shall perform or require the supplier to perform the analyses for heat content and sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.
4. The permittee shall collect or require the landfill gas supplier to collect a representative sample of the landfill gas that is received for burning in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform or require the supplier to perform analyses of each landfill gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of landfill gas combusted, the permittee's or landfill gas supplier's analyses for sulfur content, heat content, density, and the calculated SO₂ emission rate (in pound/mmBtu).
6. (Authority for terms III.1 - III.5: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, landfill gas and/or #2 fuel oil was burned in this emissions unit.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons); and
 - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil received.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's or landfill gas supplier's analyses for the landfill gas which is received for burning in this emissions unit. The permittee's or landfill gas supplier's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), density, and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
4. The deviation reports and fuel analysis reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
5. (Authority for terms IV.1 - IV.4: OAC rule 3745-77-07(A)(3)(c))

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V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

For natural gas, the permittee may divide the AP-42 (Table 1.4-2, dated 7/98) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil, the permittee may divide the AP-42 (Table 1-3-1, dated 9/98) particulate emission factor of 2 pounds per thousand gallons by the #2 fuel oil higher heating value of 140 mmBtu per thousand gallons.

For landfill gas, and if required for natural gas and #2 fuel oil; the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-17-03(B)(9).
 - c. Emission Limitation:

1.0 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

For natural gas: the exclusive combustion of commercially available natural gas shall be considered adequate demonstration of compliance with this emissions limitation, or divide the AP-42 (Table 1.4-2, dated 7/98) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas by an average natural gas higher heating value of 1020 Btu per standard cubic foot natural gas.

For #2 fuel oil: Compliance with this specification shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil, using the equation in OAC rule 3745-18-04(F)(2).

For landfill gas: Compliance with this specification shall be demonstrated based upon the analytical results provided by the permittee or landfill gas supplier for the landfill gas received for burning in accordance with OAC rule 3745-18-04(F)(3).

If required, for natural gas, #2 fuel oil and landfill gas, the permittee shall demonstrate compliance using the methods and procedures provided in OAC rule 3745-18-04(A).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010404 Emissions Unit ID: B004 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
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2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: F001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
paved roadways and parking areas (see section A.1.2.a)	OAC rule 3745-17-07(B)(4)	no visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08(B), (B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c, A.I.2.d, and A.I.2.f through A.I.2.j)
unpaved roadways and parking areas (see section A.1.2.b)	OAC rule 3745-17-07(B)(5)	no visible particulate emissions except for 13 minutes during any 60-minute period
	OAC rule 3745-17-08(B), (B)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.e through A.I.2.j)

2. **Additional Terms and Conditions**

- a. The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
 - (a) paved roadways: East Drive, West Drive, and Truck Drive
paved parking areas: Parking Lots A, B, C, D and E
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
 - unpaved roadways: Segments 001 and 002
 - unpaved parking areas: Parking Lot F
- c. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by flushing with water and/or sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements.
- e. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to speed reduction to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- g. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- h. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- i. pen-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- j. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and each parking area in accordance with the following frequencies:

paved roadways and parking areas minimum inspection frequency

East Drive, West Drive, Truck Drive, weekly
Parking Lots A, B, C, D and E

unpaved roadways and parking areas minimum inspection frequency

Parking Lot F, Segments 001 and 002 weekly
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Toledo DES, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.The information required in section A.III.4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
5. (Authority for terms III.1 - III.4: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. **Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
3. (Authority for terms IV.1 and IV.2: OAC rule 3745-77-07(A)(3)(c))

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V. **Testing Requirements**

1. Compliance with the emission limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010404 Emissions Unit ID: F001 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: K002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
miscellaneous metal parts spray booth with water curtain	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	0.551 lb/hr of particulate emissions
	OAC rule 3745-21-09(U)(2)(e)(iii)	See A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 04-488)	See A.I.2.c and A.I.2.d below.

2. Additional Terms and Conditions

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The permittee shall employ no more than 5.0 gallons of coating(s) in this emissions unit in any one day.
- d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B)(1).

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II. Operational Restrictions

1. The permittee shall operate the water curtain system whenever this emissions unit is in operation.
2. (Authority for term II.1: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the water curtain system was not in service when the emissions unit was in operation.
2. The permittee shall collect and record the following information each day for the coating line:
 - a. the name and identification number of each coating employed;
 - b. the volume, in gallons, of each coating employed; and
 - c. the total volume, in gallons, of all of the coatings employed.
3. (Authority for terms III.1 and III.2: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any record showing that the water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 45

days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 45 days after the exceedance occurs.
3. (Authority for terms IV.1 and IV.2: OAC rule 3745-77-07(A)(3)(c))

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V. **Testing Requirements**

1. Compliance with the emission limitations and operational restriction in sections A.I.1, A.I.2.a, and A.II.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.551 lb/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be determined through emissions testing performed in accordance with OAC rule 3745-17-03(B)(10).
 - c. Operational Restriction:

5.0 gallons of coating per day

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.2.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010404 Emissions Unit ID: K002 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
2. Additional Terms and Conditions		

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0448010404 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: P901 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
14 million Btu, natural gas-fired reverberatory aluminum melting furnace with a wet scrubber on the combustion stack (process emissions) and a charging well with fugitive emissions, partially enclosed and ducted to a wet scrubber (fugitive emissions); 3.5 tons per hour production capacity	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	See A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	See A.I.2.a below.
	OAC rule 3745-18-06(E)(2)	Sulfur dioxide emissions shall not exceed 69 pounds per hour.
		Visible particulate emissions shall not exceed 20%

OAC rule 3745-31-05(A)(3) established in PTI 04-706 as modified on January 24, 2002

opacity, as a 6-minute average, from each stack.

Particulate emissions shall not exceed 2.5 pounds per hour total from the combustion stack scrubber and charging well scrubber combined.

Particulate emissions shall not exceed 6.9 tons per year from the combustion stack scrubber and charging well scrubber combined.

Particulate emissions shall not exceed 0.008 grain/dry standard cubic foot from the charging well scrubber.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B), 3745-17-08(B), and 3745-18-06.

2. Additional Terms and Conditions

- a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- b. The capture system serving the charging well shall minimize or eliminate visible emissions of fugitive dust.

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II. Operational Restrictions

1. The permittee shall operate each wet scrubbing system whenever this emissions unit is in operation, except for short periods of time during which maintenance is performed when the unit is only holding the molten metal at temperature.
2. The permittee shall operate and maintain the reverberatory furnace, its charging well and hoods so as to minimize the possibility of uncontrolled emissions. Hoods shall be constructed so as to minimize warpage due to high temperature and physical damage. All hood doors shall be kept closed except during times when access to the furnace or charging well is required. Should any hoods or doors become damaged, they shall be repaired as soon as possible, but not more than two weeks from the date the hood or door became damaged or warped.
3. The atomizing air pressure for the nozzles for each scrubber shall be continuously maintained at a value of not less than 20 psig at all times while the emissions unit is in operation.

The scrubber water flow rate for each scrubber shall be continuously maintained at a value of not less than 3 gallons per minute at all times while the emissions unit is in operation.
4. The permittee shall burn only natural gas as fuel and shall charge only clean materials in this emissions unit.
5. (Authority for terms II.1 - II.4: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the atomizing air pressure for the nozzles and the scrubber water flow rate for each scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information once each day when the emissions unit is in operation:
 - a. the atomizing air pressure for the nozzles for each scrubber, in psig;
 - b. the scrubber water flow rate for each scrubber, in gallons per minute; and
 - c. the downtime for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
2. The permittee shall maintain daily production records that document the metal throughput for this furnace, in tons.
3. For each day during which the permittee burns a fuel other than natural gas or charges other than clean material, the permittee shall maintain a record of the type and quantity of fuel burned and the type and quantity of unclean material charged in this emissions unit.
4. The permittee shall maintain a record of each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.
5. (Authority for terms III.1 - III.4: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. the atomizing air pressure for the nozzles for each scrubber; and
 - b. the scrubber water flow rate for each scrubber.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned and when other than clean materials were charged in this emissions unit.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
5. (Authority for terms IV.1 - IV.4: OAC rule 3745-77-07(A)(3)(c))

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 3-minute average, for fugitive emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(3) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
 - b. Emission Limitation:

69 lbs/hr of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(A).
 - c. Emission Limitation:

20% opacity as a 6-minute average from each stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(1) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
 - d. Emission Limitation:

2.5 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
 - e. Emission Limitation:

6.9 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated using an annual summation of the metal throughputs recorded in section A.III.2, multiplied by the particulate emission factor, in tons of particulates per ton of metal processed, determined during the most recent stack test which demonstrated compliance with the hourly emissions limitation for particulates.
 - f. Emission Limitation:

0.008 grain of particulate emissions per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

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VI. Miscellaneous Requirements

1. No chlorination by the injection of chlorine gas shall take place in this emissions unit. This exclusion does not restrict the use of powdered fluxes which may contain chloride salts.

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Facility ID: 0448010404 Emissions Unit ID: P901 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010404 Emissions Unit ID: P902 Issuance type: Title V Final Permit

A. **State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
14 million Btu, natural gas-fired reverberatory aluminum melting furnace with a wet scrubber on the combustion stack (process emissions) and a charging well with fugitive emissions, partially enclosed and ducted to a wet scrubber (fugitive emissions); 3.5 tons per hour production capacity	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	See A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	See A.I.2.a below.
	OAC rule 3745-18-06(E)(2)	Sulfur dioxide emissions shall not exceed 69 pounds per hour.
	OAC rule 3745-31-05(A)(3) established in PTI 04-889 as modified on January 24, 2002	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, from each stack. Particulate emissions shall not exceed 2.5 pounds per hour total from the combustion stack scrubber and charging well scrubber combined. Particulate emissions shall not exceed 6.9 tons per year from the combustion stack scrubber and charging well scrubber combined. Particulate emissions shall not exceed 0.008 grain/dry standard cubic foot from the charging well scrubber. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B), 3745-17-08(B), and 3745-18-06.

2. **Additional Terms and Conditions**

- a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- b. The capture system serving the charging well shall minimize or eliminate visible emissions of fugitive dust.

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II. **Operational Restrictions**

1. The permittee shall operate each wet scrubbing system whenever this emissions unit is in operation, except for short periods of time during which maintenance is performed when the unit is only holding the molten metal at temperature.
2. The permittee shall operate and maintain the reverberatory furnace, its charging well and hoods so as to minimize the possibility of uncontrolled emissions. Hoods shall be constructed so as to minimize warpage

due to high temperature and physical damage. All hood doors shall be kept closed except during times when access to the furnace or charging well is required. Should any hoods or doors become damaged, they shall be repaired as soon as possible, but not more than two weeks from the date the hood or door became damaged or warped.

3. The atomizing air pressure for the nozzles for each scrubber shall be continuously maintained at a value of not less than 20 psig at all times while the emissions unit is in operation.

The scrubber water flow rate for each scrubber shall be continuously maintained at a value of not less than 3 gallons per minute at all times while the emissions unit is in operation.

4. The permittee shall burn only natural gas as fuel and shall charge only clean materials in this emissions unit.
5. (Authority for terms II.1 - II.4: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the atomizing air pressure for the nozzles and the scrubber water flow rate for each scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information once each day when the emissions unit is in operation:

- a. the atomizing air pressure for the nozzles for each scrubber, in psig;
 - b. the scrubber water flow rate for each scrubber, in gallons per minute; and
 - c. the downtime for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
2. The permittee shall maintain daily production records that document the metal throughput for this furnace, in tons.
 3. For each day during which the permittee burns a fuel other than natural gas or charges other than clean material, the permittee shall maintain a record of the type and quantity of fuel burned and the type and quantity of unclean material charged in this emissions unit.
 4. The permittee shall maintain a record of each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.
 5. (Authority for terms III.1 - III.4: OAC rule 3745-77-07(A)(3)(a) and (b))

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. the atomizing air pressure for the nozzles for each scrubber; and
 - b. the scrubber water flow rate for each scrubber.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each time damaged or warped hoods or doors for the furnace were not repaired within two weeks.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned and when other than clean materials were charged in this emissions unit.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
5. (Authority for terms IV.1 - IV.4: OAC rule 3745-77-07(A)(3)(c))

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.1.1 and A.1.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
20% opacity as a 3-minute average, for fugitive emissions
Applicable Compliance Method:
If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC

rule 3745-17-03(B)(3) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation:

69 lbs/hr of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(A).

c. Emission Limitation:

20% opacity as a 6-minute average from each stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance based upon the requirements specified in OAC rule 3745-17-03(B)(1) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

2.5 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

e. Emission Limitation:

6.9 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated using an annual summation of the metal throughputs recorded in section A.III.2, multiplied by the particulate emission factor, in tons of particulates per ton of metal processed, determined during the most recent stack test which demonstrated compliance with the hourly emissions limitation for particulates.

f. Emission Limitation:

0.008 grain of particulate emissions per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

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VI. **Miscellaneous Requirements**

1. No chlorination by the injection of chlorine gas shall take place in this emissions unit. This exclusion does not restrict the use of powdered fluxes which may contain chloride salts.

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Facility ID: 0448010404 Emissions Unit ID: P902 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None