

Facility ID: 0448041059 Issuance type: Final State Permit To Operate

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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.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0448041059 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901 - All Ohio Ready Mix - Plant 480, 220 cubic yards per hour		
Truck Loading	OAC rule 3745-31-05(A)(3) (PTI 04-880, modified 1/2007)	The emissions of Total Suspended Particulate (TSP) shall not exceed 0.12 pound per hour or 0.53 ton per year.  Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
Transfer to Elevated Bins	OAC rule 3745-17-07(B)(1)	See Sections II.A.2.a. and 2.b.
	OAC rule 3745-17-08(B), (B)(3)	See Section II.A.2.c.
Weigh Hopper Loading	OAC rule 3745-31-05(A)(3) (PTI 04-880, modified 1/2007)	TSP emissions shall not exceed 0.84 pound per hour or 3.7 tons per year.  Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-07(B)(1)	See Sections II.A.2.a and 2.b.
Silo Vents and Cement Unloading	OAC rule 3745-17-08(B), (B)(3)	See Section II.A.2.c.
	OAC rule 3745-31-05(A)(3) (PTI 04-880, modified 1/2007)	TSP emissions shall not exceed 0.007 pound per hour or 0.03 ton per year.  No visible emissions of fugitive dust from the enclosure and the fabric filters during weigh hopper loading.
Silo Vents and Cement Unloading	OAC rule 3745-17-07(B)(1)	See Sections II.A.2.a and 2.b.
	OAC rule 3745-17-08(B), (B)(3)	See Section II.A.2.c.
Silo Vents and Cement Unloading	OAC rule 3745-31-05(A)(3) (PTI 04-880, modified 1/2007)	The emissions of TSP from the cement unloading shall not exceed 0.24 pound per hour or 1.05 tons per year.  The emissions of TSP from the silo vents shall not exceed 0.05 pound per hour or 0.21 ton per year.
		No visible emissions of fugitive dust from any silo vents or from cement unloading to the silo.  See Sections II.A.2.a and 2.b.

Storage Piles	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B), (B)(3) OAC rule 3745-31-05(A)(3) (PTI 04-880, modified 1/2007)	See Section II.A.2.c. See Section II.A.2.c. The emissions of TSP shall not exceed 0.06 pound per hour or 0.25 ton per year from wind erosion.  The emissions of TSP shall not exceed 0.05 pound per hour or 0.20 ton per year from load-in operations.  The emissions of TSP shall not exceed 0.4 pound per hour or 1.75 tons per year from load-out operations.  There shall be no visible emissions of fugitive dust except for a period of time not to exceed one minute in any 60-minute observation period.
Plant Roadways and Parking Areas	OAC rule 3745-17-07(B)(6) OAC rule 3745-17-08(B), (B)(3), (B)(6), (B)(7) OAC rule 3745-31-05(A)(3) (PTI 04-880, modified 1/2007)	See Sections II.A.2.a and 2.b. See Section II.A.2.c. See Section II.A.2.c.  The emissions of TSP shall not exceed 0.001 pound per hour or 2.1 tons per year from unpaved roadways and parking areas.  The emissions of TSP shall not exceed 0.001 pound per hour or 1.65 tons per year from paved roadways and parking areas.  There shall be no visible emissions of fugitive dust from any unpaved roadway or parking area except for a period of time not to exceed three minutes in any 60-minute observation period.  There shall be no visible emissions of fugitive dust from any paved roadway or parking area except for a period of time not to exceed one minute in any 60-minute observation period.
	OAC rule 3745-17-07(B)(4), (B)(5) OAC rule 3745-17-08(B), (B)(2), (B)(7), (B)(8), (B)(9)	See Section II.A.2.c. See Section II.A.2.c.

**2. Additional Terms and Conditions**

(a) The permittee shall employ the following best available control measures for each process for the purpose of ensuring compliance with the above-mentioned applicable requirements:

i. Control of Fugitive Dust from Plant Roadways and Parking Areas

The permittee shall treat the roadways and parking areas with water, or a chemical dust suppressant in order to minimize or eliminate at all times visible emissions of fugitive dust generated by vehicular traffic. Frequency of application shall be as needed. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

Any material carried off of the source owner's property and deposited onto the city streets by the vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly in such manner so as to minimize or prevent resuspension.

A maximum speed limit of five (5) miles per hour for unpaved roadways and ten (10) mph for paved roadways, shall be posted and enforced on the property.

Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.

ii. Visible Emission Limitations for Roadways and Parking Areas

There shall be no visible particulate emissions from any paved roadways or parking area except for a period of time not to exceed one minute during any sixty-minute observation period.

There shall be no visible particulate emission from any unpaved road or parking area except for a period of time not to exceed three minutes during any sixty-minute observation period.

These control systems shall be sufficient to minimize or eliminate visible emissions of fugitive dust from this emissions unit. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

iii. Weigh Hopper Loading of Cement, Sand and Aggregate

The permittee shall adequately enclose the weigh hopper. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust. There shall be no visible emissions from the weigh-hopper.

The aggregate and sand to be loaded into the weigh-hopper and the conveyor shall have a moisture

content sufficient so as to minimize or eliminate at all times visible emissions of fugitive dust. The transfer conveyor discharge shall be enclosed and vented to the fabric filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture. The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emission from the outlet, whichever is less stringent.

iv. Cement Transferring and Storage

The permittee shall pneumatically transfer the cement to storage. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement emanation from the delivery vehicle shall be cause for the immediate halt of the unloading process and the refusal of the cement load until the situation is corrected.

The cement silo vent shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the points of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is greater.

These control systems shall be operated at all times during cement unloading and these controls shall be sufficient to minimize or eliminate visible emissions of fugitive dust from this emissions unit. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The hourly and annual emission limitations specified above are based upon the emission unit's potential to emit. Therefore, it is not necessary to develop monitoring, recordkeeping, and reporting requirements to ensure compliance with these emission limitations.

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. Operational Restrictions**

1. None

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving this emissions unit. No inspections are required on days the material handling operations are not in operation. The presence or absence of any visible particulate emissions shall be recorded electronically or in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
  - a. the (location and) color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

The information above shall be kept separately for each fabric filter serving this emissions unit.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each sand and/or aggregate transfer point and truck loading serving this emissions unit. No inspections are required on days the material handling operations are not in operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
  - a. the (location and) color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

The information above shall be kept separately for each sand and/or aggregate transfer point and truck loading serving this emissions unit.

3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or Local Air Agency, 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.
5. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - 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.

The information in 5.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which note the following:

- a. identify all days during which any abnormal visible fugitive particulate emissions were observed from each sand and/or aggregate transfer point and truck loading serving this emissions unit;
- b. describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions;
- c. identify all days during which any visible particulate emissions were observed from any fabric filter serving this emissions unit; and
- d. describe any corrective actions taken to eliminate the visible particulate emissions.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**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:

Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average for all truck loading operations.

Applicable Compliance Method:

If required, compliance with the emission limitation for roadways and parking areas 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) and (B)(4)(b) of OAC rule 3745-17-03.

b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average during the transfer of material to elevated bins.

Applicable Compliance Method:

If required, compliance with the emission limitation for roadways and parking areas 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) and (B)(4)(b) of OAC rule 3745-17-03.

c. Emission Limitation:

No visible emissions from the fabric filters on the weigh hopper serving this emissions unit.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fabric filters on the weigh hopper shall be determined in accordance with method 22 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, 1997 and the procedures specified in OAC rule 3745-17-03(B)(4).

d. Emission Limitation:

No visible emissions during cement unloading operations and from the silo vents.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fabric filters on the weigh hopper shall be determined in accordance with method 22 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, 1997 and the procedures specified in OAC rule 3745-17-03(B)(4).

e. Emission Limitation:

There shall be no visible emissions of fugitive dust except for a period of time not to exceed one minute in any 60-minute observation period from all storage piles.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the storage piles 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)(c) of OAC rule 3745-17-03.

f. Emission Limitation:

There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period from all unpaved plant roadways and parking areas.

Applicable Compliance Method:

If required, compliance with the emission limitation for unpaved roadways and parking areas 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.

g. Emission Limitation:

There shall be no visible emissions of fugitive dust except for a period of time not to exceed one minute in any 60-minute observation period from all paved roadways and parking areas.

## Applicable Compliance Method:

If required, compliance with the visible emission limitation for the paved roadways and parking areas 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.

## h. Emission Limitation:

The emissions of Total Suspended Particulate (TSP) shall not exceed 0.12 pound per hour for truck loading operations.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at the maximum throughput. If required, compliance with TSP emissions shall be determined through calculations performed as follows: multiply the emission factor for truck loading operations in AP-42, Chapter 11.12 (revised 6/06) by the maximum throughput.

## i. Emission Limitation:

The emissions of TSP shall not exceed 0.53 ton per year for truck loading operations.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at a maximum total operating rate of 8,760 hours per year. If required, compliance shall be determined through calculations performed as follows: multiply the hourly allowable emissions rate (0.12 lb/hr TSP) by the 8,760 hours of operation and divide by 2,000 pounds per ton.

## j. Emission Limitation:

The emissions of TSP shall not exceed 0.84 pound per hour during material transfer to elevated bins.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at the maximum throughput. If required, compliance with TSP emissions shall be determined through calculations performed as follows: multiply the emission factor for material transfer to elevated bins in AP-42, Chapter 11.12 (revised 6/06) by the maximum throughput.

## k. Emission Limitation:

The emissions of TSP shall not exceed 3.7 tons per year during material transfer to elevated bins.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at a maximum total operating rate of 8,760 hours per year. If required, compliance shall be determined through calculations performed as follows: multiply the hourly allowable emissions rate (0.84 lb/hr TSP) by the 8,760 hours of operation and divide by 2,000 pounds per ton.

## l. Emission Limitation:

The emissions of TSP shall not exceed 0.007 pound per hour for weigh hopper loading.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at the maximum throughput. If required, compliance with TSP emissions shall be determined through calculations performed as follows: multiply the emission factor for weigh hopper loading in AP-42, Chapter 11.12 (revised 6/06) by the maximum throughput.

## m. Emission Limitation:

The emissions of TSP shall not exceed 0.03 ton per year for weigh hopper loading.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at a maximum total operating rate of 8,760 hours per year. If required, compliance shall be determined through calculations performed as follows: multiply the hourly allowable emissions rate (0.007 lb/hr TSP) by the 8,760 hours of operation and divide by 2,000 pounds per ton.

## n. Emission Limitation:

The emissions of TSP shall not exceed 0.24 pound per hour for cement unloading operations.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at the maximum throughput. If required, compliance with TSP emissions shall be determined through calculations performed as follows: multiply the emission factor for cement unloading in AP-42, Chapter 11.12 (revised 6/06) by the maximum throughput.

## o. Emission Limitation:

The emissions of TSP shall not exceed 1.05 tons per year for cement unloading operations.

## Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at a maximum total operating rate of 8,760 hours per year. If required, compliance shall be determined through calculations

performed as follows: multiply the hourly allowable emissions rate (0.24 lb/hr TSP) by the 8,760 hours of operation and divide by 2,000 pounds per ton.

p. Emission Limitation:

The emissions of TSP shall not exceed 0.05 pound per hour for silo vents.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at the maximum throughput. If required, compliance with TSP emissions shall be determined through calculations performed as follows: multiply the emission factor for storage silos in AP-42, Chapter 11.12 (revised 6/06) by the maximum throughput.

q. Emission Limitation:

The emissions of TSP shall not exceed 0.21 ton per year for silo vents.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit at a maximum total operating rate of 8,760 hours per year. If required, compliance shall be determined through calculations performed as follows: multiply the hourly allowable emissions rate (0.05 lb/hr TSP) by the 8,760 hours of operation and divide by 2,000 pounds per ton.

r. Emission Limitation:

The emissions of TSP shall not exceed 0.06 pound per hour for wind erosion from all storage piles.

Applicable Compliance Method:

Compliance with fugitive TSP limitations shall be determined by using the emission factor equations in Section 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for wind erosion. This emission limit was based on a maximum production of 25,000 tons per year and a 95 % overall control efficiency for TSP.

s. Emission Limitation:

The emissions of TSP shall not exceed 0.25 ton per year for wind erosion from all storage piles.

Applicable Compliance Method:

Compliance with fugitive TSP limitations shall be determined by using the emission factor equations in Section 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for wind erosion. This emission limit was based on a maximum production of 25,000 tons per year and a 95 % overall control efficiency for TSP.

t. Emission Limitation:

The emissions of TSP shall not exceed 0.05 pound per hour for load-in operations from all storage piles.

Applicable Compliance Method:

Compliance with fugitive TSP limitations shall be determined by using the emission factor equations in Section 13.2.4, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations. This emission limit was based on a maximum production of 25,000 tons per year and a 95% overall control efficiency for TSP.

u. Emission Limitation:

The emissions of TSP shall not exceed 0.20 ton per year for load-in operations from all storage piles.

Applicable Compliance Method:

Compliance with fugitive TSP limitations shall be determined by using the emission factor equations in Section 13.2.4, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations. This emission limit was based on a maximum production of 25,000 tons per year and a 95% overall control efficiency for TSP.

v. Emission Limitation:

The emissions of TSP shall not exceed 0.4 pound per hour for load-out operations from all storage piles.

Applicable Compliance Method:

Compliance with fugitive TSP limitations shall be determined by using the emission factor equations in Section 13.2.4, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-out operations. This emission limit was based on a maximum production of 25,000 tons per year and a 95% overall control efficiency for TSP.

w. Emission Limitation:

The emissions of TSP shall not exceed 1.75 tons per year for load-out operations from all storage piles.

Applicable Compliance Method:

Compliance with fugitive TSP limitations shall be determined by using the emission factor equations in Section 13.2.4, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-out operations. This emission limit was based on a maximum production of 25,000 tons per year and a 95% overall control efficiency for TSP.

## x. Emission Limitation:

The emissions of TSP shall not exceed 0.001 pound per hour all unpaved plant roadways and parking areas.

## Applicable Compliance Method:

If required, compliance with the fugitive TSP limitation shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for unpaved roadways.

This emission limit was based on a maximum of 2,500 vehicle miles traveled per year, and a 95% control efficiency for TSP.

## y. Emission Limitation:

The emissions of TSP shall not exceed 2.1 tons per year for all unpaved plant roadways and parking areas.

## Applicable Compliance Method:

If required, compliance with the fugitive TSP limitation shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for unpaved roadways.

This emission limit was based on a maximum of 2,500 vehicle miles traveled per year, and a 95% control efficiency for TSP.

## z. Emission Limitation:

The emissions of TSP shall not exceed 0.001 pound per hour for all paved plant roadways and parking areas.

## Applicable Compliance Method:

If required, compliance with the fugitive TSP limitation shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for paved roadways.

This emission limit was based on a maximum of 2,500 vehicle miles traveled per year, and a 95% control efficiency for TSP.

## aa. Emission Limitation:

The emissions of TSP shall not exceed 1.65 tons per year for all paved plant roadways and parking areas.

## Applicable Compliance Method:

If required, compliance with the fugitive TSP limitation shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for paved roadways.

This emission limit was based on a maximum of 2,500 vehicle miles traveled per year, and a 95% control efficiency for TSP.

**F. Miscellaneous Requirements**

1. None