

Texas Commission on Environmental Quality
Air Permits Division

New Source Review (NSR) Boilerplate Special Conditions

This information is maintained by the Combustion/Coatings NSR Section and is subject to change. Last update was made **October 2006**. These special conditions represent current NSR boilerplate guidelines and are provided for informational purposes only. The special conditions for any permit or amendment are subject to change through TCEQ case by case evaluation procedures [30 TAC 116.111(a)]. Please contact the appropriate Combustion/Coatings NSR Section management if there are questions related to the boilerplate guidelines.

Enclosed Abrasive Blasting - Non-Enclosed Abrasive Blasting

1. This permit authorizes enclosed abrasive blasting facilities located at _____ (street address), (city).

EMISSION LIMITATIONS

2. Except for those periods described in 30 Texas Administrative Code (30 TAC) §§ 101.201 and 211, opacity of particulate matter (PM) emissions shall not exceed 5 percent. This determination shall be made first by observing for visible emissions. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point(s). If visible emissions are observed from the stack(s), then opacity shall be determined by Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed quarterly.

OPERATING LIMITATIONS

3. The abrasive cleaning is limited to coal slag, baking soda, garnet, copper slag, and steel grit or any other material with a crystalline silica less than or equal to 1 percent of total particulate weight.

Preferred - when emission rate(s) are based on outlet grain loading.

4. Emissions of PM generated from the abrasive blasting shall be captured and routed through a dust collection system with has a maximum outlet grain loading of equal to or less than 0.01 grain per dry standard cubic foot and with airflow of at least (specify) standard cubic feet per minute and pressure drop of no more than (specify) inches water column.

Alternate - when emission rate(s) are based on media usage and baghouse/dust collector efficiency.

4. Emissions of PM generated from the abrasive blasting shall be captured and routed through a baghouse with a control efficiency of 99.9 percent and pressure drop of no more than (specify) inches water column.
5. The dust collection system shall be maintained in a good condition at all times. Documentation of PM deposition originating from this site beyond the property line of this site shall be considered as demonstrating that the filtration system is not being maintained in good condition.

RECORDKEEPING

Case 1 – Recordkeeping for emission rates based on outlet grain loading.

6. General Condition No. 7 regarding information and data to be recorded and maintained on file is supplemented as follows and shall be used to demonstrate compliance with the MAERT:
 - A. Environmental Data Sheets or Material Safety Data Sheets for materials in use.
 - B. Hours of abrasive blasting operations and annual media usage.
 - C. A record of the air contaminant emissions from Emission Points (specify) in tons per year (TPY) for the rolling 12 previous months.

Case 1 – Recordkeeping for emission rates based on media usage and baghouse efficiency.

6. General Condition No. 7 regarding information and data to be recorded and maintained on file is supplemented as follows and shall be used to demonstrate compliance with the MAERT:
 - A. Environmental Data Sheets or Material Safety Data Sheets for materials in use.
 - B. Actual daily hours of abrasive blasting operations and daily usage of media usage of media.
 - C. A monthly record of the air contaminant emissions from Emission Points (specify) in pounds per hour (lb/hr) as a daily average and in tons per year (TPY) for the rolling 12 previous months.

POLLUTION PREVENTION

7. The baghouse/dust collector waste shall be removed and disposed of in such a manner that prevents trapped PM from escaping into the atmosphere.

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Non-enclosed Abrasive blasting

1. This permit authorizes non-enclosed abrasive blasting facilities located at _____ (street address), (city).

EMISSION LIMITATIONS

2. Except for those periods described in 30 Texas Administrative Code (30 TAC) §§ 101.201 and 211, opacity of particulate matter (PM) emissions shall not exceed five percent. This determination shall be made first by observing for visible emissions. Observations shall be made at least 15 feet and no more than 0.25 mile from the property line nearest to the source of the non-enclosed emissions. If visible emissions are observed crossing the nearest property lines, then opacity shall be determined by Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 22 Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed and recorded quarterly.
3. Emissions from the facilities shall comply with 30 Texas Administrative Code (30 TAC) § 101.4 regarding nuisance. If compliance with 30 TAC § 101.4 so requires, the permit shall be amended to control nuisance-causing emissions either through process controls or additional emission controls.

OPERATING LIMITATIONS

4. The abrasive cleaning is limited to coal slag, baking soda, garnet, copper slag, and steel grit or any other material with a crystalline silica less than or equal to 1 percent of total particulate weight.
5. Abrasive blasting operation shall be conducted only while parts are in the designated blasting area as represented in the permit application.

6. Abrasive blasting operations shall be conducted within (specify)-sided shrouds installed and must be (specify)-foot high. Shrouds shall have a shade factor of 85 for particles 100 grit or greater. Shade factor is defined as the percent of area impermeable to particles or sunlight.

RECORDKEEPING

7. General Condition No. 7 regarding information and data to be recorded and maintained on file is supplemented as follows and shall be used to demonstrate compliance with the MAERT:
 - A. Environmental Data Sheets or Material Safety Data Sheets for materials in use.
 - B. Actual daily hours of abrasive blasting operations and daily usage of media usage.
 - C. A monthly record of the air contaminant emissions from Emission Points (specify) in lb/hr as a daily average and in tons per year (TPY) for the rolling 12 previous months.

POLLUTION PREVENTION

8. PM captured by using shrouds around the abrasive blasting area shall be removed and disposed of in such a manner that prevents visible dust emissions. The spent media may be stored in piles prior to removal from the site if they are covered with shroud material or other fabric covers that are free of holes. Alternatively the piles shall be equipped with a water spray system to limit PM emissions.