40 CFR 63, Subpart XXXXXX – Dry Abrasive Blasting

1. <u>GENERALLY AVAILABLE CONTROL TECHNOLOGY</u> - The Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements as promulgated in 40 CFR 63, Subpart XXXXXX - "National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories".

a. Management Practices

- i. <u>Standards for dry abrasive blasting of objects performed in totally enclosed and unvented blast chambers</u> To minimize emissions of the metal finishing hazardous air pollutants (MFHAP) cadmium, chromium, lead, manganese, and nickel, each dry abrasive blasting operation shall meet the following management practices:
 - A. Minimize dust generation during emptying of abrasive blasting enclosures; and
 - B. Operate all equipment associated with dry abrasive blasting operations according to the manufacturer's instructions.
- ii. <u>Standards for dry abrasive blasting of objects performed in vented enclosures</u> To minimize emissions of the metal finishing hazardous air pollutants (MFHAP) cadmium, chromium, lead, manganese, and nickel, each dry abrasive blasting operation shall meet the following management practices:
 - A. emissions shall be captured and vented to a filtration control device. The Permittee shall operate the filtration control device according to manufacturer's instructions. The Permittee must demonstrate compliance by maintaining a record of the manufacturer's specifications.
 - B. Minimize excess dust in the surrounding area to reduce MFHAP emissions.
 - C. Enclose dusty abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive material.
 - D. Operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions.
- iii. Standards for dry abrasive blasting of objects greater than eight (8) feet in any one dimension To minimize emissions of the metal finishing hazardous air pollutants (MFHAP) cadmium, chromium, lead, manganese, and nickel, each dry abrasive blasting operation shall meet the following management practices:
 - A. Minimize excess dust in the surrounding area to reduce MFHAP emissions.
 - B. Enclose abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive material.
 - C. Operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions.

- D. The Permittee shall not re-use dry abrasive blasting media unless contaminants (i.e., any material other than the base metal) have been removed by filtration or screening, and the abrasive material conforms to its original size.
- E. Whenever practicable, the Permittee shall switch from a high particulate matter (PM)-emitting blast media (e.g., sand) to low PM-emitting blast media (e.g., crushed glass, specular hematite, steel shot, aluminum oxide), where PM is a surrogate for the metal HAP's.

b. Monitoring Requirements

- i. Requirements for dry abrasive blasting of objects greater than eight (8) feet in any one dimension To assure compliance with the management practices above, the Permittee shall perform visual determinations of fugitive emissions, as specified in 40 CFR 63.11517(b).
 - A. For dry abrasive blasting operations performed outdoors, the visual determination of fugitive emissions shall be performed at the fence line or property boundary nearest to the outdoor abrasive blasting operation.
 - B. For dry abrasive blasting operations performed indoors, the visual determination of fugitive emissions shall be performed at the primary vent, stack, exit, or opening from the building containing the abrasive blasting operation.
 - C. The visual determination of fugitive dust must be performed daily and in accordance with Method 22 (40 CFR Part 60, Appendix A-7). The determination must be performed while the dry abrasive blasting operations are operating under normal conditions. The duration of each Method 22 must be at least fifteen (15) minutes, and visible emissions will be considered to be present if they are detected for more than six (6) minutes of the fifteen (15) minute period.
 - D. If there are no visible fugitive emissions detected in ten (10) consecutive daily tests, the frequency may be reduced to testing once every calendar week (five (5) work days of operation). If visible fugitive emissions are detected during these tests, the Permittee must resume daily testing of the blasting operations during normal operations.
 - E. If there are no visible fugitive emissions detected in four (4) consecutive weekly tests, the frequency may be reduced to testing once every calendar month (twenty-one (21) work days of operation). If visible fugitive emissions are detected during these tests, the Permittee must resume weekly testing of the blasting operations during normal operations.
 - F. If there are no visible fugitive emissions detected in three (3) consecutive monthly tests, the frequency may be reduced to testing once every three calendar months (sixty (60) work days of operation). If visible fugitive emissions are detected during these tests, the Permittee must resume monthly testing of the blasting operations during normal operations.

- c. <u>Recordkeeping Requirements</u> In accordance with 40 CFR 63.11519(c), the Permittee shall maintain records of the following:
 - i. Each notification and report submitted to comply with this subpart and documentation supporting each;
 - ii. Any applicability determinations listing equipment included in its affected source, as well as any changes to the determination and on what date they occurred;
 - iii. For each dry abrasive blasting operation of objects greater than eight (8) feet in any one dimension, the date and results of each visual determination of fugitive emissions, a description of any corrective action taken subsequent to the test, and the date and results of any follow-up visual determination of fugitive emissions performed after the corrective actions.
 - iv. The manufacturer's specifications for each control device used to comply with the management practices; and
 - v. Manufacturer's instructions for any equipment associated with the dry abrasive blasting operations.
 - vi. The records must be maintained for a total of five (5) years. The records must be kept on-site for two (2) years and made available to DAQ personnel upon request. The records can be maintained off-site for the remaining three (3) years.
- d. <u>Reporting Requirements</u> In addition to the notification requirements of the Environmental Protection Agency (EPA), the Permittee is required to <u>NOTIFY</u> the Regional Supervisor, DAQ, in <u>WRITING</u>, of the following:
 - i. An initial notification must be submitted no later than July 25, 2011 for any existing source subject to this Subpart or the later of November 20, 2008 or 120 days after the initial startup of a new source subject to this Subpart. The notice shall contain the following information:
 - A. The name, address, phone number and e-mail address of the owner and operator;
 - B. The address (physical location) of the affected source;
 - C. An identification of the relevant standards (in this case 40 CFR 63, Subpart XXXXXX); and
 - D. A brief description of the type of operation.
 - ii. A notification of compliance status must be submitted on or before November 22, 2011 for any existing source subject to this Subpart or the later of November 20, 2008 or 120 days after the initial startup of a new source subject to this Subpart. The notice shall contain the following information:
 - A. The company's name and address;
 - B. A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and

completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this Subpart; and

- C. The date of the notification of compliance status.
- iii. An annual compliance certification must be submitted by January 31 of each year. The report shall contain the following information:
 - A. Company name and address;
 - B. A statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
 - C. Date of report and beginning and ending dates of the reporting period;
 - D. For each dry abrasive blasting operation of objects greater than eight (8) feet in any one dimension, the date of each visual determination of fugitive emissions which resulted in detection of visible emissions, a description of the corrective actions taken subsequent to the test, and the date and results of the follow-up visual determination of fugitive emissions performed after the corrective actions.