

15A NCAC 2D .1111 "MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY" -

The Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" 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", for the processes of **Dry abrasive blasting** (§63.11516(a)); **Machining** (§63.11516(b)); **Dry grinding and dry polishing** (§63.11516(c)); **Spray painting** (§63.11516(d) and (e)); **Welding** (§63.11516(f)), including Subpart A "General Provisions."

- a. NESHAP Operational Standards - **Spray painting** (§63.11516(d) and (e)) -
As required by 15A NCAC 2D .1111 and 40 CFR 63, Subpart XXXXXX, the following operations standards are required for spray painting operations using paints that contain metal fabrication and finishing HAP (MFHAP):

Paints containing MFHAP means a paint that contains cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight, or contains manganese in an amount greater than or equal to 1.0 percent by weight.

- i. The Permittee must use spray booths or spray rooms that have a full roof, at least two complete walls, and one or two complete side curtains or other barrier material so that all four sides are covered. The spray booths or spray rooms must be ventilated so that air is drawn into the booth and leaves only through the filter. The roof may contain narrow slots for connecting fabricated products to overhead cranes, and/or for cords or cables.
- ii. The Permittee must use spray booths or spray rooms that are fitted with a type of filter technology that is demonstrated to achieve at least 98 percent capture of MFHAP. The Permittee must use the procedures listed in 40 CFR 63.11516(d)(1)(ii) to demonstrate the filter efficiency.
- iii. The Permittee must perform regular inspection and replacement of the filters in all spray booths or spray rooms according to manufacturer's instructions, and maintain documentation of these activities, as detailed in 40 CFR 63.11519(c)(5).
- iv. As an alternative to the requirements listed in Paragraphs a.i through a.iii above, the Permittee may use spray booths or spray rooms equipped with a water curtain, called "waterwash" or "waterspray" booths or spray rooms that are operated and maintained according to the manufacturer's specifications and that achieve at least 98 percent control of MFHAP.

- v. The Permittee must apply all paints applied via spray-applied painting with a high-volume, low-pressure (HVLP) spray gun, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology that is demonstrated to achieve transfer efficiency comparable to one of these spray gun technologies for a comparable operation, and for which written approval has been obtained from the Division of Air Quality.
- vi. The Permittee must maintain documentation of the HVLP or other high transfer efficiency spray paint delivery methods, as detailed in 40 CFR 63.11519(c)(7).
- vii. The Permittee must clean all paint spray guns with either non-HAP gun cleaning solvents, or in such a manner that an atomized mist of spray of gun cleaning solvent and paint residue is not created outside of a container that collects the used gun cleaning solvent.
- viii. The Permittee must ensure and certify that all new and existing personnel, including contract personnel, who spray apply paints at an affected spray painting source are trained in the proper application of paints and the proper setup and maintenance of spray equipment. The Permittee must meet the program content requirements for this training as listed in 40 CFR 63.11516(d)(6). The Permittee must maintain records of employee training certification for use of HVLP or other high transfer efficiency spray paint delivery methods as detailed in 40 CFR 63.11519(c)(8).
- ix. Training and certification will be valid for a period not to exceed 5 years after the date the training is completed. All personnel who apply paints at an affected spray painting source must receive refresher training that meets the requirements of 40 CFR 63.11516(d)(6) and be re-certified every 5 years.
- x. All personnel must be trained and certified no later than July 25, 2011, or 180 days after hiring, whichever is later. (***Change “July 25, 2011, or 180 days after hiring” to “180 days after startup, or 180 days after hiring” if the source is new.***) Worker training that was completed within 5 years prior to the date training is required, and that meets the requirements specified in 40 CFR 63.11516(d)(6), satisfies this requirement and is valid for a period not to exceed 5 years after the date the training is completed.

b. Notifications and Reporting:

- i. Initial Notification - The Permittee must submit the Initial Notification no later than July 25, 2011. (***Change “July 25, 2011” to “no later***

than 120 days after initial startup” if the source is new.) The Initial Notification must contain the information described in 40 CFR 63.11519(a)(1).

- ii. Notification of Compliance Status – The Permittee must submit a notification of compliance status no later than November 22, 2011. *(Change “November 22, 2011” to “no later than 120 days after initial startup” if the source is new.)* The notification of compliance status must contain the information described in 40 CFR 63.11519(a)(2).
 - iii. Annual certification and compliance reports - The Permittee must prepare and submit annual certification and compliance reports for each affected source according to the requirements of 40 CFR 63.11519(b)(2) through (b)(7).
- c. Recordkeeping - The Permittee must keep the following records as specified in 40 CFR 63.11519(c).
- i. *General compliance and applicability records.*
 - A. Each notification and report submitted to comply with this Rule, and the documentation supporting each notification and report.
 - B. Applicability determinations as in 40 CFR 63.11514(b)(4), “Am I subject to this subpart,” listing equipment included in its affected source, as well as any changes to that and on what date they occurred, must be maintained for 5 years and be made available for inspector review at any time.
 - ii. *Spray paint booth filter records.* Maintain a record of the filter efficiency demonstrations and spray paint booth filter maintenance activities, performed in accordance with paragraphs a.ii and iii of this Condition.
 - iii. *Waterspray booth or water curtain efficiency tests.* Maintain a record of the water curtain efficiency demonstrations performed in accordance with 40 CFR 63.11516(d)(1)(ii).
 - iv. *HVLP or other high transfer efficiency spray delivery system documentation records.* Maintain documentation of HVLP or other high transfer efficiency spray paint delivery systems, in compliance with paragraph a.vi of this Condition. This documentation must include the manufacturer's specifications for the equipment and any manufacturer's operation instructions. If you have obtained written approval for an alternative spray application system in accordance

with 40 CFR 63.11516(d)(2), you must maintain a record of that approval along with documentation of the demonstration of equivalency.

- v. *HVLP or other high transfer efficiency spray delivery system employee training documentation records.* Maintain certification that each worker performing spray painting operations has completed the training specified in specified in paragraph a.viii of this Condition with the date the initial training and the most recent refresher training was completed.
- vi. *Manufacturer's instructions.* If you comply with this Rule by operating any equipment according to manufacturer's instruction, you must keep these instructions readily available for inspector review.
- vii. Records must be maintained according to the following requirements:
 - A. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1), "General Provisions." Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
 - B. As specified in §63.10(b)(1), "General Provisions," you must keep each record for 5 years following the date of each occurrence, measurement, corrective action, report, or record.
 - C. You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, corrective action, report, or record according to 40 CFR 63.10(b)(1), "General Provisions." You may keep the records off-site for the remaining 3 years.