

PROHIBITED EMISSIONS

040.029 **ABRASIVE BLASTING** (Revised from 040.030; Adopted 5/22/02)

SECTION A - GENERAL

1. **PURPOSE:** To limit particulate material emissions into the ambient air from abrasive blasting operations.
2. **APPLICABILITY:** The provisions of this Rule shall apply to any abrasive blasting operation.

SECTION B - DEFINITIONS: For the purpose of this regulation, the following definitions shall apply.

1. **Abrasive.** Any material used in an abrasive blasting operation including but not limited to sand, slag, steel shot, garnet or walnut shells.
2. **Abrasive Blasting.** The cleaning or preparing of a surface by forcibly propelling a stream of abrasive material against the surface.
3. **Abrasive Blasting Equipment.** Any equipment used in abrasive blasting operations.
4. **Brushoff Blasting.** A method of cleanup performed in order to achieve surface uniformity or impurity removal after wet blasting, hydroblasting, or vacuum blasting operations.
5. **Confined Blasting.** Any abrasive blasting conducted in an enclosure which significantly restricts air contaminants from being emitted to the ambient atmosphere, including but not limited to shrouding, tanks, drydock, buildings, structures.
6. **Facility.** Any property site at which one or more abrasive blasting operations, either confined or unconfined, are carried out or maintained as part of an identifiable business.
7. **Hydroblasting.** Any abrasive blasting using high pressure liquid as the propelling force.
8. **Multiple Nozzle.** More than one nozzle being used to abrasive blast the same surface in such close proximity that their separate plumes are indistinguishable.
9. **Owner and/or Operator.** Any person who owns, leases, operates, controls, or supervises an abrasive blasting operation subject to the requirements of this Rule.
10. **Permanent Abrasive Blasting Operation or Equipment.** Any abrasive blasting operation conducted, or abrasive blasting equipment located, in a building which is used, in whole or in part, for abrasive blasting operations.
11. **Sandblasting.** Abrasive blasting.
12. **Source.** The impact surface from any single abrasive blasting nozzle.
13. **Steel or Iron Shot/Grit.** Abrasives which meet either the Society of Automotive Engineers recommended practices J827 and J444 or Steel Founders' Society of American

Standards 21-68 or 20T-66, as those practices and standards existed on February 24, 1984.

14. Unconfined Blasting. Any abrasive blasting which does not conform with Sections B.5 or B.10 of this Rule.
15. Vacuum Blasting. Any abrasive blasting in which the spent abrasive and surface material is immediately collected by a vacuum device.
16. Wet Abrasive Blasting. Any abrasive blasting using compressed air as the propelling force, which in the judgment of the Control Officer uses an amount of water adequate to minimize the plume.

SECTION C - STANDARDS

1. VISIBLE EMISSIONS PROHIBITION: The owner and/or operator of any abrasive blasting activity or operation shall not allow visible emissions greater than 40 percent opacity.
2. CONTROL MEASURES: Abrasive blasting operations shall utilize at least one of the following control methods:
 - a. Confined blasting.
 - b. The use of water injection in the abrasive stream in amounts sufficient to control the plume to the Control Officer's satisfaction.
 - c. The use of only California Air Resources Board certified abrasives (less than 1% passing a US #70 sieve) for blasting.
3. Unless the object being treated with abrasives is immovable, the object shall be positioned at least 24 inches above the ground to prevent re-entrainment of dust.

SECTION D – ADMINISTRATIVE REQUIREMENTS

As adopted, no Administrative Requirements are indicated.

SECTION E – COMPLIANCE AND RECORDS

1. COMPLIANCE DETERMINATION: To determine compliance with this Rule, the following test methods shall be conducted.
 - a. Opacity shall be determined by observations of visible emissions conducted in accordance with U.S. Environmental Protection Agency Reference Method 9.
2. RECORDKEEPING: Any person who conducts abrasive blasting activities or operations shall maintain daily records documenting, at a minimum, the following:
 - a. Date of abrasive blasting activity;
 - b. Description of object being blasted;

- c. Control measure(s) used; and
- d. Amount and type of abrasives used.

Records shall be made available to the Control Officer immediately upon request.

- 3. RECORD RETENTION: Records required to be maintained in **Section E.2** of this Rule shall be retained for at least one (1) year.