

State of California

AIR RESOURCES BOARD

August 15, 1974

Resolution 74-44

WHEREAS, Section 39079.6 of the Health and Safety Code directed the Chairman of the State Air Resources Board to convene a committee of 11 members to recommend to the Board for adoption, not later than January 1, 1975, air pollution standards for sandblasting operations;

WHEREAS, the committee has been convened and has recommended air pollution standards for sandblasting operations to the Board for adoption;

WHEREAS, Section 39079.6 of the Health and Safety Code requires the Board to adopt standards based upon the recommendation of the committee; and

WHEREAS, a public hearing and other proceedings have been held in accordance with the provisions of the Administrative Procedure Act, (Government Code, Title 2, Division 3, Part 1, Chapter 4.5);

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board hereby certifies, confirms, and adopts air pollution standards for abrasive blasting operations as Subchapter 6, Chapter 1, Part III, Title 17, California Administrative Code, to read as set forth in the attached Exhibit A.

Attachment

EXHIBIT "A"

ADDITIONS TO TITLE 17,
CALIFORNIA ADMINISTRATIVE CODE

As Recommended by
the Committee on Air Pollution Standards for Sandblasting Operations

SUBCHAPTER 6 Abrasive Blasting

Article 1. General Provisions

92000. Definitions. For the purposes of this subchapter:

- (a) "Abrasives" means any material used in abrasive blasting operations including but not limited to sand, slag, steel shot, garnet or walnut shells.
- (b) "Abrasive blasting" means the operation of cleaning or preparing a surface by forcibly propelling a stream of abrasive material against the surface.
- (c) "Abrasive blasting equipment" means any equipment utilized in abrasive blasting operations.
- (d) "Air contaminant" includes smoke, charred paper, dust, soot, grime, carbon, fumes, gases, odors, particulate matter, acids or any combination thereof.
- (e) "Confined blasting" means 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, drydocks, buildings, structures.
- (f) "Hydroblasting" means any abrasive blasting using high pressure liquid as the propelling force.

- (g) "Multiple nozzles" means more than one nozzle being used to abrasive blast the same surface in such close proximity that their separate plumes are indistinguishable.
- (h) "Permanent abrasive blasting operations or equipment" means abrasive blasting operations conducted, or abrasive blasting equipment located, in a building which is used, in whole or in part, for abrasive blasting operations.
- (i) "Person" means any individual, firm, association, organization, partnership, business trust, corporation, company, contractor, supplier, installer, user or owner, or any state or local governmental agency or public district or any officer or employee thereof. "Person" also means the United States Government or its agencies to the extent authorized by federal law.
- (j) "Source" means the impact surface from any single abrasive blasting nozzle.
- (k) "Unconfined blasting" means any abrasive blasting which does not conform with definitions (e) or (h) of this article.
- (l) "Vacuum blasting" means any abrasive blasting in which the spent abrasive and surface material is immediately collected by a vacuum device.
- (m) "Wet abrasive blasting" means any abrasive blasting using compressed air as the propelling force, which in the judgement of the air pollution control officer uses an amount of water adequate to minimize the plume.

92100. Scope and Policy

- (a) These standards in this subchapter shall not supersede any rule or regulation of any air pollution control district governing permanent abrasive blasting operations or equipment.
- (b) These standards in this subchapter shall be effective statewide and no rule or regulation of any air pollution control district that is applicable to abrasive blasting operations shall be stricter or less strict than these standards.
- (c) These standards in this subchapter are not intended to prohibit air pollution control districts from enforcing their permit regulations as they apply to abrasive blasting equipment.
- (d) The Committee appointed pursuant to Health and Safety Code Section 39079.6 shall prepare a preliminary report within 90 days and final report within 180 days after the effective date of this regulation which recommend regulations to the Board concerning the cleanliness and hardness of abrasives utilized in abrasive blasting operations.
- (e) The Committee shall meet at least semi-annually upon the call of the chairman of the Committee.

Article 2. Prohibitions

92200. (a) No person shall, if he complies with an applicable performance standard in Article 5, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

- (1) As dark or darker in shade as that designated as No. 2 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
- (2) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subdivision (1).

(b) No person shall, if he is not complying with an applicable performance standard in Article 5, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any ^{one} hour which is:

- (1) As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
- (2) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subdivision (1).

92210. Nuisance Prohibition

Compliance with all rules and regulations in this subchapter does not exempt any person from complying with Section 24243

and 39077 of the Health and Safety Code, nor from complying with any State statutory or common law nuisance prohibition.

Article 3. Enforcement

92300. Any person found in violation of Article 2 or Article 5 of this Subchapter shall be subject to the provisions of Chapter 6, commencing with Section 39260, Part 1, Division 26 of the Health and Safety Code.

Article 4. Visible Emission Evaluation Techniques

92400. Visible emission evaluation of abrasive blasting operations shall be conducted in accordance with the following provisions:

- (a) Emissions shall be read in opacities and recorded in percentages.
- (b) The light source should be at the rear of observer during daylight hours.
- (c) The light source should be behind the emission during hours of darkness.
- (d) Observer position should be at approximately right angles to wind direction, and at a distance no less than twice the height of the source but not more than one quarter of a mile from the base of the source.
- (e) Emissions from unconfined blasting shall be read at the densest point of the emission after a major portion of the spent abrasive has fallen out, at a point not less than five feet nor more than twenty-five feet from the source.

- (f) Where the presence of uncombined water is the only reason for a failure to meet the limitations of Subsection 92200, that Subsection shall not apply. The burden of proof which establishes that Subsection 92200 should not apply shall be upon the person seeking to come within its provisions.
- (g) Emissions from unconfined blasting employing multiple nozzles shall be judged as a single source unless it can be demonstrated by the owner or operator that each nozzle, evaluated separately, meets the emission and performance standards provided for in this subchapter.
- (h) Emissions from confined blasting shall be read at the densest point after the air contaminant leaves the enclosure.

Article 5. Performance Standards

92500. Any abrasive blasting operation except as provided for in Section 92510 shall comply with at least one of the following performance standards:

- (a) Confined blasting shall be used;
- (b) Wet abrasive blasting shall be used;
- (c) Hydroblasting shall be used; or
- (d) Unconfined blasting shall use abrasives as defined in Section 92520. However, until such time as Section 92520 contains substantive provisions, any abrasive may be used.

92510. Pavement Marking.

Surface preparation for raised traffic delineating markers and pavement marking removal using abrasive blasting shall comply with at least one of the following performance standards:

- (a) Wet abrasive blasting, hydroblasting, or vacuum blasting shall be used;
- (b) Unconfined dry abrasive blasting for removal or surface preparation for immediate application of pavement markings of less than 1,000 square feet or for surface preparation for raised traffic delineating markers shall use abrasives as defined in Section 92520. However, until such time as Section 92520 contains substantive provisions, any abrasive may be used.

92520. Abrasives.

Substantive provisions for this section shall be adopted by the Air Resources Board, after the Committee acts pursuant to Section 92100 (d) of this Subchapter.