

# PUGET SOUND CLEAN AIR AGENCY

## Additional Notice of Construction Application Requirements for

### ABRASIVE BLASTING

#### General

Description of Equipment and its Purpose [*Specify the type of blasting equipment (hydroblasting, wet blasting, vacuum blasting, commercial blasting cabinet, blasting room, outdoor) and the reason for using it (manufacture of -, maintenance or repair of -)*]

Identify which of the following categories the project fits into:

1. New Construction (*New construction also includes existing, unpermitted equipment or processes*)
2. Reconstruction (*Reconstruction means the replacement of components of an existing facility to such an extent that the fixed capital cost of the new components exceeds 50% of the fixed capital cost that would be required to construct a comparable entirely new facility*)
3. Modification (*Modification means any physical change in, or change in the method of operation of, a source, except an increase in the Hours of Operation or production rates (not otherwise prohibited) or the use of an alternative fuel or raw material that the source is approved to use under an Order of Approval or operating permit, that increases the amount of any air contaminant emitted or that results in the emission of any air contaminant not previously emitted*)
4. Amendment to Existing Order of Approval Permit Conditions

Estimated Hours of Operation (hr/day, day/wk, wk/yr) [*Estimate the hours of operation for the new abrasive blasting operation - not necessarily the entire facility*]

Estimated Installation Date [*Estimate the date when the abrasive blasting equipment will be put into service*]

#### Abrasive Properties

Type of Abrasive [*Specify steel or iron shot/grit, nutshells, metal slag, garnet, silica, water, or other (be specific). For a list of approved abrasives, see [www.arb.ca.gov/cd/abrlist.doc](http://www.arb.ca.gov/cd/abrlist.doc)*]

Estimated Annual Abrasive Usage (ton/yr) [*Estimate the amount of abrasive to be used or purchased per year*]

**Design of Blasting Cabinets** [*Required only for package units pre-manufactured with dust control equipment. Otherwise, complete the permit form for baghouses. Most design information is available from the manufacturer or vendor. Submittal of a brochure, scale drawing or process and instrumentation diagram will facilitate the review of the permit application*]

Make & Model [*Specify the manufacturer and model of the blasting cabinet - not the serial number*]

Filter Fabric Material [*Common bag materials include modacrylic (e.g., Dynel), cotton, wool, polypropylene, nylon polyamide (e.g., Nylon 6 & 66), acrylic (e.g., Orlon), polyester (e.g., Dacron, Creslan), nylon aromatic (e.g., Nomex), fluorocarbon (e.g., Teflon, TFE), and fiberglass. Specify woven or felted, and any type of treatments (e.g., heat setting) and finishes applied to the fabric (e.g., Teflon, Gore-tex, silicone)*]

Filter Cleaning Method [*For example, mechanical shake, reverse air, or pulse-jet*]

Air to Cloth Ratio (acfm/ft<sup>2</sup>) [*This is the airflow (acfm) divided by the total surface area of fabric exposed to dust. The surface area of an individual bag is equal to 3.14159 x bag diameter x bag length. The surface area of a pleated cartridge must be obtained from the manufacturer or distributor. The total surface area is just the individual bag or cartridge surface area times the number of bags or cartridges.*]

Emissions Estimate (lb/hr, lb/yr) [*Estimate the emissions of each pollutant and include your calculations. Uncontrolled emissions should be estimated using emission factors from <http://www.epa.gov/ttn/chief/ap42/index.html>. Controlled emissions should equal (0.01)(uncontrolled emissions or amount collected)*]

### **Operation and Maintenance**

Describe Preventive Maintenance for Blasting Cabinets [*Specify the periodic maintenance recommended by the manufacturer and its frequency. (In general, cabinets are equipped with a gauge to measure the pressure drop across the filters and the reading is used to determine when to clean the filters.) Also specify other cleaning and maintenance activities and their frequency.*]

Methods Used to Confine Dust from Outdoor Blasting Operations [*Specify the type of enclosure to be used*]