

# PUGET SOUND CLEAN AIR AGENCY

## Additional Notice of Construction Application Requirements for

### **VAPOR DEGREASERS AND COLD SOLVENT CLEANING TANKS**

#### **General**

Description of Equipment and its Purpose [*Specify the type of equipment (vapor degreaser or cold solvent cleaning tank) and its intended purpose (cleaning what types of items in preparation for what).*]

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 degreaser - not necessarily the entire facility.*]

Estimated Installation Date [*Estimate the date when the new degreaser will be put into service.*]

#### **Solvent Properties**

Type of Solvent [*Specify the chemical composition of the solvent(s).*]

Maximum Temperature of Solvent (°F) [*Specify the maximum temperature of the solvent(s). For cold solvent cleaners, this is the room temperature.*]

Vapor Pressure at its Maximum Temperature (psia) [*Specify the true vapor pressure of the solvent(s) at the maximum storage temperature.*]

Estimated Annual Solvent Use (gal/yr) [*Estimate the net solvent consumption (amount consumed minus the amount shipped off-site as dangerous waste). If the solvent content of the still bottoms is unknown, assume 50%.*]

**Design of Cold Solvent Cleaners** *[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 degreaser - not the serial number]*

Freeboard Height (inches) *[Specify the distance from the liquid surface to the top of the tank.]*

Length and Width (inches) *[Specify the length and width of the opening in inches.]*

Type of Cover *[Specify sliding, biparting, rolltop, or other (be specific).]*

Depth of Water Layer (inches) *[If used, specify the minimum depth. (A water layer is sometimes used to prevent evaporation where the solvent is denser and doesn't mix with water.) Otherwise, specify 'none']*

Type of Spray Used *[Specify 'none', spray atomized, or shower]*

Air Agitation (yes/no) *[Specify if air agitation (sparging) is used.]*

**Design of Vapor Degreasers** *[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 degreaser - not the serial number]*

Freeboard Height (inches) *[Specify the freeboard height in inches. For open top degreasers this is the distance from the vapor/air interface to the top of the tank. For conveyORIZED degreasers, this is the distance from the vapor/air interface to the bottom of the lowest opening in the tank]*

Length and Width of Opening (inches) *[Specify the length and width of the opening in inches. For conveyORIZED degreasers, specify the dimensions of both the entrance and exit openings]*

Type of Cover *[Specify sliding, biparting, rolltop, or other (be specific).]*

Refrigerated Freeboard Chiller Temperature (°F) *[Specify the temperature of the refrigerated freeboard chiller - not the cooling coils]*

Vapor Level Control Thermostat (yes/no) *[Specify if equipped with a vapor level control thermostat that turns off the sump heater if the thermostat senses vapors rising above the air/vapor interface]*

Spray Safety Switch (yes/no) *[Specify if equipped with a spray safety switch that turns off the sprayer pump (and the conveyor) if the vapor level drops below a specified level.]*

Maximum Air Velocity Across the Lip of Open Top Degreaser (ft/min) *[Specify the maximum air velocity caused by lip exhaust fan across the opening of the degreaser. Not required for conveyORIZED degreasers]*

Rotating Baskets and/or Drying Tunnel (yes/no) *[Specify if equipped with rotating baskets and/or a drying tunnel. Not required for open top degreasers.]*

Maximum Speed of any Powered Hoist or Conveyor (ft/min) *[Specify the speed limit for and powered hoists or conveyors used.]*

Alternatives Analysis *[An alternatives analysis that evaluates the effectiveness of other methods of achieving the required level of cleanliness, including means for preventing the items from becoming soiled in the first place, and alternative means to clean the items (e.g., cold solvents, detergents, or physical means).]*

**Stack** *[Required only if vented to the atmosphere. If control equipment is used, complete the appropriate permit form for thermal oxidizer, adsorber, or condenser.]*

Stack Height (ft) *[Specify the height of the top of the stack above ground level - not above the building or sea level]*

Stack Diameter or Rectangular Cross-Sectional Dimensions (inches) *[Specify the internal dimensions - not the external dimensions]*

Exhaust Flowrate (acfm) *[Specify the airflow in actual cubic feet per minute]*

Exhaust Temperature (°F) *[Specify the temperature of the exhaust leaving the stack]*

Distance to Nearest Property Line (ft) *[Specify the distance from the base of the stack to the nearest property line]*

Height, Length and Width of Buildings (ft) *[Specify the approximate dimensions of any buildings that are >40% of the stack height and are located within 5 building heights from the stack]*

### **Operation and Maintenance**

Describe Preventive Maintenance *[Specify the periodic maintenance recommended by the manufacturer and its frequency.]*