

PUGET SOUND CLEAN AIR AGENCY

Additional Notice of Construction Application Requirements for

EVAPORATORS

General

Description of Equipment and its Purpose [*Specify the type of evaporator (heated but nonboiling, boiling, spraying) and its intended purpose (describe processes that create the wastewater).*]

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 evaporator - not necessarily the entire facility.*]

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

Wastewater Properties

Concentration of Each Metal (ppm) or mg/l) and Test Method [*Specify the approximate concentration of each metal in the wastewater (dissolved plus suspended) as determined by an Ecology-accredited lab (<http://www.ecy.wa.gov/programs/eap/labs/srchmain.htm>) using EPA Method 200.7 or 6010.*]

Concentration of Each Volatile Organic Compound (ppm) and Test Method [*Specify the approximate concentration of each VOC in the wastewater as determined by an Ecology-accredited lab (<http://www.ecy.wa.gov/programs/eap/labs/srchmain.htm>) using EPA Method 624 or 8260.*]

Material Safety Data Sheets of Each Commercial Product [*Submit a MSDS for each commercial product (detergents, plating solutions, metal working fluids, etc.) in the wastewater*]

Estimated Annual Usage of Each Commercial Product (lb/yr or gal/yr) *[Estimate the annual usage of each commercial product (detergents, plating solutions, metal working fluids, etc.) in the wastewater]*

Method(s) Used to Minimize the Generation of Wastewater

Method(s) Used to Purify Wastewater Prior to Evaporation

Estimated Volume of Wastewater to be Evaporated (gal/day, gal/yr) *[Estimate the amount of wastewater to be evaporated per day and per year.]*

Estimated Volume of Concentrated Wastewater and Sludge to be Disposed of Off-Site (gal/yr) *[Estimate the amount of wastewater and sludge remaining after evaporation (e.g., after high temperature shutoff) that needs to be disposed of.]*

Cost of Alternatives to the Use of an Evaporator *[Specify the cost of permits for sewer discharge and the cost of pick-up by a hazardous waste hauler.]*

Design *[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 evaporator - not the serial number.]*

Batch or Continuous *[Specify how the evaporator is filled and how often]*

Maximum Operating Temperature (°F) *[Specify the maximum operating temperature of the evaporator]*

Automatic Shutoff for High Temperature (yes/no) *[Specify if the evaporator is equipped with an automatic high temperature shutoff. If the evaporator boils the wastewater, one is required and the wastewater remaining after a high temperature shutoff must be drained out and disposed of]*

Automatic Shutoff for Low Water Level (yes/no) *[Specify if the evaporator is equipped with an automatic low water level shutoff to prevent baking of the remaining sludge. If the evaporator heats the wastewater, one is required]*

Demister (yes/no) *[Specify if the evaporator is equipped with a demister (or mist eliminator) designed to impact and coalesce any mists. If the evaporator boils or sprays the wastewater and the wastewater contains significant amounts of toxic metals, one is required.]*

Stack *[For vented units without add-on control equipment. If equipped with a demister from another manufacturer, use appropriate permit forms for demisters]*

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 Operating Procedures *[Specify what criteria is used to drain out concentrated wastewater from the evaporator and how it is disposed of]*