

Serving the Cities of Kent, Covington and King County Fire District 37

Flammable/Combustible Liquid Tank Installations— Aboveground

Please print in Black ink only

Scope

This checklist pertains to the design and construction of facilities and equipment where flammable and combustible liquids are stored in stationary aboveground tanks or vessels, including fueling motor vehicles.

Minimum Requirements for Construction Drawings

Plans which do not contain the minimum information required will not be accepted for plan check. Plans shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show that it will conform to the provisions of the adopted International Codes and ordinances.

- Five (5) copies of plans (24" x 36", or 30" x 42") must be submitted for review.
- Copies shall **all** be the same size.
- Working Drawings -scale to 1/8" = 1'.
- Shall be drawn in indelible ink.
- Sheets that are cut and pasted, taped, or that have been altered by any means (pen, pencil, marking pen, etc.) **will not** be accepted for plan check.
- Site Plans – scale to 1" = 20' or 1" = 40'
- Washington State law requires that any registered professional who prepares or supervises the preparation of drawings and construction documents stamp and sign such documents.

PROJECT NAME

General

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Owner's name, address, telephone and fax numbers. |
| <input type="checkbox"/> | <input type="checkbox"/> | Occupant's name, address, telephone number, if different from owner. |
| <input type="checkbox"/> | <input type="checkbox"/> | Contractor's name, address, fax number, telephone number and Washington State Contractor's license number. |

Documentation—One Set

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Manufacturer's product literature or engineering calculations for site-built tanks, including seismic design of tanks, piping, valves, fittings, flexible joints and related components. |
| <input type="checkbox"/> | <input type="checkbox"/> | Engineering verification of component compatibility with stored products. |
| <input type="checkbox"/> | <input type="checkbox"/> | Individual and aggregate tank or vessel capacities in gallons. |
| <input type="checkbox"/> | <input type="checkbox"/> | Sample warning sign for tanks or vessels. |
| <input type="checkbox"/> | <input type="checkbox"/> | Make, model, type and rating of spill monitoring or leak-detection devices. |
| <input type="checkbox"/> | <input type="checkbox"/> | Design criteria for pressure limitation on tanks or valves. |
| <input type="checkbox"/> | <input type="checkbox"/> | Fabricator's welding certificates. |

- Environmental agency and zoning authority to install, if applicable.
- Verified written consent for shared reduction of property lines.

Motor Vehicle Fuel Dispensing Stations—Aboveground Tanks: Liquid Fuels

Yes No

- Description of method used to limit fuel delivery at unattended fueling operations.
- Make, model, type and rating of vapor balance, recovery or processing equipment.

Working Drawings

Yes No

- Scaled topographical site plan showing the location of property lines, buildings and building openings, roads and parking lots, fire hydrant and water supply systems, above ground and underground tanks, security fences, piping, valves, fittings and related equipment.
- Location of equipment, controls and piping within diked areas, if applicable.
- Method to achieve vehicle impact protection for piping, valves or fittings.
- Method to achieve structural support for above ground tanks and piping.
- Method to achieve secondary containment and drainage control, including dikes, diversion curbs and grading.
- Method to prevent rainwater accumulations or provide drainage from diked areas.
- Method to achieve fire protection for steel supports, if applicable.
- Design, construction and location of stairs, platforms and walkways.
- The design, specifications and locations for product transfer piping (fill and withdrawal), valves and fittings.
- The location and classification of electrical and heating equipment and method to achieve grounding and bonding.

- The location of emergency shutdown devices for product transfer.
- The location, design and specifications of vent pipes, flame arresters and equipment.
- The location and type of flexible joints, shear joints and emergency impact valves.
- Method to protect low melting point materials from fire exposure.
- Detailed design of vent pipe manifolds when used for vapor recovery, vapor conservation or air pollution control.
- Method to provide over pressurization fill protection for low pressure tanks and vessels.
- Detailed design of method to achieve emergency relief venting, including calculations of pressure-relieving devices, if applicable.
- Method to protect piping from physical damage, corrosion or external stresses, including fire.
- The location and rating of fire protection equipment, including portable fire extinguishers and foam systems.
- For indoor tanks, details of design for vapor recovery and overflow protection.

Motor Vehicle Fuel Dispensing Stations—Aboveground Tanks: Liquid Fuels

Yes No

- Method to achieve fire and bullet resistance for above ground storage tanks (special enclosure or listed tank assembly).
- Method to achieve overfill prevention and spill containment.
- The design and specifications for fuel transfer piping, valves and fittings.
- The location of emergency fuel shutdown devices.
- The location and design of dispensers and vapor balance, recovery of processing equipment.

The Remainder of this checklist applies only to Motor Vehicle Fuel Dispensing Stations—Above Ground Tanks: Liquid Fuels

For Indoor Dispensing

Yes No

- Method to interlock mechanical ventilation and fuel dispensers.
- Make, model and rating of exhaust systems for indoor ventilation.
- Method to provide fire resistance for indoor fuel and vent pipes.

Marine Service Stations

Yes No

- Scaled topographic site plans including the information listed above, plus design and construction details of piers, wharves, docks and floats where dispensing occurs.
- Location and type of product piping and control valves.
- Location and type of shoreside control valves and quick-throw valves at each flexible connection.
- Location and type of all flexible connections between shore and floats.
- Method to protect piping from physical damage, corrosion or external stresses.

PLEASE READ THE INFORMATION BELOW AND SIGN BEFORE SUBMITTING YOUR APPLICATION

Your application shall be deemed complete only if this checklist is completed and submitted along with the submittal package. Submittals not accompanied by a checklist will not be accepted. Accuracy of the submittal package, including this checklist, is the responsibility of the applicant. Failure to submit an accurate submittal package will be considered an incomplete application by the Plan Reviewer. An incomplete submittal will result in a HOLD. A Re-submittal (new submittal package) will be required and always results in a delay.

I have checked the applicable boxes and have included those requirements in my submittal.

Print Name

Signature