



RIO VISTA FIRE DEPARTMENT

Standard 3.11

Aboveground Storage Tank Installation/Removal

This Standard outlines the general requirements for the installation of Aboveground Storage Tanks (AST). Information contained herein applies to typical instances and may not address all circumstances. The installation and removal of Aboveground Storage Tanks must be done by permit.

Application and fee amounts are found at: <https://www.riovistacity.com/fire-prevention/>

REQUIRED INSPECTIONS

Each system shall be subject to field hydrostatic or pneumatic integrity testing on site before being placed into use. All monitoring systems and controls including secondary containment monitoring, spill, overfill, automatic shutoff, etc shall be tested and witnessed by a fire inspector.

Inspections shall be scheduled a minimum of 72 hours in advance by calling the Rio Vista Fire Department at: 707-374-2233.

PERMIT INFORMATION

Aboveground Storage Tanks shall be designed and installed in accordance with State and Local requirements. Where such regulations conflict, the more stringent requirements shall apply.

An installation permit and payment of appropriate fees shall be required for the installation or modification of an Aboveground Storage Tank. Working plans shall be submitted for approval to the Rio Vista Fire Department before any preparation or placement of an Aboveground Tank occurs.

Prior to the submission of plans for the installation of an Aboveground Storage Tank, verification must be made to assure the site may have an Aboveground Storage Tank placed upon it. This may include additional approvals by the Building, Zoning and Planning Departments.

A completed Permit and Plan Review Application Form with fees shall be submitted along with not less than three (3) sets of plans and calculations as required. Any deviation from plans as submitted during the installation requires Fire Department approval. Plans shall include the information specified below and failure to provide all of

the required information may result in an approval delay. Items requiring correction will be returned with a Plan Review Correction Form. Allow five (5) working days for review of submitted plans. Working plans shall be drawn to an indicated scale, on sheets of uniform size, and shall include but not be limited to the following data:

- Name of owner and occupant
- Location, including street address
- North arrow
- Designer and Contractor information
- Site Plan showing location of tank(s), property lines, principal structures, exterior doors, operable windows, air exhaust, intake on structures
- Method of storage and dispensing,
- Quantities and types of liquids,
- Tank venting and vapor recovery
- Mechanical permit (or verification of application)
- Electrical Permit (or verification of application)
- Written scope of work, intended use
- Timeline of installation
- Site safety plan
- Specification information on tank
- All manufacturers specifications and cut sheets for tank and piping, valves, fittings, hoses, nozzles
- Slab information, seismic stabilization (verification of Building Dept approval)

GENERAL REQUIREMENTS

1. All Aboveground Storage Tanks must be listed for the purpose for which they are intended.
2. Underground Storage Tanks cannot be used as Aboveground Tanks.

3. The design, construction and installation of Aboveground Storage Tanks shall be done in accordance with the manufactures instructions and the current edition of an approved industry standard.
4. Foundations and supports must meet minimum bearing pressure of the soil for the site.
5. Tanks shall be seismically secured.
6. All Aboveground Tanks shall be UL listed and be constructed according to the applicable standards for the type of tank and contents proposed.
7. Aboveground Storage Tanks and all related equipment shall be secured from physical damage with the use of guard posts or fencing as necessary.
8. An approved method for monitoring the tank contents must be provided.
9. Lockable valves to prevent accidental release are required.
10. Aboveground Storage Tanks may not be dispensed from, or fed by gravity.
11. All piping must be protected from damage including but not limited to: impact, settlement, corrosion, vibration.
12. Suction systems must be equipped with an anti-siphon valve and/or and internal check valve as determined by individual application.
13. Suction pumps shall have pressure relief valves when connected to an Aboveground Storage Tank.
14. All pumps and dispensers shall use flexible connectors to connect pipe except when pump is installed on top of tank.
15. Spill and overfill protection is required for Aboveground Storage Tanks.
16. All piping must be labeled.
17. NFPA 704 diamond placards must be provided on site.
18. "No Smoking" signs must be posted at tank location.
19. The area around an Aboveground Storage Tanks must be free of vegetation and combustible materials.
20. Prior to change of contents, an Aboveground Storage Tanks must be tested. A separate permit is required for this process.

Removal of Aboveground Storage Tanks from use must be done under permit from the Rio Vista Fire Department.

Exemptions

Waste oil tanks for the storage of hand fed waste oil not exceeding 60 gallons shall be exempt. No pumping or remote fill may be installed on tank.

References:

2016 California Fire Code (CFC)
California Building Code (CBC)
NFPA 30
UL2085
CAL EPA