

<p>July 1, 2010</p>	<p>SANTA ROSA FIRE DEPARTMENT FIRE PREVENTION BUREAU STANDARD</p>
	<p>ABOVEGROUND STORAGE TANK MODIFICATION</p>

PURPOSE

This standard outlines the general requirements for the modification of Aboveground Storage Tanks. Information contained herein applies to typical instances and may not address all circumstances.

CODE REFERENCES

California Fire Code
California Building Code
California State Aboveground Tank Regulations
NFPA 30,37,54,55,58,70, 110
Mechanical Code
UL 142/2085
CAL/ EPA

Permit(s) Required

The modification of Aboveground Storage Tanks must be done by permit. Application fee amounts are found at: <http://ci.santa-rosa.ca.us/doclib/Documents/IB%20018.pdf>

ATTACHMENTS

- 1) Plan Review Checklist – Aboveground Storage Tank Modification
- 2) Inspection Checklist – Aboveground Storage Tank Modification

REQUIRED INSPECTIONS

Each system shall be subject to tests appropriate to the modification made including but not limited to field hydrostatic or pneumatic integrity testing.

All monitoring systems and controls including secondary containment monitoring, spill, overflow, automatic shutoff, etc shall be re tested and witnessed by a fire inspector prior to final sign off of modification.

Inspections shall be scheduled a minimum of 48 hours in advance. Directions for scheduling are found at: <http://ci.santa-rosa.ca.us/news/Pages/AutomatedFireInspectionRequestSystem.aspx>

PERMIT INFORMATION

An installation permit and payment of appropriate fees shall be required for the modification of an Aboveground Storage Tank. Working plans shall be submitted for approval to the Santa Rosa Fire Department before any preparation, work or change of parts on an Aboveground Tank occurs.

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. A Santa Rosa Tax Certificate, current appropriate contractor's license, a proof of worker's compensation insurance, hazwopper certification for all persons working on the project is also required.

Fire Prevention Standard
AST Modification

Any deviation from plans as submitted during the modification requires Fire Department approval. Plans shall include the information specified below. Failure to provide all of the required information may result in the plans being rejected. Rejected plans will be returned with a Plan Review Correction Form. Allow ten (10) working days for review of submitted plans.

GENERAL REQUIREMENTS

Modification of an Aboveground Tank may include but not be limited to: Venting replacement or repair, piping replacement or repair, valve replacement or repair, repair or replacement of dispensing equipment. Modification may also include change of contents, reconstruction, tapping, tank cutting, vent pipe relocations, dispenser piping, tank repair or re-piping.

If the tank is in use at the time of the requested modification, the tank owner must advise in their permit application the following: Will the project result in the generation of hazardous waste? Where will the existing product be moved to and how will it be stored?

Tank modification plans should include a detailed scope of work identifying all proposed changes, including the description of approved materials required for construction.

All permits must be accompanied by engineered plans or drawings submitted for the proposed modification must be signed, sealed, and dated by a Professional Engineer registered in the state of California. UL certification must be provided which verifies the original UL listing has not been compromised.

Plans must have an appropriate scale reference and/or dimensioned in feet and show the facility, any buildings and tank location. They must indicate what is new and what is existing by a recognized identification method.

Show plan and elevation views of tanks, piping, pumps, fuel dispensers, secondary containment systems, monitoring well locations or other approved release detection systems proposed.

Indicate the manufacturer's name, make, model and type (manual or electronic) of release detection system installed.

Show storage tank/piping size, secondary containment details. Vapor recovery pipe configuration, size, and vent pipe size must be included.

Show buildings, opening relative to the tank when applicable.

If the tank will be taken out of service a Temporary Closure Permit shall be obtained from the Fire Department for tanks out of service for more than 90 days. Temporarily closed tanks must be safeguarded in accordance with the California Fire Code.