UNDERGROUND STORAGE TANK SYSTEM INSTALLATION/UPGRADE SUPPLEMENT

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction Authority Cited: California Fire Code (CFC); Chapter 6.7, Health and Safety Code (HSC); Title 23, Div. 3, Ch. 16 California Code of Regulations (CCR)

I. General Information

This document, accompanied by all required attachments, shall be completed and submitted along with the project plans and installation/upgrade permit application. It is intended to serve as a general overview of flammable and combustible liquid UST installation and upgrade requirements and is not all-inclusive. The Unidocs "Underground Storage Tank System Installation Guidelines" provide additional information on installation requirements.

II. Project Information Provide the following information:

Facility Name (Tank Site):		Bldg. No.:
Site Address:	City:	Zip:
Project Contact Name:	Phone No.: ()	ext.
Contractor Name (DBA):	Con	ntractor License No.:
Plan Check No.:	Date Plans Submitted:	

This information is intended to expedite the plan review and approval process. Where appropriate, enter, on the line to the right of each item, the <u>number of the page</u> within your submitted plans on which the item asked for is described. <u>Highlight the information in your plans</u>. If an item is not applicable to this project, mark "N/A" on the "Submittal Page No." line. Calculations, brochures and/or manufacturers' cut sheets for all system components, and other required information shall be submitted as attachments to the plans.

A. Tanks

Agency Use Only	Code Section		Submittal Page No.
	HSC § 25290.1(c)	Tanks are product tight and compatible with materials intended to be stored.	
	CCR § 2631(b)	Design and construction of primary containment is approved by an independent testing organization (e.g., UL).	
	CCR § 2635(a)(6)	Tank systems will be installed in accordance with manufacturers' written installation instructions.	
	CFC § 3404.2.11.2#1	Tanks are located with respect to existing foundations and supports such that the loads carried by the latter cannot be transmitted to the tank.	
	CFC § 3404.2.11.2#2	Tanks are located not less than 3 feet from the nearest wall of a basement, pit, cellar, or lot line.	
	CFC § 3404.2.11.2#3	Tanks are separated by at least 1 foot, measured shell-to-shell.	
	HSC §§ 25290.1(f) 25290.2(e) 25291(c) CCR §§ 2635(b) 2665	A spill container having minimum 5 gallon capacity and drain valve allowing drainage of collected spills to the primary tank is provided at each tank fill location.	

single-walled, and does not satisfy requirements for secondary containment.]

Agency Use Only

HSC § 25290.1(c)

Secondary containment is provided for tanks.

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	CFC § 3404.2.11.3	Tanks are set on a firm foundation and surrounded by a minimum 6 inches of noncorrosive inert material, such as clean sand or pea gravel.	
		A certification, stamped by a registered engineer, that flooding will not occur and that groundwater conditions do not warrant additional engineering to counteract tank buoyancy, is included with this application.	
		[Alternative: Attach buoyancy calculations, stamped by a registered engineer and based upon the assumption that each tank lies completely submerged.]	

F. Dispensers:

Agency Use Only	Code Section		Submitta Page No.
	CFC § 2206.7.3	Concrete islands at least 6 inches high are provided (or other approved method of vehicle impact protection).	
	CFC § 2203.1	Dispensers are sited with the following minimum distances: 1.) 10 feet to any lot line; 2.) 20 feet to any fixed source of ignition; 3.) 10 feet to buildings having combustible exterior wall surfaces or buildings having noncombustible exterior wall surfaces that are not 1-hour rated or buildings having combustible overhangs; 4) such that all portions of vehicles being fueled will be on the premises of the facility.	
	CFC § 2203.1#4	Dispenser hoses, when fully extended, reach no closer than 5 feet from any building opening.	
	CFC § 2206.7.5	Dispenser hoses are listed and approved, and are no more than 18 feet in length. When not in use, hoses will be reeled, racked, or otherwise protected from damage.	
	CFC § 2206.7.5.1	Each dispenser hose is provided with an approved emergency break-away connector designed to retain liquid on both sides of the breakaway point.	
	CFC § 2206.7.6	Each dispenser hose is provided with a listed automatic-closing-type nozzle valve.	
	CFC § 2204.3	If dispensing is unsupervised, the following are provided: ° A telephone that does not require a coin to operate (or other approved, clearly identified means to notify the Fire Department); ° Dispensing devices are programmed to limit uninterrupted fuel delivery to 25 gallons or limit delivery by use of a pre-programmed card.	

G. Emergency Shut-Off:

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	CFC § 2203.2	Switch(es) to shut off electrical power used in dispensing operations are distinctly labeled "EMERGENCY FUEL SHUTOFF."	
	CFC § 2203.2	Switch(es) are installed at approved location(s) no less than 20 feet and no more than 100 feet from any dispenser.	
	CFC § 2203.2	Switch or sign is visible from every dispensing location.	

H. Monitoring:

Agenc Use Only	Code Section		Submittal Page No.
	HSC §§ 25290.1(d) 25290.2(d) 25291(b) 25291(e)	All secondary containment systems (i.e., tank annular spaces, secondary piping, sumps, UDC) are continuously monitored by approved electronic leak detection systems that can detect the entry of hazardous substance and water.	
		[Note: Secondary containment for tank systems installed on or after 7/1/2004 must be equipped with continuous vacuum/pressure/hydrostatic monitoring equipment.]	

Agency Use Only	Code Section		Submittal Page No.
	CCR §§ 2632 2636	Electronic monitoring sensors are located at the following points in secondarily-contained tank systems installed prior to 7/1/2004: At the bottom of the interstitial space of each secondarily-contained tank, positioned as near as possible to the bottom of the tank; In collection sumps at end of each secondarily-contained pipe run, positioned as near as possible to the bottom of the collection sump; In UDC pans or sumps other than those provided with mechanical leak detection equipment that shuts off the flow of product to the dispenser when a leak is detected. Along secondarily-contained pipe runs, portions of which do not slope towards monitored locations, positioned at the low point of each depressed or low-lying area.	
	HSC §§ 25290.1(h) 25290.2(g) 25291(f) 25292(e) CCR § 2636(f) (2)	Automatic line leak detectors are installed to monitor underground pressurized piping. [Exception: Not required for Emergency Generator Tank Systems (EGTS) meeting the requirements of 23 CCR §2636(f)(6).]	
	CCR §§ 2632(c)(2)(B) 2634(b)	The alarm panel provides both audible and visual alarms. It is located in a protected area and within sight and hearing distance of on-site personnel and hard-wired to a dedicated circuit.	