

Underground Storage Tank

City of Burbank

UST Owners & Operators



Created by:

Kern County Environmental Health CUPA,

Edited by:

Burbank Fire Department for the Burbank Fire
Department's use

Burbank Fire Department



Phone:

(818) 238-3473

Email:

BurbankCERS@burbankca.gov

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Mandate

- In 1999, the Legislature Required SWRCB to Adopt Regulations Requiring Training For:

- Owners and Operators
- Service Technicians
- Installers and
- Inspectors



"...meet minimum industry-established training standards..."

Levels of Responsibilities Defined



- **UST Owner or Operator**
 - Holds the UST operating permit, and is legally responsible for the UST system
- **Designated UST Operator**
 - Has knowledge of UST laws, regulations, and management practices, and has obtained ICC certification
- **Facility Employee**
 - Works with the UST system on a routine basis, and is trained by UST Designated Operator

Responsibilities of an Owner / Operator

All UST Owners & Operators must:

- Be registered with the appropriate regulatory authority (CERS), and meet leak detection requirements.
- In addition owners and operators must:
 - Meet Financial Responsibility requirements
 - Perform a site check and corrective action in response to leaks, spills and overfills
 - Follow regulatory rules during installation of new tanks and closure of existing tanks
 - Maintain records as required
 - Have periodic checks performed on corrosion protection and leak detection systems put forth by the state and local authorities that implement the UST program

Responsibilities of an Owner / Operator

■ Statement of Compliance

- California Code of Regulations, Title 23, Section 2715(a)
- Owner understands, and is in compliance with, all applicable UST requirements
- Designated UST Operator name and contact information are to be uploaded into CERS whenever there is a change of Owner or Designated Operator

Regulatory Definition: Designated UST Operator

- Designated UST Operator:

One or more individuals designated by the owner to have responsibility for training facility employees and conducting monthly visual inspections at an UST facility. A “Designated UST Operator” is not considered the “Operator” ..., although the same individual may hold both positions.

California Code of Regulations, Title 23,
Section 2611



Requirements of a D.O.

Effective January 1, 2005

- Possess a current California UST System Operator certification issued by the International Code Council (ICC)
- **Certification must be renewed every 2 years**
- Perform monthly visual inspections for each facility and maintain a log
- Provide on-the-job training for facility employee(s) re-train every 12 months
- New employees must receive training within 30 days of hire



Monthly Visual Inspection



- Review alarm history for previous month, and check that each alarm was responded to appropriately
- Inspect spill containers and under dispenser containment for water, debris, and hazardous substances (fuel)
- Check that monitoring equipment in under dispenser containment is located in the upright position at the lowest point to detect a leak
- Check sumps if in alarm

Monthly Visual Inspection

- Inspection of tank-top sumps is required ONLY when there has been an alarm in that sump within the last month, and there is no record of a service visit
- If sump inspection is required, check for:
 - water, debris, hazardous substance (fuel) in the sump
 - monitoring equipment in the upright position at the lowest point



Monthly Visual Inspection

- Check that all required testing and maintenance for the UST has been completed
- Examples include annual monitoring system certification, tightness testing, secondary containment testing (SB 989), ELD, cathodic protection testing, monthly ATG test required for single walled tanks to detect a 0.2 gph leak rate, single wall tank interior lining, line leak detector test, etc.
- Verify that facility employees have been trained as required

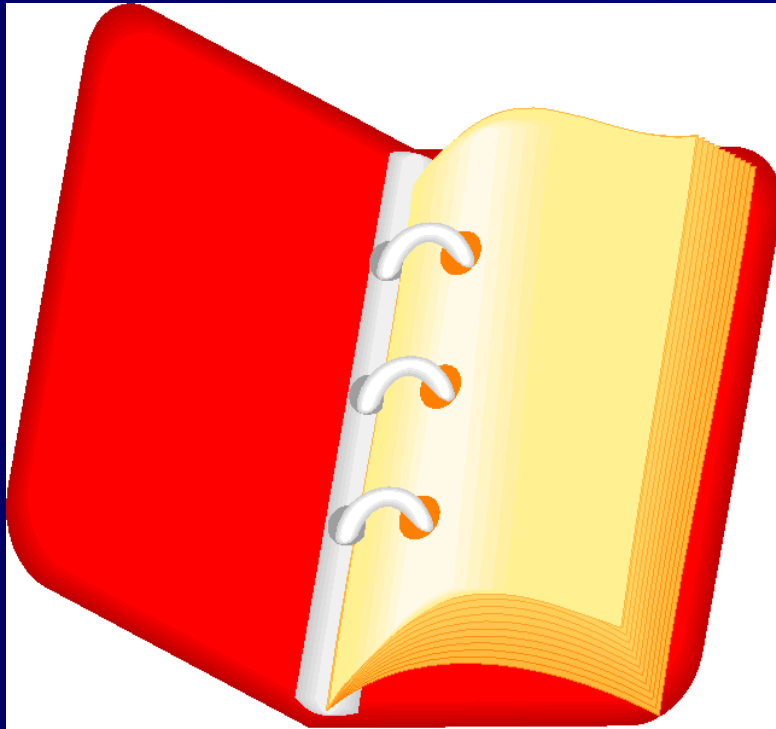


Recording the Monthly Inspection



- Inspection results must be recorded, and a copy given to the UST Owner
- The UST owner must maintain monthly inspection records for at least 12 months
- **The Designated Operator must notify the Owner/Operator of any conditions that require follow-up action**
- **It is the OWNER/OPERATOR's responsibility to make any repairs, clean-ups, or schedule testings.**

Binder Recommendations



Maintain all records
onsite

CERS

California Environmental Reporting System

- A statewide, web-based system – www.cers.calepa.ca.gov
- Supports businesses and Unified Program Agencies with electronically reporting, collecting, and managing hazardous materials-related data
- Mandated by the California Health and Safety Code and AB 2286

CERS

CERS Reporting Requirements

- **HMIS**
- Must be verified and resubmitted annually

REQUIRED

CERS Forms

Located at [Burbank Fire Department Website](#)

- Monitoring Plan [\(Instructions\)](#) [\(Form\)](#)
 - [Monitoring Site Map](#)
 - Certificate of Financial Responsibility [\(Instructions\)](#) [\(Form\)](#)
 - [UST Response Plan](#)
 - [Owner Statement of Designated UST Operator](#)
- Letter from Chief Financial Officer [\(Instructions\)](#) [\(Form\)](#)
- UST Owner Operator Agreement [\(Instructions\)](#) [\(Form\)](#)

Training to Include

- Emergency Procedures as indicated in Emergency Response Plan
- Employee's responsibilities regarding spill/overflow response and notification
- Emergency shut-off locations and procedures
- Employee's responsibilities regarding monitoring equipment and alarm response according to best management practices



UST Monitoring Site Plan

- Must include and depict:
 - USTs
 - Piping
 - Line leak detectors
 - Sensors (annular space, sumps, UDCs, etc.)
 - Tank level monitors
 - Monitors
 - Dispensers
 - Spill containers
 - Emergency shut-off

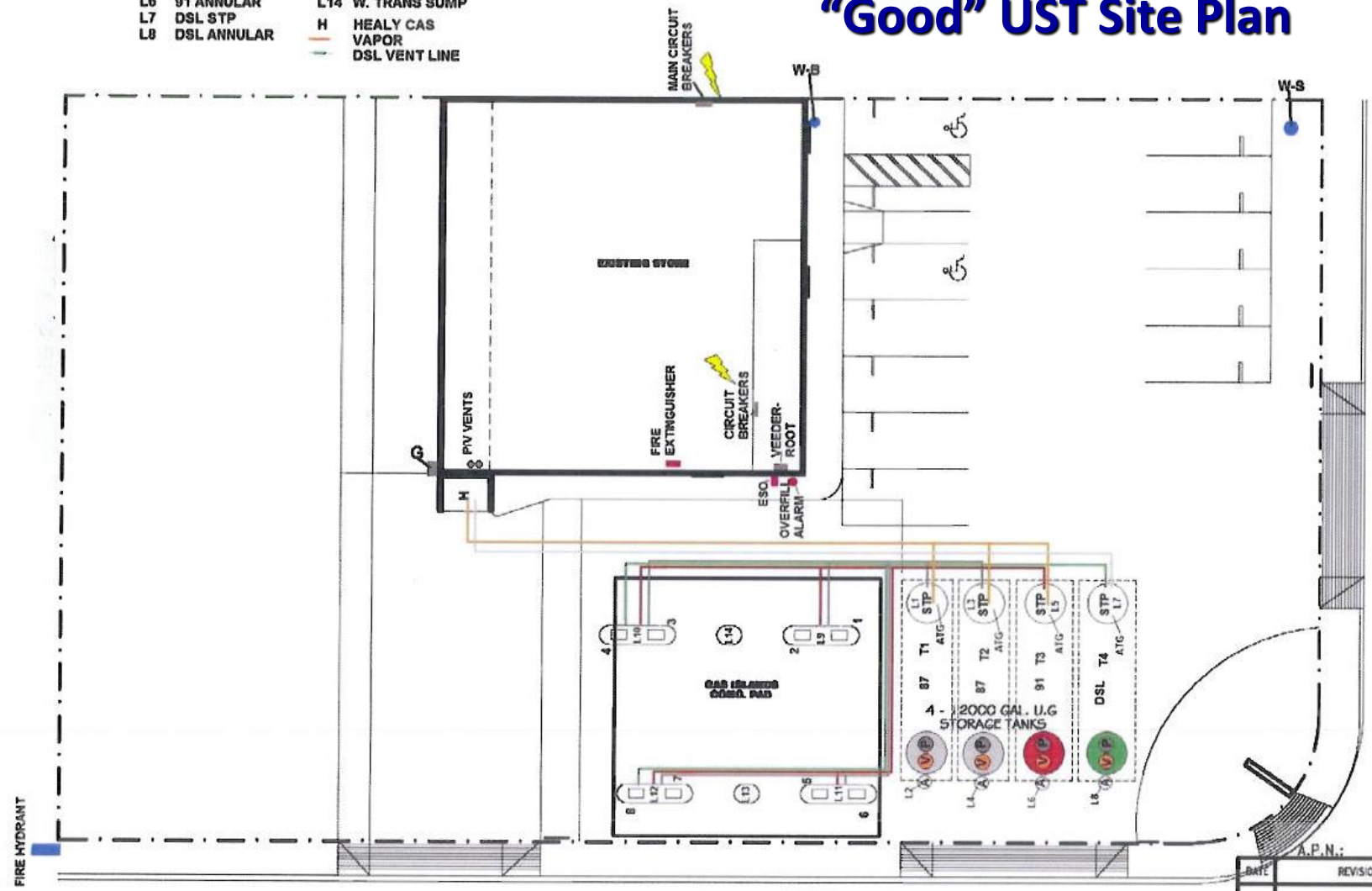
LEGEND

- L1 87-1 STP
- L2 87-1 ANNULAR
- L3 87-2 STP
- L4 87-2 ANNULAR
- L5 91 STP
- L6 91 ANNULAR
- L7 DSL STP
- L8 DSL ANNULAR
- L9 UDC 1 - 2
- L10 UDC 3 - 4
- L11 UDC 5 - 6
- L12 UDC 7 - 8
- L13 E. TRANS. SUMP
- L14 W. TRANS SUMP
- H HEALY GAS
- V VAPOR
- DSL VENT LINE

- G NATURAL GAS SHUTOFF
- W-S WATER SHUTOFF (AT STREET)
- W-B WATER SHUT OFF (AT BLDG)

SITE PLAN for:

"Good" UST Site Plan



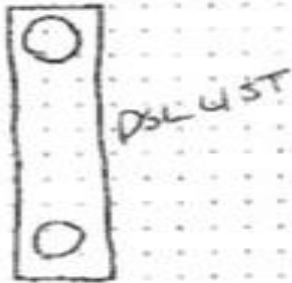
DATE	REVISIONS

scale: 1"=30'



<table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>					<p>SITE PLAN</p> <p>CONVENIENCE MARKET IMPROVEMENT FOR:</p>	<p>TAB-24436(25)</p> <p>DATE: 3/4/2011</p> <p>SHEET NO. A-0</p> <p>OF 1</p>

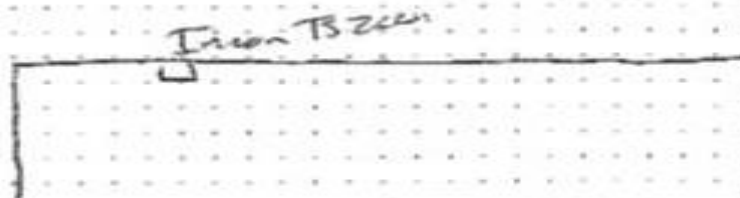
"Bad" UST Site Plan



6 □ 5

4 □ 3

2 □ 1



Date map was drawn: 3/1/12

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

Testing Frequencies

- Annual Monitoring Certification
Annually
- Secondary containment testing (SB989)
6 months after initial installation and every 3 yrs afterwards.
- Line test ... single wall vs. double wall
- Tank Integrity test
- Single wall tank lining integrity test
10 years and then every 5 years
- Cathodic protection system testing
3 years + 60 day logs
- Enhanced Leak Detection



Alarm/repair log

ALARM/REPAIR LOG

Facility Name: _____ Address: _____

INSTRUCTIONS:

complete an entry for each deficiency /alarm that you entered on the Daily Inspection Form. Maintain copies of receipts, or other documentation for parts and/or equipment used in the repair. If applicable, work orders shall include the name (printed) and signature of the person responsible for performing the repairs.

DATE OF DEFICIENCY/ALARM	DESCRIPTION	DATE/TIME OF REPAIR	DESCRIPTION OF REPAIR OR REMEDY LIST EACH COMPONENT REPAIRED, REPLACED AND/OR INSTALLED INCLUDING THE MAKE, MODEL AND SERIAL NUMBER	NAME, COMPANY, ADDRESS & PHONE NUMBER OF PERSON WHO PERFORMED REPAIR

- If alarm recorded on Daily inspection log, it must be recorded on here as well
- Inventory warnings are not required to be recorded
- Be sure to note the response to alarm or repair

Record Retention

- Monitor Certifications & SB989 tests
3 years
- Monthly D.O. reports
12 months
- Cathodic protection tests
6 ½ years
- Modifications and/or repairs
Life
- Training Documentation
1-2 years



Violation Classification



Minor



Class II

Class I

Minor Violations

- Health and Safety Code, Section 25404

Examples of Minor Violations:

- Failure to update or submit complete tank and facility forms
- No maintenance and monitoring records on site
- Training records not onsite

Class II Violations



■ Health and Safety Code, Section 25117.6

Examples of Class II Violations:

- Failure to document a recordable release
- Mechanical monitoring device within the UST system is not operational
- A device to remove liquid from the spill bucket is not available/functional
- Timely repairs were not made following a failed secondary containment test
- Owner/Operator did not designate an ICC certified Designated Operator
- Owner/Operator does not have monthly inspection records

Class I Violations

- Health and Safety Code, Section 25117.6

Examples of Class I Violations:

- Tampering with monitoring equipment
- Failure to repair non-functional monitoring equipment
- Failure to report an unauthorized release.
- Failure to repair secondary containment
- Failure to complete/pass secondary containment testing
- Failure to properly close a UST
- Failure to complete Annual Monitoring Certification



Red Tag Authority



- CCR Title 23, Division 3, Chapter 16, Underground Tank Regulations Article 10.5
- Upon the discovery of a significant violation that poses an imminent threat to human health, safety, or the environment, immediately affix a red tag to the fill pipe to provide notice that the delivery of petroleum into the UST system is prohibited

What's wrong with these...?



???



Sensor in wrong location and not picking up leak

???



Liquid in sump

???



Sensor is mounted wrong and wrong position



???

Penetrations are possible leak locations

???



Raised sensor, should be lowered

???



Sensor in wrong location and not properly mounted

ENFORCEMENT PROCESS

- Violations noted during Routine Inspection
- Notice of Violation (NOV) and letter to correct
- Referral to City Attorney