STATE WATER RESOURCES CONTROL BOARD RESOLUTION NO. 2018-0025

ADOPTING AMENDMENTS TO THE CALIFORNIA UNDERGROUND STORAGE TANK REGULATIONS FOR RECONCILIATION WITH THE FEDERAL UNDERGROUND STORAGE TANK REGULATIONS

WHEREAS:

- 1. Effective October 13, 2015, the United States Environmental Protection Agency (U.S. EPA) amended part 280 of 40 Code of Federal Regulations (Federal UST Regulations) for underground storage tank (UST) systems.
- 2. Some of the new requirements in the Federal UST Regulations became effective immediately on October 13, 2015. Other requirements have staggered implementation dates out to October 13, 2018.
- 3. Because California does not have an approved State UST Program, UST owners and operators in California currently are required to comply with both:
 - a. The Federal UST Regulations, some of which are more stringent than, or are inconsistent with, chapter 16 of division 3 of title 23 of the California Code of Regulations (California UST Regulations), which are implemented and enforced by the United States Environmental Protection Agency (U.S. EPA); and
 - b. The California UST Regulations which are implemented and enforced by the State Water Board and the Unified Protection Agencies (UPAs) (who implement the existing California UST program on the State Water Board's behalf).
- 4. It is highly undesirable for California UST owners and operators to continue to be required to meet one set of UST requirements enforced by the State Water Board and the UPAs and another set of UST requirements enforced by the U.S. EPA.
- 5. A California UST program that is not at least as stringent as the Federal UST program by October 13, 2018, when the Federal UST Regulations are fully implemented, may ultimately affect the State Water Board's continued funding from the U.S. EPA.
- 6. The State Water Board has proposed amendments to the California UST Regulations to make the California UST Regulations at least as stringent as the Federal UST Regulations and include any more stringent requirements necessary to implement chapter 6.7 of division 20 of the Health and Safety Code.
- 7. The State Water Board also proposes to clarify certain requirements under existing the California UST Regulations to be consistent with the Federal UST Regulations.
- 8. The proposed California UST Regulations will amend existing reporting requirements and impose new reporting requirements to make specific the method of reporting specified information through the use of new forms contained in the proposed regulations that are consistent with common practice and existing reporting requirements.

- 9. The proposed California UST Regulations will be at least as stringent as the Federal UST Regulations and will better protect public health, safety, and the environment by reducing the risk of releases of hazardous substances to the environment.
- 10. The State Water Board published and distributed a Notice of Proposed Regulatory Action on November 17, 2017. The 45-day public comment period ended on January 2, 2018 and the State Water Board received written comments, but no request for a public hearing. Responses to all timely comments and two late comments received on the proposed regulations are contained in the Final Statement of Reasons.
- 11. The State Water Board published and distributed a Notice of Modification to Text of Proposed Regulations and the modified text of the proposed regulations on March 26, 2018, for a 15-day public comment period that ended on April 11, 2018. Responses to all timely comments received on the modifications to the proposed regulations are contained in the Final Statement of Reasons.
- 12. The proposed California UST Regulations include certain changes from the modified text that are nonsubstantial or solely grammatical in nature. These changes are identified and discussed in the Final Statement of Reasons.

THEREFORE BE IT RESOLVED THAT:

- 1. The State Water Board adopts the amendments to California Code of Regulations, title 23, division 3, chapter 16 (Attachment A);
- The State Water Board authorizes the Executive Director or designee to transmit the regulations to the Office of Administrative Law for approval and filing with the Secretary of State; and
- 3. The State Water Board authorizes the Executive Director or designee to make any non-substantive revisions to the regulations to address any concerns of the Office of Administrative Law.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Resources Control Board held on June 5, 2018.

AYE: Chair Felicia Marcus

Vice Chair Steven Moore Board Member Tam M. Doduc Board Member Dorene D'Adamo Board Member E. Joaquin Esquivel

NAY: None ABSENT: None ABSTAIN: None

> Jeanine Townsend Clerk to the Board

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Attachment A

Proposed Amendments
to the
California Code of Regulations
Title 23. Waters
Division 3. State Water Resources Control Board
and Regional Water Quality Control Boards
Chapter 16. Underground Storage Tank
Regulations

Modified All Modifications to the

PROPOSED AMENDMENTS

November 2017 March June 2018

State Water Resources Control Board Division of Water Quality

The proposed amendments: insertions shown as red single strikethrough. The modified proposed amendments: insertions shown as blue double strikethrough. The nonsubstantive and grammatical amendments: insertions shown as green italicized single underline and deletions shown as green italicized single strikethrough.

DRAFT

TITLE 23. WATERS DIVISION 3. STATE WATER RESOURCES CONTROL BOARD AND REGIONAL WATER QUALITY CONTROL BOARDS CHAPTER 16. UNDERGROUND TANK REGULATIONS

Article 1. Definition of Terms

§ 2611. Additional Definitions.

Unless the context requires otherwise, the following definitions shall apply to terms used in this chapter.

"Bladder system" means a flexible or rigid material which provides primary containment including an interstitial monitoring system designed to be installed inside an existing underground storage tank.

"Best management practice" means any underground storage tank system management and operation practice that is the most effective and practicable method of preventing or reducing the probability of a release.

"Cathodic protection tester" means any individual who can demonstrate an understanding of the principles and measurements of all common types of cathodic protection systems as applied to buried or submerged metallic piping and underground storage tank systems. Such an individual shall possess a current certificate from the National Association of Corrosion Engineers or the International Code Council, demonstrating education and experience in soil resistivity, stray current, structure-to-soil potential, and component electrical isolation measurements of buried or submerged metallic piping and underground storage tank systems.

"Coatings expert" means a person who, by reason of thorough training, knowledge and experience in the coating of metal surfaces, is qualified to engage in the practice of internal tank lining inspections. The term includes only those persons who are independent of any lining manufacturer or applicator and have no financial interest in the tank or tanks being monitored.

"Compatible" means the ability of two or more substances to maintain their respective physical and chemical properties upon contact with one another for the design life of the tank system under conditions likely to be encountered in the underground storage tank.

"Connected piping" means all underground piping including valves, elbows, joints, flanges, and flexible connectors attached to a tank system through which hazardous substances flow. For the purpose of determining how much piping is connected to any individual underground storage tank system, the piping that joins two underground storage tank systems should be allocated equally between them.

"Continuous monitoring" means a system using equipment which routinely performs the required monitoring on a periodic or cyclic basis throughout each day.

"Corrosion specialist" means any individual who, by reason of thorough knowledge of the physical sciences and the principles of engineering and mathematics acquired by a professional

education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metallic piping and underground storage tank systems. Such an individual shall possess a current certificate from the National Association of Corrosion Engineers as a corrosion specialist, or be a registered professional engineer with a current certificate or license requiring education and experience in corrosion control of buried or submerged metallic piping and underground storage tank systems.

"Decommissioned tank" means an underground storage tank which cannot be used for one or more of the following reasons: 1) the tank has been filled with an inert solid; 2) the fill pipes have been sealed; or, 3) the piping has been removed.

"Designated underground storage tank operator" or "designated UST operator" means one or more individuals designated by the owner <u>or operator</u> to have responsibility for training facility employees and conducting <u>monthly</u> visual inspections at an underground storage tank facility. A "designated UST operator" is not considered the "operator" as defined in Chapter 6.7 of Division 20 of the Health and Safety Code, although the same individual may hold both positions.

"Dispenser" means an aboveground or underground device that is used for the delivery of a hazardous substance from an underground storage tank. Dispenser includes metering and delivery devices, and fabricated assemblies located therein.

"Emergency containment" means a containment system for accidental spills which are infrequent and unpredictable.

"Excavation zone" means the volume containing the tank system and backfill material bounded by the ground surface, walls, and floor of the pit and trenches into which the underground storage tank system is placed at the time of installation.

"Existing underground storage tank" means an underground storage tank installed prior to January 1, 1984. The term also includes an underground storage tank installed before January 1, 1987 and which is located on a farm, has a capacity greater than 1,100 gallons, and stores motor vehicle fuel used primarily for agricultural purposes and not for resale.

"Facility employee" means an individual who is employed on-site at an underground storage tank facility, and who may be called upon to respond to spills, overfills, or other problems associated with the operation of the underground storage tank system. A "facility employee" is not considered the "operator" as defined in Chapter 6.7 of Division 20 of the Health and Safety Code, although the same individual may hold both positions.

"Fail safe" means that a monitoring system will shut down the turbine pump in the event of a power outage, or when the monitoring system fails or is disconnected.

"Farm tank" means any one tank or a combination of manifolded tanks that: 1) are located on a farm; and, 2) holds no more than 1,100 gallons of motor vehicle fuel which is used primarily for agricultural purposes and is not held for resale.

"First ground water" means the uppermost saturated horizon encountered in a bore hole. "Free product" refers to a hazardous substance that is present as a non-aqueous phase liquid (e.g., liquid not dissolved in water).

"GeoTracker" has the same meaning as "Geotracker" as defined in section 3891 of title 23 of the California Code of Regulations.

"Ground water" means subsurface water which will flow into a well.

"Hazardous substance" means a substance which meets the criteria of either paragraph (1) or paragraph (2) of subdivision (h) of section 25281(h)(1) or (2) of the Health and Safety Code.

"Heating oil tank" means a tank located on a farm or at a personal residence and which holds no more than 1,100 gallons of home heating oil which is used consumptively at the premises where the tank is located.

"Holiday," when used with respect to underground storage tank coating or cladding, means a pinhole or void in a protective coating or cladding.

"Hydraulic lift tank" means a tank holding hydraulic fluid for a closed loop mechanical system that uses compressed air or hydraulic fluid to operate lifts, elevators, and other similar devices.

"Inconclusive" means the conclusion of a statistical inventory reconciliation report that is not decisive as to whether a release has been detected.

"Independent testing organization" means an organization which tests products or systems for compliance with voluntary consensus standards. To be acceptable as an independent testing organization, the organization shall not be owned or controlled by any client, industrial organization, or any other person or institution with a financial interest in the product or system being tested. For an organization to certify, list, or label products or systems in compliance with voluntary consensus standards, it shall maintain formal periodic inspections of production of products or systems to ensure that a listed, certified, or labeled product or system continues to meet the appropriate standards.

"Independent third party" means independent testing organizations, consulting firms, test laboratories, not-for-profit research organizations and educational institutions with no financial interest in the matters under consideration. The term includes only those organizations which are not owned or controlled by any client, industrial organization, or any other institution with a financial interest in the matter under consideration.

"Integral secondary containment" means a secondary containment system manufactured as part of the underground storage tank.

"Interstitial liquid level measurement" method (as the term is used in section 25290.1 of the Health and Safety Code) or "hydrostatic monitoring" method means a release detection method that continuously monitors the liquid level within a liquid-filled interstitial space of an underground storage tank. The term includes only those release detection systems that are capable of detecting a breach in the primary or secondary containment of the underground storage tank component(s) being monitored before the hazardous substance stored is released to the environment. To accomplish this, the liquid in the interstitial space shall be maintained at a pressure greater than the operating pressure found within the component(s) being monitored. This pressure may be achieved, for example, by adequately elevating the liquid reservoir or by pressurizing the liquid-filled interstice. Hydrostatic monitoring methods shall meet the requirements of section 2643, subdivision (f).

"Interstitial space" means the space between the primary and secondary containment systems.

"Leak threshold" means the value against which test measurements are compared and which serves as the basis for declaring the presence of a leak. The leak threshold is set by the manufacturer in order to meet state and federal requirements. Leak threshold is not an allowable leak rate.

"Liquid asphalt tank" means an underground storage tank which contains steam-refined asphalts.

"Liquefied petroleum gas tank" means an underground storage tank which contains normal butane, isobutane, propane, or butylene (including isomers) or mixtures composed predominantly thereof in a liquid or gaseous state having a vapor pressure in excess of 40 pounds per square inch absolute at a temperature of 100 degrees Fahrenheit.

"Maintenance" means the normal operational upkeep to prevent an underground storage tank system from releasing hazardous substances.

"Manufacturer" means any business which produces any item discussed in these regulations.

"Manual inventory reconciliation" means a procedure for determining whether an underground tank system is leaking based on bookkeeping calculations, using measured throughput and a series of daily inventory records taken manually by the tank owner or operator or recorded electronically. This terms term does not include procedures which are based on statistical inventory reconciliation.

"Membrane liner" means any membrane sheet material used in a secondary containment system. A membrane liner shall be compatible with the substance stored.

"Membrane liner fabricator" means any company which converts a membrane liner into a system for secondary containment.

"Membrane manufacturer" means any company which processes the constituent polymers into membrane sheeting from which the membrane liner is fabricated into a system for secondary containment.

"Month" means a calendar month.

"Motor vehicle" means a self-propelled device by which any person or property may be propelled, moved, or drawn.

"Motor vehicle fuel tank" means an underground storage tank that contains a petroleum product. The definition does not include underground storage tanks that contain used oil.

"New underground storage tank" means an underground storage tank which is not an existing underground storage tank.

"Non-volumetric test" means a tank integrity test method that ascertains the physical integrity of an underground storage tank through review and consideration of circumstances and physical phenomena internal or external to the tank. "Operational life" means the period beginning when installation of the tank system has begun until the time the tank system should be properly closed.

"Operator" means any person in control of, or having responsibility for, the daily operation of an underground storage tank system.

"Person,", as defined in Chapter 6.7 of Division 20 of the Health and Safety Code includes any entity defined as a person under the federal act.

"Perennial ground water" means ground water that is present throughout the year.

"Petroleum" means petroleum including crude oil, or any fraction thereof, which is liquid at standard conditions of temperature and pressure, which means at 60 degrees Fahrenheit and 14.7 pounds per square inch absolute.

"Pipeline leak detector" means a continuous monitoring system for underground piping capable of detecting at any pressure, a leak rate equivalent to a specified leak rate and pressure, with a probability of detection of 95 percent or greater and a probability of false alarm of <u>5 five</u> percent or less.

"Probability of detection" means the likelihood, expressed as a percentage, that a test method will correctly identify a leaking underground storage tank.

"Probability of false alarm" means the likelihood, expressed as a percentage, that a test method will incorrectly identify a "tight" tank as a leaking underground storage tank.

"Qualitative release detection method" means a method which detects the presence of a hazardous substance or suitable tracer outside the underground storage tank being tested.

"Quantitative release detection method" means a method which determines the integrity of an underground storage tank by measuring a release rate or by determining if a release exceeds a specific rate.

"Release detection method or system" means a method or system used to determine whether a release of a hazardous substance has occurred from an underground tank system into the environment or into the interstitial space between an underground tank system and its secondary containment.

"Repair" means to restore a tank or underground storage tank system component that has caused a release of a hazardous substance from the underground storage tank system. The term "repair" also includes restoring to proper operating condition a tank, pipe, spill container, overfill prevention equipment, corrosion protection equipment, release detection equipment, or other underground storage tank system component that have ceased to function properly and cause the underground tank system to be out of compliance with this chapter.

"Septic tank" means a tank designed and used to receive and process biological waste and storage.

"Service technician" means any individual who installs or tests monitoring equipment, or provides maintenance, service, system programming or diagnostics, calibration, or trouble-shooting for underground storage tank system components.

"Statistical inventory reconciliation" means a procedure to determine whether a tank is leaking based on the statistical analysis of measured throughput and a series of daily inventory records taken manually by the tank owner or operator or recorded electronically.

"Statistical inventory reconciliation provider" means the developer of a statistical inventory reconciliation method that meets federal and state standards as evidenced by a third-party third party evaluation conducted according to section 2643(f), or an entity that has been trained and certified by the developer of the method to be used. In either case, the provider shall have no direct or indirect financial interest in the underground storage tank being monitored.

"Storm water or wastewater collection system" means piping, pumps, conduits and any other equipment necessary to collect and transport the flow of surface water run-off resulting from precipitation, or domestic, commercial, or industrial wastewater to and from retention areas or any areas where treatment is designated to occur. The collection of storm water and wastewater does not include treatment except where incidental to conveyance.

"Submit" means to provide documentation or information to the State Water Board, the Regional Water Quality Board, or the local agency by the specified method. If no method is specified herein, submittal may be made by hand-delivery, mail, or facsimile or other electronic methods, unless otherwise directed by the agency that will receive the submittal. If the method specified is through the California Environmental Reporting System or a local reporting portal, but at the time of the submittal the California Environmental Reporting System data dictionary does not define the data elements for the submittal and there is no specific-named document upload option for that submittal, then it shall be as though no method is specified.

"Substantially beneath the surface of the ground" means that at least 10 percent of the underground tank system volume, including the volume of any connected piping, is below the ground surface or enclosed below earthen materials.

"Sump," "pit," "pond," or "lagoon" means a depression in the ground which lacks independent structural integrity and depends on surrounding earthen material for structural support of fluid containment.

"Tank integrity test" means a test method that can ascertain the physical integrity of any underground storage tank. The term includes only test methods which are able to detect a leak of 0.1 gallons per hour with a probability of detection of at least 95 percent and a probability of false alarm of 5-five percent or less. The test method may be either volumetric or non-volumetric in nature. A leak rate is reported using a volumetric test method, whereas, a non-volumetric test method reports whether a substance or physical phenomenon is detected which may indicate the presence of a leak.

"Unauthorized release" as defined in Chapter 6.7 of Division 20 of the Health and Safety Code does not include intentional withdrawals of hazardous substances for the purpose of legitimate sale, use, or disposal.

"Under-dispenser containment" means secondary containment that is located under a dispenser.

"Under-dispenser spill containment or control system" means a device that is capable of preventing an unauthorized release from under the dispenser from entering the soil or groundwater or both.

"Upgrade" means the addition or retrofit of some systems such as cathodic protection, lining, secondary containment, or spill containers, and or overfill prevention equipment controls to improve the ability of an underground storage tank system to prevent the release of hazardous substances.

"Volumetric test" means a tank integrity test method that ascertains the physical integrity of any underground storage tank through review and comparison of tank volume.

"Voluntary consensus standards" means standards that shall be developed after all persons with a direct and material interest have had a right to express a viewpoint and, if dissatisfied, to appeal at any point (a partial list of the organizations that adopt voluntary consensus standards are shown in Appendix I, Table B).

"Wastewater treatment tank" means a tank designed to treat influent wastewater through physical, chemical, or biological methods and which is located inside a public or private wastewater treatment facility. The term includes untreated wastewater holding tanks, oil water separators, clarifies clarifiers, sludge holding tanks, filtration tanks, and clarified water tanks that do not continuously contain hazardous substances.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25282, 25283, 25284, 25284.1, 25290.1, 25292.3, 25296.35, 25299.5(a), 25404 and 25404.1, Health and Safety Code; and 40 CFR §§ 280.10, and 280.12 and 280.36.

Article 2. General Provisions

§ 2620. General Intent, Content, Applicability and Implementation of Regulations.

- (a) The regulations in this chapter are intended to protect waters of the state from discharges of hazardous substances from underground storage tanks. These regulations establish construction requirements for new underground storage tanks; establish separate monitoring requirements for new and existing underground storage tanks; establish uniform requirements for unauthorized release reporting and for repair, upgrade, and closure of underground storage tanks; and specify variance request procedures.
- (b) Owners and operators shall comply with these regulations except as otherwise specifically provided herein. If the operator is not the owner, then the owner shall enter into a written contract with the operator requiring the operator to monitor the underground storage tank; maintain appropriate records; and implement reporting procedures as required by any applicable permit. Both the owner and operator are responsible for assuring that the underground storage tank system is repaired or upgraded in accordance with Article 6, or closed in accordance with Article 7, as appropriate.
- (c) Counties shall implement the regulations in this chapter within both the incorporated and unincorporated areas of the county through the issuance of underground storage tank operating permits to underground storage tank owners. A city may, by ordinance, assume the responsibility for implementing the provisions of this chapter within its boundaries in accordance with section 25283 of the Health and Safety Code. Local agencies shall issue an operating permit for each underground storage tank, for several underground storage tanks, or for each facility, as appropriate, within their jurisdiction.

- (d) Owners and operators shall comply with the construction and monitoring requirements of Article 3 (new underground storage tanks) or the monitoring requirements of Article 4 (existing underground storage tanks). However, owners of existing underground storage tanks which meet the construction and monitoring requirements of Article 3 may be issued operating permits pursuant to the requirements of Article 3 in lieu of the requirements of Article 4. In addition, owners or operators of underground storage tanks shall comply with the release reporting requirements of Article 5, the repair and upgrade requirements of Article 6, the closure requirements of Article 7, the underground storage tank operating permit requirements of Article 10 and the corrective action requirements of Article 11.
- (e) On and after the effective date of this subdivision, the period between all testing and inspections shall not exceed the maximum number of months set forth in these regulations.

 All testing and inspections shall be completed anytime before or during the month the testing or inspection is required.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25283, 25284, 25299.1 and 25299.3, Health and Safety Code; and 40 CFR 280.

- § 2621. Exemptions to the Regulations.
- (a) The term "underground storage tank" excludes <u>all of</u> the following, except those of the following to the extent they are included in the definition of an underground storage tank in 40 CFR, part 280.12 as modified by paragraphs (b), and (c), (d), of 40 CFR, part 280.10.
 - (1) A farm tank.
 - (2) A heating oil tank.
 - (3) A hydraulic lift tank in accordance with section 25281(y) of the Health and Safety Code.
 - (4) A liquefied petroleum gas tank.
 - (5) A liquid asphalt tank.
 - (6) A septic tank.
 - (7) A sump, pit, pond, or lagoon.
 - (8) A wastewater treatment tank except a tank which is that is part of a wastewater treatment facility regulated under section 402 or 307(b) of the Clean Water Act (33 U.S.C.—Sec. § 1251 et seq.) and is not part of an underground storage tank system.
 - (9) A pipeline located in a refinery or in an oil field unless the pipeline is connected to an underground storage tank.
 - (10) Storm water or wastewater collection systems.
 - (11) Tanks containing radioactive material such as spent fuel pools, radioactive waste storage tanks, and similar tanks under the Atomic Energy Act of 1954 (42 USC 2011 U.S.C.—Sec. § 2011 et seq.) and following.

- (12) An emergency containment tank kept empty to receive accidental spills and approved for such use by the appropriate local agency.
- (13) Drums located in basements and which contain 55 gallons or less of a hazardous substance.
- (14) Underground storage tanks containing hazardous wastes as defined in Section section 25316 of the Health and Safety Code if the person owning or operating the underground storage tank has been issued a hazardous waste facilities permit for the underground storage tank by the Department of Toxic Substances Control pursuant to section 25200 of the Health and Safety Code or granted interim status under section 25200.5 of the Health and Safety Code.
- (15) A tank and associated piping located in a vault or basement and which meets the requirements of section 25283.5 of the Health and Safety Code.
- (16) Any structure specifically exempted by section 25281(y) of the Health and Safety Code.
- (b) Sumps which are a part of a monitoring system required under Article 3 are considered part of the secondary containment or leak detection system of the primary containment and are required to meet the appropriate construction criteria.
- (c) The owner of a farm or heating oil tank or any tank which is exempt from regulation as an underground storage tank by virtue of its use shall, prior to any change which results in the tank becoming subject to regulation, obtain a valid operating permit.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25283.5 and 25299.1, Health and Safety Code; and 40 CFR §§ 280.10, 280.12.

Article 3. New Underground Storage Tank Design, Construction, and Monitoring Requirements

- § 2631. Design and Construction Requirements for New Underground Storage Tanks.
- (a) All new underground storage tanks including associated piping used for the storage of hazardous substances shall have primary and secondary containment. Primary containment shall be product-tight. Secondary containment may be manufactured as an integral part of the primary containment or it may be constructed as a separate containment system. Secondary containment systems shall be designed and constructed such that the secondary containment system can be periodically tested in accordance with section 2637(a).
- (b) Except as provided in <u>subdivision subsection</u> (j) <u>below</u>, the design and construction of all primary containment including any integral secondary containment system, shall be approved by an independent testing organization in accordance with industry codes, voluntary consensus standards, or engineering standards. Except as provided in <u>subdivision subsection</u> (j) <u>below</u>, all other components used to construct the primary containment system, such as special accessories, fittings, coatings or linings, monitoring systems, and level controls shall also be approved by an independent testing organization. <u>This requirement</u> These requirements became effective on July 1, 1991 for underground

storage tanks; January 1, 1992 for piping; and shall be effective on January 1, 1995 for all other components. The exterior surface of underground storage tanks shall bear a marking, code stamp, or label showing the following minimum information:

- (1) Engineering standard used;
- (2) Nominal diameter in feet;
- (3) Nominal capacity in gallons;
- (4) Degree of secondary containment:
- (5) Useable capacity in gallons;
- (6) Design pressure in psig pounds per square inch gauge;
- (7) Maximum operating temperature in degrees Fahrenheit;
- (8) Construction materials;
- (9) Year manufactured; and
- (10) Identity of manufacturer.
- (c) A primary containment system with or without an integral secondary containment system shall have wear plates (striker plates) installed, center to center, below all accessible openings. The plates shall be made of steel or other appropriate material if steel is not compatible with the hazardous substance stored. The width of the plate shall be at least eight inches on each side, or shall be equal to the area of the accessible opening or guide tube, whichever is larger. The thickness of the steel plate shall be at least 1/8 inch and those made of other materials shall be of sufficient thickness to provide equivalent protection. The plate, if under 1/4 inch thick, shall be rolled to the contours of the underground storage tank and all plates shall be bonded or tack welded in place. A drop tube-mounted bottom protector may fulfill this requirement.
- (d) A secondary containment system which is not an integral part of primary containment shall be designed and constructed according to an engineering specification approved by a state registered professional engineer or according to a nationally recognized industry code or engineering standard. The engineering specification shall include the construction procedures. Materials used to construct the secondary containment system shall have sufficient thickness, density, and corrosion resistance to prevent structural weakening or damage to the secondary containment system as a result of contact with any released hazardous substance. The following requirements apply to these secondary containment systems:
 - (1) The secondary containment system shall be constructed to contain at least the following volumes:
 - (A) One hundred percent of the usable capacity of the primary containment system where only one primary container is within the secondary containment system.

- (B) In the case of multiple primary containers within a single secondary containment system, the secondary containment system shall be large enough to contain 150 percent of the volume of the largest primary container within it, or 10 percent of the aggregate internal volume of all primary containers within the secondary containment system, whichever is greater. When all primary containers are completely enclosed within the secondary containment system, the restrictions of this <u>subdivision</u> <u>subsection</u> do not apply.
- (2) If the secondary containment system is open to rainfall, it shall be constructed to accommodate the volume of precipitation which could enter the secondary containment system during a 24-hour, 25-year storm in addition to the volume specified in subdivision subsection (d)(1) above.
- (3) If backfill material is placed in the secondary containment system, the volumetric requirements for the pore space shall be equal to the requirement in subsection (d)(1) above. The available pore space in the secondary containment system backfill shall be determined using standard engineering methods and safety factors. The specific retention and specific yield of the backfill material, the location of any primary container within the secondary containment, and the proposed method of operation for the secondary containment system shall be considered in determining the available pore space.
- (4) The secondary containment system shall be equipped with a collection system to accumulate, temporarily store, and permit removal of any liquid within the system.
- (5) The floor of the secondary containment system shall be constructed on a firm base and, if necessary for monitoring, shall be sloped to a collection sump. One or more access casings shall be installed in the sump and sized to allow removal of collected liquid. The access casing shall extend to the ground surface, be perforated in the region of the sump, and be covered with a locked waterproof cap or enclosed in a surface security structure that will protect the access casing(s) from entry of surface water, accidental damage, unauthorized access, and vandalism. A facility with locked gates will satisfy the requirements for protection against unauthorized access and vandalism. The casing shall have sufficient thickness to withstand all anticipated stresses with appropriate engineering safety factors and constructed of materials that will not be structurally weakened by the stored hazardous substance and will not donate, capture, or mask constituents for which analyses will be made.
- (6) Secondary containment systems using membrane liners shall be approved by an independent testing organization in accordance with industry codes, voluntary consensus standards, or engineering standards. A membrane liner shall contain no primary nutrients or food-like substances attractive to rodents and shall meet the requirements in Table 3.1 after a 30-day immersion in the stored hazardous substance.

Table 3.1 Standards for Membrane Liners Some Acceptable Test Methods (See Appendix I, Table A)

Property (A) Tensile strength	Unsupported Liners ASTM D638	Supported Liners ASTM D751	Requirement
Tensile strength at yield		Procedure B (Cut Strip Method)	>300 lbs./in/ of width
Tensile strength at break		(,	>200lbs./in/ of width
(B) Permeability	ASTM E96	ASTM E96	<.0.65 gram/meter ² - hr
(C) Seam strength	ASTM D413	ASTM D751	=Parent material
(D) Solubility	ASTM D471	ASTM 471	<10% by weight
(E) Puncture	FTMS 101C	FTMS 101C	350 lbs.
	Method 2065	Method 2031	80 lbs.
(F) Tear	ASTM D1004	ASTM D751	125 lbs.
	DIEC		50 lbs.

- (7) A membrane liner, if used, shall be installed under the direct supervision of a representative of the membrane liner fabricator or a contractor certified by the fabricator.
- (8) The excavation base and walls for a membrane liner shall be prepared to the membrane liner fabricator's specifications and shall be firm, smooth, and free of any sharp objects or protrusions.
- (9) The site shall be assessed to ensure that the secondary containment is always above the ground water and not in a 25-year flood plain, unless the containment and monitoring designs are for use under such conditions.
- (e) Laminated, coated, or clad materials shall be considered a single wall single-walled and do not fulfill the requirements of both primary and secondary containment.
- (f) Underground storage tanks with integral secondary containment systems, which satisfy the construction requirements of <u>subdivision subsection</u>(b) <u>above</u>, fulfill the volumetric requirements for secondary containment specified in <u>subdivision subsection</u>(d)(1) <u>above</u>.
- (g) Underground storage tanks with secondary containment systems shall be so designed and installed so that any loss of a hazardous substance from the primary containment will be detected by an interstitial monitoring device or method.
- (h) An underground storage tank which contains motor vehicle fuel and which is designed with an integral secondary containment system shall provide 100 percent secondary containment unless it is equipped with the-overfill prevention-system_equipment in accordance with section 2635(b)(2)(c)(1)(C). In this case, the top portion of the tank, no greater than two feet wide along the length of the tank, may be single-walled.
- (i) Tanks designed and constructed pursuant to the provisions of this section shall be monitored according to the provisions of section 2632.

- (j) Effective June 1, 2012, if an independent testing organization approval for containment or components described in subsection (b) above, does not include the compatibility of the hazardous substance stored or to be stored, an owner or operator may submit to the local agency a written, affirmative statement of compatibility for the specific hazardous substance from the manufacturer(s) of the containment or components. The written, affirmative statement of compatibility along with the independent testing approval specified in subdivision (b) above, shall satisfy the requirements in subdivision subsection—(b) above, that all primary containment including any integral secondary containment system and all other components used to construct the primary containment system be approved by an independent testing organization as compatible with the specific hazardous substance stored or to be stored. If an affirmative statement of compatibility made by a manufacturer conflicts with a later determination by an independent testing organization on the compatibility of the hazardous substance stored or to be stored, the written, affirmative statement of compatibility shall no longer satisfy the compatibility requirements of subdivision (b) above.
- (k) <u>Subdivision Subsection (j)</u> <u>above, applies only to underground storage tanks that meet the construction requirements contained in Health and Safety Code-section sections</u> 25291, <u>excluding subdivision (a)(7)</u>, <u>paragraphs (1)-(6)</u>, <u>inclusive and subdivisions (b)-(i)</u>, <u>inclusive</u>, <u>section-25290.1</u>, or <u>section-25290.2</u>, as applicable.
- (I) On and after the effective date of this subdivision, owners or operators shall demonstrate compatibility, 30 days before beginning to store or changing the hazardous substance, for all components used to construct the underground storage tank system which may come into contact with the hazardous substance to be stored and are not subject to subdivisions (b) or (d) above, such as spill containers, overfill prevention equipment, and ancillary equipment, by submitting to the local agency one of the following:
 - (1) A written approval from an independent testing organization, in accordance with industry codes, voluntary consensus standards, or engineering standards, for use with the hazardous substance to be stored;
 - (2) A written approval from a state registered professional engineer for use with the hazardous substance to be stored. The approval shall contain an affirmative statement of compatibility with the substance and a specified acceptable range of blends or concentrations of the substance. The component shall be designed and constructed according to an engineering specification. The engineering specification shall include the construction procedures. Materials used to construct the component shall have sufficient corrosion resistance to prevent damage to the component as a result of contact with the hazardous substance; or
 - (3) A written affirmative statement of compatibility from the manufacturer(s) of the components for use with the hazardous substance to be stored. The statement shall contain an affirmative statement of compatibility with the hazardous substance and a specified acceptable range of blends or concentrations of the hazardous substance.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code.

Reference: Sections 25281, 25284.1 and 25291, Health and Safety Code; and 40 CFR §§ 280.20 and 280.32.

- § 2634. Monitoring and Response Plan Requirements for New Underground Storage Tanks Containing Motor Vehicle Fuel and Constructed Pursuant to Section 2633.
- (a) This section applies only to underground storage tanks containing motor vehicle fuel and which are constructed in accordance with section 2633.
- (b) Owners or operators of tanks which are constructed pursuant to section 2633 and which contain motor vehicle fuel shall implement a monitoring program approved by the local agency and specified in the tank operating permit.
- (c) New tanks which contain motor vehicle fuel and which are constructed in accordance with section 2633 shall be monitored as follows:
 - (1) The leak interception and detection system shall be monitored in accordance with subsection subdivision (d) below of this section;
 - (2) The motor vehicle fuel inventory shall be reconciled according to the performance requirements in section 2646 On and after the effective date of this paragraph, the motor vehicle fuel tank shall be monitored according to the requirements of section 2643; and,
 - (3) All underground piping shall be tested and monitored in accordance with section 2636.
- (d) Before implementing a monitoring program, the owner or operator shall demonstrate to the satisfaction of the local agency that the program is effective in detecting an unauthorized release from the primary container before it can escape from the leak interception and detection system. A monitoring program for leak interception and detection systems shall meet the following requirements:
 - (1) The system shall detect any unauthorized release of the motor vehicle fuel using either:
 - (A) One or more of the continuous monitoring methods provided in Table 3.2. The system shall be connected to an audible and visual alarm system approved by the local agency; or,
 - (B) Manual monitoring. If this method is used, it shall be performed daily, except on weekends and recognized state and/or federal holidays, but no less than once in any 72 hour period. Manual monitoring may be required on a more frequent basis as specified by the local agency.
 - (2) The owner or operator shall prepare a written procedure for routine monitoring, submitted on the "Underground Storage Tank Monitoring Plan" in Title 27, Division 3, Subdivision 1, Chapter 6, which establishes:
 - (A) The frequency of performing the monitoring;
 - (B) The methods and equipment to be used for performing the monitoring;
 - (C) The location(s) where the monitoring will be performed;
 - (D) The name(s) and title(s) of the person(s) responsible for performing the monitoring and/or maintaining the equipment;

- (E) The reporting format;
- (F) The preventive maintenance schedule for the monitoring equipment. The maintenance schedule shall be in accordance with the manufacturer's instructions; and
- (G) A description of the training necessary for the operation of both the tank system and the monitoring equipment.
- (3) For methods of monitoring where the presence of the hazardous substance is not determined directly, for example, where liquid level measurements are used as the basis for determination (i.e., liquid level measurements), the monitoring program shall specify the proposed method(s) for determining the presence or absence of the hazardous substance if the indirect method indicates a possible unauthorized release of motor vehicle fuel.
- (e) A response plan for an unauthorized release shall be developed before the underground storage tank system is put into service. If the leak interception and detection system meets the volumetric requirement of section 2631(d), the local agency shall require the owner to develop a response plan pursuant to the requirements of subsection 2632(d)(2). If the leak interception and detection system does not meet the volumetric requirements of section 2631(d)(1) through (5), the response plan shall consider the following:
 - (1) The volume of the leak interception and detection system in relation to the volume of the primary container;
 - (2) The amount of time the leak interception and detection system shall provide containment in relation to the period of time between detection of an unauthorized release and cleanup of the leaked substance;
 - (3) The depth from the bottom of the leak interception and detection system to the highest anticipated level of ground water;
 - (4) The nature of the unsaturated soils under the leak interception and detection system and their ability to absorb contaminants or to allow movement of contaminants; and
 - (5) The methods and scheduling for removal all of the hazardous substances which may have been discharged from the primary container and are located in the unsaturated soils between the primary container and ground water, including the leak interception and detection system sump.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25291 and 25292, Health and Safety Code; and 40 CFR § 280.41.

- § 2635. Installation and Testing Requirements for All New Underground Storage Tanks.
- (a) Primary and secondary containment systems shall be designed, constructed, tested, and certified to comply, as applicable, with all of the following requirements:

- (1) All underground storage tanks shall be tested at the factory before being transported. The tests shall determine whether the tanks were constructed in accordance with the applicable sections of the industry code or engineering standard under which they were built.
- (2) The outer surface of underground storage tanks constructed of steel shall be protected from corrosion as follows, except that primary containment systems installed in a secondary containment system and not backfilled do not need cathodic protection:
 - (A) Field-installed cathodic protection systems shall be designed and certified as adequate by a corrosion specialist. The cathodic protection systems shall be tested by a cathodic protection tester within six months of installation and at least once every three years 36 months thereafter. The criteria that are used to determine that cathodic protection is adequate as required by this section shall be in accordance with a code of practice developed in accordance with voluntary consensus standards. Impressed-current cathodic protection systems shall also be inspected no less than every 60-calendar days to ensure that they are in proper working order. On and after the effective date of this subparagraph, cathodic protection systems shall be tested within six months of the date of the completion of a repair to the cathodic protection system.
 - (B) Underground storage tanks protected with fiberglass-reinforced plastic coatings, composites, or equivalent non-metallic exterior coatings or coverings, including coating/sacrificial anode systems, shall be tested at the installation site using an electric resistance holiday detector. All holidays detected shall be repaired and checked by a factory authorized repair service before installation. During and after installation, care shall be taken to prevent damage to the protective coating or cladding. Preengineered Pre-engineered corrosion protection systems with sacrificial anodes shall be checked once every three years 36 months in accordance with the manufacturer's instructions. On and after the effective date of this subparagraph, corrosion protection systems with sacrificial anodes shall be checked within six months of the date of the completion of a repair to the cathodic protection system.
- (3) Before installation, the tank shall be tested for tightness at the installation site in accordance with the manufacturer's written guidelines. If there are no guidelines, the primary and secondary containment shall be tested for tightness with air pressure at not less than 3-three pounds per-square-inch square inch (20.68 k Pa kilopascals) and not more than 5-five pounds per-square-inch square inch (34.48 k Pa kilopascals). In lieu of the above, an equivalent differential pressure test, expressed in inches of mercury vacuum, in the interstitial space of the secondary containment, is acceptable. The pressure (or vacuum in the interstitial space) shall be maintained for a minimum of 30 minutes to determine if the tank is tight. If a tank fails the tightness test, as evidenced by soap bubbles, or water droplets, installation shall be suspended until the tank is replaced or repaired by a factory authorized repair service. Following repair or replacement, the tank shall pass a tightness test.
- (4) All secondary containment systems shall pass a post-installation test which meets the approval of the local agency.

- (5) After installation, but before the underground storage tank is placed in service, a tank integrity test shall be conducted to ensure that no damage occurred during installation. The tank integrity test is not required if the tank is equipped with an interstitial monitor certified by a third-party third party evaluator to meet the performance standards of a "tank integrity test" as defined in section 2611, or if the tank is tested using another method deemed by the State Water Resources Control Board to be equivalent.
- (6) All underground storage tanks shall be installed according to a code of practice developed in accordance with voluntary consensus standards and the manufacturer's written installation instructions. The owner or operator shall certify that the underground storage tank was installed in accordance with the above requirements as required by subdivision (d)(f) of this section.
- (7) All underground storage tanks subject to flotation shall be anchored using methods specified by the manufacturer or, if none exist, shall be anchored according to the best engineering judgment.
- (b) All underground storage tanks shall be equipped with a spill container and an overfill prevention system as follows:
- (1) The spill container shall collect that collects any hazardous substances spilled during product delivery operations to prevent the hazardous substance from entering the subsurface environment. The spill container shall meet all of the following requirements:
 - (A)(1) If it is made of metal, the exterior wall shall be protected from galvanic corrosion.
 - (B)(2) It shall have a minimum capacity of five gallons (19 liters).
 - (C)(3) It shall have a drain valve which allows drainage of the collected spill into the primary container or provide a means to keep the spill container empty.
- (2)(c) (1) The All underground storage tanks that do not meet paragraph (2) below shall be equipped with overfill prevention system shall equipment that does not allow for manual override and shall meet meets one of the following requirements:
 - (A) Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm;—or
 - (B) Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or
 - (C) Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or,
 - (D) Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

- (3)(2) The local agency may waive the requirement for overfill prevention equipment where the tank inlet exists in an observable area, the spill container is adequate to collect any overfill, and the tank system is filled by transfers of no more than 25 gallons at one time.
- (d) On and after the effective date of this subdivision, flow restrictors on vent piping do not meet the requirement of subdivision (c) above when overfill prevention equipment is installed.
- (e)(e) Secondary containment systems including leak interception and detection systems installed pursuant to section 2633 shall comply with all of the following:
 - (1) The secondary containment system shall encompass the area within the system of vertical planes surrounding the exterior of the primary containment system. If backfill is placed between the primary and secondary containment systems, an evaluation shall be made of the maximum lateral spread of a point leak from the primary containment system over the vertical distance between the primary and secondary containment systems. The secondary containment system shall extend an additional distance beyond the vertical planes described above equal to the radius of the lateral spread plus one foot.
 - (2) The secondary containment system shall be capable of preventing the inflow of the highest ground water anticipated into the interstitial space during the life of the tank.
 - (3) If the interstitial space is backfilled, the backfill material shall not prevent the vertical movement of leakage from any part of the primary containment system.
 - (4) The secondary containment system with backfill material shall be designed and constructed to promote gravity drainage of an unauthorized release of hazardous substances from any part of the primary containment system to the monitoring location(s).
 - (5) Two or more primary containment systems shall not use the same secondary containment system if the primary containment systems store materials that in combination may cause a fire or explosion, or the production of a flammable, toxic, or poisonous gas, or the deterioration of any part of the primary or secondary containment system.
 - (6) Drainage of liquid from within a secondary containment system shall be controlled in a manner approved by the local agency to prevent hazardous materials from being discharged into the environment. The liquid shall be analyzed to determine the presence of any of the hazardous substance(s) stored in the primary containment system prior to initial removal, and monthly every 30 days thereafter, for any continuous discharge (removal) to determine the appropriate method for final disposal. The liquid shall be sampled and analyzed immediately upon any indication of an unauthorized release from the primary containment system.
 - (7) For primary containment systems installed completely beneath the ground surface, the original excavation for the secondary containment system shall have a water-tight cover which extends at least one foot beyond each boundary of the original excavation. This cover shall be asphalt, reinforced concrete, or equivalent material which is sloped to drainways leading away from the excavation. Access openings shall be constructed as water-tight as practical. Primary containment systems with integral secondary containment and open vaults are exempt from the requirements of this subdivision.

- (8) The actual location and orientation of the tanks and appurtenant piping systems shall be indicated on as-built drawings of the facility. Copies of all drawings, photographs, and plans shall be submitted to the local agency for approval.
- (d)(f) Owners or their agents shall certify that the installation of the tanks and piping meets the conditions in paragraph (1) through (4) below. The certification shall be made on the "UST Certification of Installation/ Modification" submittal element in the California Environmental Reporting System or a local reporting portal.
 - (1) The installer has met the requirements set forth in section sections 2715, subdivisions (g)(d) and (h)(e);
 - (2) The underground storage tank, any primary piping, and any secondary containment, was installed according to applicable voluntary consensus standards and any manufacturer's written installation instructions;
 - (3) All work listed in the manufacturer's installation checklist has been completed; and
 - (4) The installation has been inspected and approved by the local agency, or, if required by the local agency, inspected and certified by a registered professional engineer who has education and experience with underground storage tank system installations.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25284.1, 25290.1, 25290.2, 25291, 25299 and 25404, Health and Safety Code; and 40 CFR §§ 280.20, 280.31, 280.40, 280.41, 280.42, 280.43, 280.44 and 280.45

- § 2636. Design, Construction, Installation, Testing, and Monitoring Requirements for Piping.
- (a) Except as provided below, piping connected to tanks which were installed after July 1, 1987, shall have secondary containment that complies with the requirements of section 2631 for new underground storage tanks. This requirement does not apply to piping described as follows: any of the following:
 - (1) Vent or tank riser piping, provided the primary containment system is equipped with an overfill prevention equipment system meeting the requirements specified in sections 2635(b)(2)(c)(1)(B) or (C); or.
 - (2) Vapor recovery piping if designed so that it cannot contain liquid-phase product; or,
 - (3) Suction piping if the piping is designed, constructed, and installed as follows:
 - (A) The below-grade piping operates at less than atmospheric pressure (suction piping);
 - (B) The below-grade piping is sloped so that the contents of the pipe will drain back into the storage tank if the suction is released (gravity-flow piping);
 - (C) No valves or pumps are installed below grade in the suction line. Only one check valve is located directly below and as close as practical to the suction pump; and
 - (D) An inspection method is provided which readily demonstrates compliance with subparagraphs (A) through (C) above.

- (b) All corrodible underground piping, if in direct contact with backfill material, shall be protected against corrosion. Piping constructed of fiberglass-reinforced plastic, steel with cathodic protection, or steel isolated from direct contact with backfill, fulfills this corrosion protection requirement. Cathodic protection shall meet the requirements of section 2635(a)(2).
- (c) Underground primary piping shall meet all of the following requirements:
 - (1) Primary piping in contact with hazardous substances under normal operating conditions shall be installed inside a secondary containment system which may be a secondary pipe, vault, or a lined trench. All secondary containment systems shall be sloped so that all releases will flow to a collection sump located at the low point of the underground piping.
 - (2) Primary piping and secondary containment systems shall be installed in accordance with an industry code of practice developed in accordance with voluntary consensus standards. The owner or operator shall certify that the piping was installed in accordance with the above requirements of section 2635(d)(f). The certification shall be made on the "UST Certification of Installation/ Modification" submittal element in the California Environmental Reporting System or a local reporting portal.
- (d) Lined trench systems used as part of a secondary containment system shall be designed and constructed according to a code of practice or engineering standard approved by a state registered professional engineer. The following requirements shall also apply:
 - (1) All trench materials shall be compatible with the substance stored and evaluated by an independent testing organization for their compatibility or adequacy of the trench design, construction, and application.
 - (2) The trench shall be covered and capable of supporting any expected vehicular traffic.
- (e) All new primary piping and secondary containments systems shall be tested for tightness after installation in accordance with manufacturer's guidelines. Primary pressurized piping shall be tested for tightness hydrostatically at 150 percent of design operating pressure or pneumatically at 110 percent of design operating pressure. If the calculated test pressure for pressurized piping is less than 40-psi pounds per square inch, 40 psi-pounds per square inch shall be used as the test pressure. The pressure shall be maintained for a minimum of 30 minutes and all joints shall be soap tested. A failed test, as evidenced by the presence of bubbles, shall require appropriate repairs and retesting. If there are no manufacturer's guidelines, secondary containment systems shall be tested using an applicable method specified in an industry code or engineering standard. Suction piping and gravity flow piping which cannot be isolated from the tank shall be tested after installation in conjunction with an overfilled volumetric tank integrity test or other test method meeting the requirements of section 2643(f), if approved by the local agency.
- (f) Underground piping with secondary containment, including under-dispenser piping with secondary containment, shall be equipped and monitored with monitoring systems as follows:
 - (1) All secondary containment, including under-dispenser containment, and under-dispenser spill control or containment systems shall be equipped with a continuous monitoring

- system that either activates an audible and visual alarm or stops the flow of product at the dispenser when it detects a leak.
- (2) Automatic line leak detectors shall be installed on underground pressurized piping and shall be capable of detecting a 3-gallon three gallons per hour leak rate at 10 psi-pounds per square inch within 1 one hour with a probability of detection of at least 95 percent and a probability of false alarm no greater than 5-five percent, and shall restrict or shut off the flow of product through the piping when a leak is detected.

 [Editor's note: Version of (f)(3) in effect prior to 1-17-2008.]
- (3) Until November 9, 2004, other monitoring methods may be used in lieu of the
- requirement in paragraph (2) if it is demonstrated to the satisfaction of the local agency that the alternate method is as effective as the methods otherwise required by this section. Continuous monitoring systems as described in paragraph (1), which shut down the pump in addition to either activating the audible and visual alarm or stopping the flow of product at the dispenser, satisfy the automatic line leak detector requirement of paragraph (2).
- [Editor's note: Version of (f)(3) effective 1-17-2008.]
- (3) Until November 9, 2004, other monitoring methods may be used in lieu of the requirement in paragraph (2) if it is demonstrated to the satisfaction of the local agency that the alternate method is as effective as the methods otherwise required by this section. As an example, continuous monitoring systems as described in paragraph (1), which shut down the pump in addition to either activating the audible and visual alarm or stopping the flow of product at the dispenser, satisfy the automatic line leak detector requirement of paragraph (2), for purposes of this subdivision (f)(3).
- (4)(3) Monitoring shall be conducted on all underground pressurized piping with secondary containment at least once every 12 months annually at a pressure designated by the equipment manufacturer, provided that the method is capable of detecting a minimum release equivalent to 0.1 gallon gallons per hour defined at 150 percent of the normal operating pressure of the product piping system at the test pressure with at least a 95 percent probability of detection and not more than a 5-five percent probability of false alarm.
- (5)(4) Continuous monitoring systems as described in subdivision (f) paragraph (1) above, satisfy the annual tightness testing requirement of subdivision (f)(4) paragraph (3) above, if both of the following conditions are met:
 - (A) The monitoring system shuts down the pump or stops the flow of product at the dispenser when a leak is detected in the under-dispenser containment.
 - (B) The monitoring system for all product piping other than that contained in the underdispenser containment is fail safe, and shuts down the pump when a leak is detected.
- (6)(5) Emergency generator tanks systems with underground pressurized piping shall meet one of the following:
 - (A) For Underground pressurized piping connected to an emergency generator tank systems system installed before the effective date of this subdivision, may use a

continuous monitoring systems system as described in paragraph (1) above, which activate an audible and visual alarm in the event of a leak or a malfunction of the monitoring system satisfy the automatic line leak detector requirement of paragraph (2) above., provided that the The monitoring system is shall be checked at least daily by either remote electronic access or on-site visual inspections. A log of daily checks shall be available for local agency review upon request. By October 13, 2018, all underground pressurized piping connected to an emergency generator tank system shall meet section 2666(f).

- (B) Underground pressurized piping connected to an emergency generator tank system installed on or after the effective date of this subdivision, shall be equipped with an automatic line leak detector in accordance with paragraph (2) above. In lieu of restricting or shutting off the flow of product through the piping, the automatic line leak detector may activate an audible and visual alarm when a leak is detected.
- (g) Under-dispenser containment shall be designed, constructed, and installed in accordance with the following:
 - (1) Owners or <u>Operators operators</u> of <u>a UST an underground storage tank</u> system shall have the system fitted with under-dispenser containment, or an approved under-dispenser spill containment or control system. <u>according to the following schedule:</u>
 - (A) At the time of installation for systems installed after January 1, 2000.
 - (B) By July 1, 2001, for systems installed after July 1, 1987 that are located within 1,000 feet of a public drinking water well, as identified pursuant to the state GeoTracker.
 - (C) By December 31, 2003, for systems not subject to paragraph (A) or (B).
 - (2) Under-dispenser containment shall be designed, constructed, installed, and monitored in accordance with-sections section 2631, and subdivisions 2636(c)(2), 2636(e), and 2636(f) above.
 - (3) A manufacturer of an under-dispenser spill containment or control system may apply to the Division of Water Quality Underground Storage Tank Program Manager for approval of the system. Owners or operators shall not install an under-dispenser spill containment or control system that has not been approved.
 - (A) Applications for approval shall be submitted in writing and include the following:
 - (i) A description of the proposed system; and-
 - (ii) Clear and convincing evidence that the system will protect the soil and beneficial uses of the waters of the state from unauthorized releases.
 - (B) The Program Manager shall review the application to determine if the proposed system adequately protects the soil and beneficial uses of groundwater before determining whether to approve the proposed system.

(C) The Program Manager may modify or revoke a previously issued approval if it finds that, based on new evidence, the approved system does not adequately protect the soil and beneficial uses of groundwater from unauthorized releases.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25284.1, 25291, 25296.35, 25299 and 25404, Health and Safety Code; and 40 CFR §§ 280.10, 280.20, 280.31, 280.40, 280.41, 280.42, 280.43, 280.44 and 280.45.

- § 2637. Secondary Containment Testing.
- (a) Secondary containment components shall meet one of the following:
 - (1) Test for tightness at all of the following times: Secondary containment systems installed on or after January 1, 2001 shall be tested
 - (A)upon Upon installation of a secondary containment system, 6-six months after installation of a secondary containment system, and at least once every 36 months thereafter: Secondary containment systems installed prior to January 1, 2001 shall be tested by January 1, 2003, and at least every 36 months thereafter.
 - (B) On and after the effective date of this subparagraph all of the following times:
 - (i) Within 30 days of the date of the completion of a repair to a secondary containment component; and
 - (ii) Within 30 days of the date of discontinuing the use of a method of continuous monitoring that automatically monitors the integrity of both the primary and secondary containment such as components that are hydrostatically monitored or under constant vacuum or pressure.
 - (2) Use a method of continuous monitoring that automatically monitors the integrity of both the primary and secondary containment such as components that are hydrostatically monitored or under constant vacuum or pressure.
- (b) By December 31, 2002, the owner or operator of any secondary containment system systems that the owner or operator determines cannot be tested in accordance with this section shall replace the secondary containment system with a system that can be tested in accordance with this section. As an alternative, the owner or operator may submit a proposal and workplan for enhanced leak detection to the local agency in accordance with subdivisions 2644.1(a)(1), (2), (4), and (5) by July 1, 2002; complete the program of enhanced leak detection by December 31, 2002; and replace the secondary containment system with a system that can be tested in accordance with this section by July 1, 2005. The local agency shall review the proposed program of enhanced leak detection within 45 days of submittal or re-submittal.
- (c) Periodic The testing of secondary containment systems shall be conducted using a test procedure that demonstrates that the system performs at least as well as it did upon installation. For example, if the secondary containment system was tested upon installation by using a test method that applied a pressure of 5 psi five pounds per square inch, then the periodic test must be conducted using a method that tests the system at an equivalent

pressure. These tests shall be performed in accordance with manufacturer's guidelines or standards. If there are no manufacturer's guidelines or standards, secondary containment systems must be tested using an applicable method specified in an industry code or engineering standard. If there are no applicable manufacturers manufacturer's guidelines, industry codes, or engineering standards, a test method approved by a state registered professional engineer shall be used.

- (d) Secondary containment testing tests shall be performed by either a service technician or a licensed tank tester, both of which must meet meeting the requirements of section 2715(f), subdivision (i).
- (e) On and after the effective date of this subdivision, the results of the secondary containment test shall be recorded on the "Secondary Containment Testing Report Form" located in Appendix VII.
- (e)(f) On and after the effective date of this subdivision, underground Underground storage tank owners and operators shall submit a copy of the test report "Secondary Containment Testing Report Form" to the local agency within 30 days of the completion of the secondary containment test.
- (f)(g) Owners and operators of underground storage tanks must notify the local agency at least 48 hours prior to conducting the <u>secondary containment</u> test, <u>unless this notification</u> requirement is waived by the local agency.
- (g) Secondary containment systems where the continuous monitoring automatically monitors both primary and secondary containment, such as systems that are hydrostatically monitored or under constant vacuum, are exempt from periodic secondary containment testing.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25284.1, 25291 and 25292, Health and Safety Code; and 40 CFR §§ 280.33, 280.35 and 280.41.

§ 2637.1. Spill Container Testing.

- (a) Spill containers shall be tested for tightness at all of the following times:
 - (1) Upon the completion of an installation and every 12 months thereafter; and
 - (2) Within 30 days of the date of the completion of a repair.
- (b) The spill container tests shall be conducted using a testing procedure that demonstrates that the spill container is capable of containing the stored substance until it is detected and cleaned up. These tests shall be performed in accordance with manufacturer's guidelines or standards. If there are no manufacturer's guidelines or standards, the spill container shall be tested using an applicable method specified in an industry code or engineering standard. If there are no applicable manufacturer's guidelines, industry codes, or engineering standards, a test method approved by a state registered professional engineer shall be used.

- (c) The spill container tests shall be performed by a service technician meeting the requirements of section 2715(f).
- (d) The results of the spill container test shall be recorded on the "Spill Container Testing Report Form" located in Appendix VIII.
- (e) Owners or operators shall submit a copy of the "Spill Container Testing Report Form" to the local agency within 30 days of the completion of the spill container test.
- (f) Owners or operators shall notify the local agency at least 48 hours prior to conducting the spill container test.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code.

Reference: Sections 25281, 25284.1, 25284.2, 25289, and 25292.1, Health and Safety Code; and 40 CFR §§ 280.33 and 280.35.

- § 2637.2. Overfill Prevention Equipment Inspection.
- (a) Owners or operators of underground storage tanks that do not meet section 2635(c)(2) shall meet one the following:
 - (1) Underground storage tanks installed before the effective date of this subdivision shall have the overfill prevention equipment inspected at all of the following times:
 - (A) Once by October 13, 2018 and every 36 months thereafter; and
 - (B) Within 30 days of the date of the completion of a repair.
 - (2) Underground storage tanks installed on or after the effective date of this subdivision shall have the overfill prevention equipment inspected at all of the following times:
 - (A) Upon the completion of an installation and every 36 months thereafter; and
 - (B) Within 30 days of the date of the completion of a repair.
- (b) Overfill prevention equipment inspections shall be conducted using an inspection procedure that demonstrates that the overfill prevention equipment is set to activate at the correct level specified in section 2635(c)(1) and will activate when regulated stored substance reaches that level. These inspections shall be performed in accordance with manufacturer's guidelines or standards. If there are no manufacturer's guidelines or standards, the overfill prevention equipment shall be inspected using an applicable method specified in an industry code or engineering standard. If there are no applicable manufacturer's guidelines, industry codes, or engineering standards, an inspection method approved by a state registered professional engineer shall be used.
- (c) Overfill prevention equipment inspections shall be performed by a service technician meeting the requirements of section 2715(f).
- (d) The results of the overfill prevention equipment inspection shall be recorded on the "Overfill Prevention Equipment Inspection Report Form" located in Appendix IX.

- (e) Owners or operators shall submit a copy of the "Overfill Prevention Equipment Inspection Report Form" to the local agency within 30 days of the completion of the overfill prevention equipment inspection.
- (f) Owners or operators shall notify the local agency at least 48 hours prior to conducting the inspection.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code.

Reference: Sections 25281, 25284.1, 25289 and 25292.1, Health and Safety Code; and 40 CFR §§ 280.20, 280.33 and 280.35.

- § 2638. Annual Certification of Monitoring Equipment.
- (a) All monitoring equipment used to satisfy the requirements of this article shall be installed, calibrated, operated and maintained in accordance with manufacturer's instructions, and certified every 12 months for operability, proper operating condition, and proper calibration. Written records shall be maintained as required in section 2712.
- (b) Persons performing installation, repair, maintenance, calibration, or annual certification of monitoring equipment shall meet the requirements set forth in section 2715(f), subdivision(i).
- (c) Annual The monitoring equipment certification shall be made on a "Monitoring System Certification Form" form (see located in Appendix VI).
- (d) <u>UST owners and Owners or</u> operators shall submit a completed <u>"Monitoring System Certification Form"</u> form to the local agency within 30 days after completion of the inspection.
- (e) The UST owner or operator shall notify the local agency at least 48 hours prior to conducting the installation, repair, replacement, calibration, or certification of monitoring equipment unless the notification requirement is waived by the local agency.
- (f) A person conducting UST underground storage tank monitoring equipment certification shall affix a tag/sticker on each monitoring equipment component that is being certified, repaired, or replaced. The tag/sticker shall be placed in a readily visible location and shall include the date the UST underground storage tank component was certified, repaired, or replaced, and the contractor's or tank tester's license number.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25281, 25284.1, 25291 and 25292, Health and Safety Code; and 40 CFR §§ 280.36, 280.40 and 280.41.

Article 4. Existing Underground Storage Tank Monitoring Requirements

- § 2640. General Applicability of Article.
- (a) The requirements of this article apply to owners or operators of existing underground storage tanks.

- (b) The requirements of this article apply during the following periods:
 - (1) Any operating period, including any period during which the tank is empty as a result of withdrawal of all stored substances before input of additional hazardous substances;
 - (2) Any period during which hazardous substances are stored in the tank, and no filling or withdrawal is conducted; and
 - (3) Any period between cessation of the storage of hazardous substances and the actual completion of closure, pursuant to Article 7, unless otherwise specified by local agency, pursuant to section 2671(b), during a temporary closure period.
- (c) This article shall not apply to underground storage tanks that are designed, constructed, installed, and monitored in accordance with Article 3.
- (d) Owners or operators of tanks monitored pursuant to section 25292(b)(5)(A) of the Health and Safety Code shall comply with the requirements of section 2645. Tank systems having a capacity of more than 2,000 gallons shall not be monitored pursuant to section 25292(b)(5)(A) of the Health and Safety Code. On and after the effective date of this subdivision, tanks shall not be monitored pursuant to section 25292(b)(5)(A) of the Health and Safety Code.
- (e) An owner or operator of an underground storage tank system with a single-walled component that is located within 1,000 feet of a public drinking water well, as notified by the board according to its Geographic Information System mapping database, shall implement a program of enhanced leak detection or monitoring for that tank system in accordance with section 2644.1. Additionally, the following conditions for enhanced leak detection shall apply:
 - (1) For the purpose of section 2644.1, vent or tank riser piping, vapor recovery piping, and suction piping that meet the definitions of section 2636(a)(1), (2), or (3), are not considered single-walled components.
 - (2) Owners or operators notified by the board who believe that their facility is not subject to this requirement may request reconsideration by the Division of Clean Water Programs Underground Storage Tank Program Manager. The request shall be in writing and received by the Underground Storage Tank Program Manager within 60 calendar days of the date the notification was mailed. The Program Manager shall make a decision on the request, and notify the applicable local agency of this decision, within 90 calendar days of receipt of the request.
 - (3) The request for reconsideration must include the name and address of the subject facility, the name and address of the owner or operator submitting the request, and the reason(s) why the requester believes the board notification was in error. If the request is based on evidence that the UST_underground storage tank system in question is greater than 1,000 feet from a public drinking water well, the request shall include a demonstration that the center of the wellhead is more than 1,000 ft feet from the closest component of the UST_underground storage tank system. If the request is based on evidence that the subject UST_underground storage tank system does not

have a single-walled component, the request shall include supporting documentation. A copy of the request shall be concurrently submitted to the local agency.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25292 and 25292.4, Health and Safety Code; and 40 CFR 280.40, 280.41, 280.42 and 280.43(b).

§ 2640.1. Method of Demonstrating Compatibility.

(a) On and after the effective date of this section, 30 days before changing to a hazardous substance motor vehicle fuel containing a concentration greater than 10 percent ethanol or five percent biodiesel, owners or operators shall demonstrate compatibility of the all primary containment with the substance to be stored, including any special accessories, fittings, coatings, or linings, by submitting to the local agency a written approval from an independent testing organization in accordance with industry codes, voluntary consensus standards, or engineering standards.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code.

Reference: Sections 25281, 25286, and 25299, Health and Safety Code; and 40 CFR §§ 280.11 and 280.32.

- § 2643. Non-Visual Monitoring/Quantitative Release Detection Methods.
- (a) Non-visual quantitative release detection methods shall comply with the requirements of this section. Subdivision (b) contains monitoring requirements for underground storage tanks; subdivision (c) for pressurized piping; subdivision (d) for suction piping; and subdivision (e) for gravity-flow piping. Examples of release detection methods that may be used to meet the requirements of this section are in Appendix III.
- (b) Quantitative release detection method methods used to monitor underground storage tanks shall be conducted according to one of the methods listed in paragraphs (1) through (5)(4) below. These quantitative monitoring methods shall meet the requirements of section 2643(f) and shall be capable of detecting release rates specified in this section with at least a 95 percent probability of detection and not more than a 5-five percent probability of false alarm.
 - (1) Automatic tank gauge -

The automatic tank gauge shall test the tank at least once-per month every 30 days after product delivery or when the tank is filled to within 10 percent of the highest operating level during the previous—month 30 days and shall be capable of detecting a release of 0.2-gallon_gallons per hour. The automatic tank gauge shall generate a hard copy of all data reported including time and date, tank identification, fuel depth, water depth, temperature, liquid volume, and the duration of the test. Automatic tank gauge systems installed on or after January 1, 1995, shall also generate a hard copy of the calculated leak rate and leak threshold.

(2) Automatic tank gauge plus manual inventory reconciliation –

The automatic tank gauge shall test the tank at least once per month when the product level in the tank is at least three feet and shall be capable of detecting a release of 0.1

gallon per hour. The automatic tank gauge shall generate hard copies of data as specified in subdivision (b)(1) above. In addition, manual inventory reconciliation shall be conducted in accordance with section 2646 (except for subdivision [b]).

(3)(2) Statistical inventory reconciliation plus tank integrity testing -

Statistical inventory reconciliation shall be conducted at least once per month every 30 days in accordance with section 2646.1 and shall be capable of detecting a release of 0.2 gallon-gallons per hour. In addition, a tank integrity test shall be conducted at least once every two years 24 months in accordance with section 2643.1. On and after the effective date of this paragraph, statistical inventory reconciliation shall report a quantitative leak rate using a threshold value that does not exceed one-half the minimum detectible leak rate at least once every 30 days.

(3) Continuous in-tank leak detection -

On and after the effective date of this paragraph, continuous in-tank leak detection shall be capable of detecting an unauthorized release of 0.2 gallons per hour. Continuous in-tank leak detection shall operate on an uninterrupted basis or operating within a process that allows the system to gather incremental measurements to determine the leak status of the tank at least once every 30 days.

(4) Manual inventory reconciliation plus tank integrity testing -

Manual inventory reconciliation shall be conducted at least once per month in accordance with section 2646 and shall be capable of detecting a release of 1.0 gallon per hour. In addition, a tank integrity test shall be conducted once per year in accordance with section 2643.1.

(5)(4) Other test methods -

Other equivalent test methods may be used following review by the State Water Board for compliance with this subdivision and subdivision (f) below.

- (c) Piping that conveys hazardous substances under pressure shall be monitored in accordance with paragraph (c) (1), and either paragraph (2) or (3) below.
 - (1) Monitoring shall be conducted at least hourly at any pressure. The monitoring method shall be capable of detecting a release equivalent to 3.0 gallons per hour defined at 10 pounds per square inch pressure within one hour of its occurrence with at least a 95 percent probability of detection and not more than a 5-five percent probability of false alarm. The leak detection method shall restrict or shut off the flow of product through the piping or trigger a visual and audible alarm if an unauthorized release occurs. If the use of piping is intermittent, leak detection monitoring is required only at the beginning or end of the period during which the piping is under pressure, but in any event there shall not be more than one hour between the time the equipment initiates the test and detection of an unauthorized release; and
 - (2) Monitoring shall be conducted at least-monthly once every 30 days at any pressure. The monitoring method shall be capable of detecting a minimum release equivalent to 0.2 gallon gallons per hour defined at normal operating pressure; or,

- (3) Monitoring shall be conducted at least annually (once per calendar year) every 12 months at a pressure designated by the equipment manufacturer. The monitoring method shall be capable of detecting a minimum release equivalent to 0.1-gallon gallons per hour defined at 150 percent (one and one half times) the normal operating pressure.
- (d) Piping that conveys hazardous substances under less than atmospheric pressure (suction piping) shall be tested at least once every three years 36 months at a pressure designated by the test equipment manufacturer. The test method shall by capable of detecting a minimum release equivalent to 0.1 gallon gallons per hour defined at a minimum of 40 psi pounds per square inch with at least a 95 percent probability of detection and not more than a five percent probability of false alarm. If the piping cannot be isolated from the tank for testing purposes, the piping shall be tested using an overfilled volumetric tank integrity test or other test method meeting the requirements of section 2643(f) if approved by the local agency. Daily monitoring shall be performed as described in Appendix II except for emergency generator systems, which may be monitored less often, but at least monthly once every 30 days. Written records describing the results of the monitoring shall be maintained in accordance with section 2712(b).
- (e) Piping that conveys hazardous substances by the force of gravity (excluding vertical drops) shall be monitored at least once every two years 24 months at a pressure designated by the test equipment manufacturer. The method shall be capable of detecting a minimum release equivalent to 0.1-gallon gallons per hour defined at 40-psi pounds per square inch. If the piping cannot be isolated from the tank for testing purposes, the piping shall be tested using an overfilled volumetric tank integrity test or other test method meeting the requirements of section 2643(f) if approved by the local agency.
- (f) Each quantitative release detection method, with the exception of manual inventory reconciliation and manual tank gauging, shall be certified to comply with the performance standard(s) specified in this section and shall be subject to limitations specified in the certification. This certification shall be obtained by the equipment manufacturer following one of the evaluation procedures in paragraphs (1) through (3) below:
 - (1) An independent third party testing laboratory shall evaluate and approve the method using the appropriate "EPA Standard Test Procedure" for leak detection equipment in Appendix IV; or,
 - (2) An independent third party testing laboratory shall evaluate and approve the method using a voluntary consensus standard that is intended for the method being evaluated; or, or
 - (3) An independent third party testing laboratory shall evaluate and approve the method using a procedure deemed equivalent to an EPA procedure. Any resultant certification shall include a statement by the association or laboratory that the conditions under which the test was conducted were at least as rigorous as those used in the EPA standard test procedure. This certification shall include statements that:
 - (A) The method was tested under various conditions that simulate interferences likely to be encountered in actual field conditions (no fewer nor less rigorous than the environmental conditions used in the corresponding EPA test procedure);

- (B) Each condition under which the method was tested was varied over a range expected to be encountered in 75 percent of the normal test cases;
- (C) All portions of the equipment or method evaluated received the same evaluation;
- (D) The amount of data collected and the statistical analysis are at least as extensive and rigorous as the data collected and statistical analysis used in the corresponding EPA test procedure and are sufficient to draw reasonable conclusions about the equipment or method being evaluated;
- (E) The full-sized version of the leak detection equipment was physically tested; and
- (F) The experimental conditions under which the evaluation was performed and the conditions under which the method was recommended for use have been fully disclosed and that the evaluation was not based solely on theory or calculation: est.
- (4) The evaluation results referred to paragraphs (2) and (3) shall contain the same information and shall be reported following the same general format as the EPA standard results sheet as any corresponding EPA test procedure.
- (g) The underground storage tank owner or operator shall notify the local agency 48 hours before conducting a tank or piping integrity test—unless the notification requirement is waived by the local agency. Within 30 calendar days of completion of an underground storage tank or piping integrity test, the tank owner or operator shall submit a report to the local agency through the California Environmental Reporting System or a local reporting portal. The results of any underground storage tank tests, other than those required by this article, performed on the underground storage tank or piping to detect an unauthorized release shall be submitted by the owner or operator to the local agency through the California Environmental Reporting System or a local reporting portal within 30 calendar days of completion of the test. The report shall be presented in written and/or tabular format, as appropriate, and shall be at a level of detail appropriate for the release detection method used.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25292 and 25404, Health and Safety Code; and 40 CFR §§ 280.40, 280.41, 280.42, 280.43, 280.44 and 280.45.

- § 2644. Non-Visual Monitoring/Qualitative Release Detection Methods.
- (a) An owner or operator who is required, pursuant to section 2641, to establish a non-visual monitoring program, shall comply with the requirements of this section if a qualitative release detection method is used. Each qualitative release detection method, including interstitial monitors, shall have an independent third-party third party evaluation to certify accuracy and response time of the detection method in accordance with procedures in Appendix IV. Examples of qualitative release detection methods that may be used are in Appendix III.
- (b) If vadose zone monitoring is used as a release detection method, it shall be conducted in accordance with section 2647.

- (c) If ground water monitoring is used as a release detection method, it shall be conducted in accordance with section 2648.
- (d) A qualitative release detection method which includes the installation of monitoring wells or drilling other borings shall comply with installation, construction, and sampling and analysis procedures in section 2649.
- (e) Underground pressurized piping that is monitored at least-monthly-once every 30 days by a non-visual qualitative release detection method satisfies the annual tightness test requirement of section 25292(e) of the Health and Safety Code.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Section 25292, Health and Safety Code; and 40 CFR 280.41, 280.43 and 280.44.

§ 2644.1. Enhanced Leak Detection.

- (a) An owner or operator who is required, pursuant to section 2640(e), to implement a program of enhanced leak detection or monitoring shall comply with the requirements of this section as follows all of the following:
 - (1) Enhanced leak detection means a test method that ascertains the integrity of an underground tank system by introduction, and external detection, of a substance that is not a component of the fuel formulation that is stored in the tank system.
 - (2) The enhanced leak detection test method shall be third party certified, in accordance with section 2643(f), for the capability of detecting both vapor and liquid phase releases from the underground storage tank system. The enhanced leak detection test method shall be capable of detecting a leak rate of at least 0.005-gph gallons per hour, with a probability of detection of at least 95% percent and a probability of false alarm no greater than 5% five percent.
 - (3) Owners and operators subject to the requirements of this section shall have a program of enhanced leak detection reviewed and approved by the local agency within-6_six months following notification by the board. The enhanced leak detection shall be implemented no later than 18 months following receipt of notification from the board and repeated every 36 months thereafter.
 - (4) Owners and operators of underground storage tanks subject to the requirements of this section must notify the local agency at least 48 hours prior to conducting the enhanced leak detection test unless this notification requirement is waived by the local agency.
 - (5) Owners and operators of underground storage tanks subject to the requirements of this section shall submit a copy of the enhanced leak detection test report to the board and the local agency within 60 days of completion of the test.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25283, 25291, 25292, 25292.4 and 25404, Health and Safety Code; and 40 CFR §§ 280.40 and 280.41.

- § 2645. Manual Tank Gauging and Testing for Small Tanks.
- (a) Manual tank gauging may be used as part of a non-visual monitoring program for existing underground storage tanks which have a total system capacity of 2,000 gallons or less and which can be taken out of service for at least 48 or 72 continuous hours each week as indicated in Table 4.1.
- (b) Manual tank gauging shall be conducted weekly in accordance with subsection (d). Piping testing shall be conducted in accordance with section 2643(c), (d), or (e). Tanks with a capacity of 1,001 to and including 2,000 gallons shall also receive a tank integrity test each year. Tanks with a capacity of 551 to and including 1,000 gallons shall also have an annual tank integrity test unless the gauging period is 60 hours or more. Requirements of section 2643(b) do not apply to tanks which are monitored in accordance with this section.
- (c) Manual tank gauging shall not be used on tanks with secondary containment and shall not be used as a leak detection method after December 22, 1998, for underground storage tanks with a capacity greater than 1,000 gallons.
- (d) Owners or operators of existing underground storage tanks who use manual tank gauging as part of a non-visual monitoring program shall conduct weekly gauging according to the following specifications:
 - (1) Tank liquid level measurements shall be taken at the beginning and end of a gauging period which shall be at least 36 or 60 continuous hours as set forth in Table 4.1 during which no liquid is added to or removed from the tank. The underground storage tank shall be secured to prevent inputs or withdrawals during the gauging period. No product shall be added to the tank within the 12-hour period preceeding the gauging period. The liquid level measurements shall be based on an average of two consecutive stick readings at both the beginning and end of the gauging period; and,
 - (2) The equipment used shall be capable of measuring the level of the product over the full range of the tank's height to the nearest one-eighth of an inch; and,
 - (3) If the variation between beginning and ending measurements exceeds the weekly or monthly standards set forth in Table 4.1, a second 36-hour or 60-hour test shall begin immediately and all measurements and calculations checked for possible errors. If the second test confirms a variation which exceeds the weekly or monthly standards in Table 4.1, a tank integrity test shall be conducted within 72-hours of completion of the second test. The local agency may extend this 72-hour period up to 30 calendar days, if all contents of the underground storage tank are safely and properly removed within the 72-hour period.
- (e) If the results of a tank integrity test confirm an unauthorized release, the owner or operator shall comply with the release reporting requirements of Article 5 and shall replace, repair, upgrade, or close the underground storage tank in accordance with the applicable provisions of this chapter.

Table 4.1

Manual Tank Gauging Measurement Standards

Tark Cina	Weekly Standard	Monthly Standard	Testing Period	Total Time Out of Service
Tank Size (in Gallons)	One Test (Gallons)	Average of 4 tests (Gallons)	[FNa1] (hours)	(hours)
550 or less	10	5	36	48
551 to and including 1,000	12	6	60	72
[FNaa1] 551 to and including 1,000	13	7	36	48
[FNaa1] 1,001 to and including 2,000	26	13	60	72

[FNa1]

The tank must be taken out of service at least 12 hours before the test (gauging) period begins.

[FNaa1]

An annual tank integrity test is required.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25292 and 25293, Health and Safety Code; 40 CFR 280.43.

§ 2646. Manual Inventory Reconciliation.

- (a) Manual inventory reconciliation may be used as part of a non-visual monitoring program set forth in section 2643(b)(4) for existing underground storage tanks which contain motor vehicle fuels.
- (b) After January 1, 1993, manual inventory reconciliation shall not be used to comply with the requirements of this article where the existing ground water level or the highest anticipated ground water level is less than 20 feet below the bottom of the tank. The ground water level shall be determined in accordance with the requirements of section 2649(c). After December 22, 1998, manual inventory reconciliation shall not be used to satisfy underground storage tank monitoring requirements.
- (c) Each underground storage tank shall be individually monitored using a method that incorporates the following procedures:
 - (1) Separate daily measurements shall be taken and recorded for both the motor vehicle fuel and any water layer. For the purpose of this section, "daily" means at least every day that motor vehicle fuel is added to or withdrawn from the tank, but no less than five days per week. The number of days may be reduced by the number of public holidays that occur during the week if there is no input to or withdrawal from the tank on the holiday. Local agencies may reduce the frequency of monitoring to not less than once every

three days at facilities that are not staffed on a regular basis provided that the monitoring is performed every day the facility is staffed. Measurements shall be:

- (A) taken when no substance is being added to or withdrawn from the tank;
- (B) performed by the owner, operator, or other designated persons who have had appropriate training;
- (C) based on the average of two readings if dipstick or tape measurements are used.
- (D) determined by equipment capable of measuring the level of the product over the full range of the tank's height to the nearest one-eighth of an inch. If a dipstick is used to determine the product level, a substance capable of rendering the readings legible shall be applied to the dipstick before use, if necessary to obtain accurate readings;
- (E) determined by equipment capable of measuring, to the nearest one-eighth of an inch, water present in the bottom of the tank. If a dipstick is used, water-finding paste shall be applied to the dipstick. If the tank is not level, and the measurements are taken manually, the measurements shall be taken at the lowest end of the tank.
- (F) measured at the center of the longitudinal axis of the tank if access is available or measured at the lowest end of the tank with a calibration measurement at both ends, if possible, to determine if any tank tilt exists, and, if so, its magnitude; and
- (G) converted to volume measurements based on a calibration chart for the tank. This chart shall, where feasible, take into account the actual tilt of the tank.
- (2) Daily readings shall be taken for input and withdrawals. The amount of product inputs indicated by delivery receipt shall be compared with measurement of the tank inventory volume before and after delivery. Product input shall be determined by a method that introduces the least amount of error in the monthly inventory reconciliation calculations. Underground storage tanks that are connected by a manifold may require time for the level to stabilize before a measurement is taken. Product shall be delivered to the tank through a drop tube that extends to within 12 inches of the bottom of the tank.
- (d) The daily variation shall be the difference between the physically measured inventory in storage and the calculated inventory in storage. The physically measured inventory shall be measured daily by taking a liquid level measurement and converting it to gallons using a calibration chart. The calculated inventory shall be determined daily by adding the amount of product added to the tank and subtracting the withdrawals from the inventory measured on the previous day. These variations shall be algebraically summed for a period of one month. If the absolute value of the monthly variations exceeds a variation of 1.0 percent of the total monthly input to or withdrawals from the tank plus 130 gallons, the variation shall be investigated in accordance with subsection (e).
- (e) If the monthly manual inventory reconciliation exceeds the allowable variation, the owner or operator shall:
 - (1) within 24 hours of completing inventory reconciliation which exceeds the allowable variation, notify the local agency of the suspected unauthorized release;

- (2) within 24 hours of discovering a variation which exceeds the allowable variation, review the inventory records for the preceding 30 days to determine if an error in calculations was made. If investigation shows that an error in calculations was made and that variations have not been exceeded, no further steps need to be taken;
- (3) within 24 hours of discovering a variation which exceeds an allowable variation, have all readily accessible facilities carefully inspected for leakage by appropriately trained persons. If an unauthorized release is detected, the owner or operator shall comply with the requirements of Article 5. If no unauthorized release is detected, the owner or operator shall continue with the following steps:
- (4) have dispenser meters, which determine the amount of product withdrawn from the tank, checked and recalibration, if necessary, within 24 hours of completing the procedure required in subdivision (3) above. Dispenser meters shall comply with California Code of Regulations, Title 4, Division 9, "Division of Measurement Standards, Department of Food and Agriculture." Meters shall be inspected by the County Department of Weights and Measures or a device repairman as defined in the California Business and Professions Code, Division 5, Chapter 5.5. This subdivision applies to all meters used for determining withdrawals, including those at non-retail facilities;
- (5) continue to conduct inventory reconciliation according to the requirements of this section. If a second 30-day period of data confirms the initial results, the owner or operator shall comply with the requirements of Article 5; and
- (6) conduct additional tests or investigations as required by the local agency and, if applicable, replace, repair, upgrade, or close the tank in accordance with the applicable provisions of this chapter.
- (f) Whenever any of the steps in subsection (e) of this section are performed, the results shall be documented in the monitoring record required under section 2712. If completion of any of the steps in subsection (e) indicates that the apparent excessive variation is not due to a release or tank failure, the remainder of the steps need not be completed.
- (g) On an annual basis, the owner or operator shall submit a written statement to the local agency verifying under penalty of perjury that all monthly reports were summarized and that all data are within allowable variations. If data exceeded allowable variations, the owner or operator shall provide the local agency with a list of times, dates, and corresponding variations which exceeded allowable variations, this information shall be signed by the owner or operator under penalty of perjury.
- (h) The transfer of hazardous substances into and out of the underground storage tank may continue while the steps in subsection (e) are being implemented, provided the steps are completed within the specified periods. Daily inventory readings and monthly reconciliation shall continue while the steps are being implemented.
- (i) Dispenser meters which determines the amount of product withdrawn from the tank shall comply with the provisions of Title 4, Division 9, "Division of Measurement Standards; Department of Agriculture." Meters shall be inspected and recalibrated by the County

Department of Weights and Measures or a device repairman as defined in Division 5, Chapter 5.5 of the Business and Professions Code.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25291 and 25292, Health and Safety Code; 40 CFR 280.43.

- § 2646.1. Statistical Inventory Reconciliation.
- (a) When approved by the local agency, statistical inventory reconciliation may be used as part of a non-visual monitoring program, set forth in section 2643(b)(3)(2), for existing underground storage tanks which contain motor vehicle fuel.
- (b) Each underground storage tank shall be individually monitored using a method that incorporate incorporates the following procedures: prescribed by section 2646(c).
 - (1) Separate daily measurements shall be taken and recorded for both the motor vehicle fuel and any water layer. For the purpose of this section, "daily" means at least every day that motor vehicle fuel is added to or withdrawn from the tank, but no less than five days per week. The number of days may be reduced by the number of public holidays that occur during the week if there is no input to or withdrawal from the tank on the holiday. Local agencies may reduce the frequency of monitoring to not less than once every three days at facilities that are not staffed on a regular basis provided that the monitoring is performed every day the facility is staffed. The number of days may be reduced only if consistent with the independent third party certification required by section 2643(f). Measurements shall be:
 - (A) Taken when no substance is being added to or withdrawn from the tank;
 - (B) Performed by the owner, operator, or other designated persons who have had appropriate training;
 - (C) Based on the average of two readings if dipstick or tape measurements are used;
 - (D) Determined by equipment capable of measuring the level of the product over the full range of the tank's height to the nearest one-eighth of an inch. If a dipstick is used to determine the product level, a substance capable of rendering the readings legible shall be applied to the dipstick before use, if necessary to obtain accurate readings;
 - (E) Determined by equipment capable of measuring, to the nearest one-eighth of an inch, water present in the bottom of the tank. If a dipstick is used, water-finding paste shall be applied to the dipstick. If the tank is not level, and the measurements are taken manually, the measurements shall be taken at the lowest end of the tank;
 - (F) Measured at the center of the longitudinal axis of the tank if access is available or measured at the lowest end of the tank with a calibration measurement at both ends, if possible, to determine if any tank tilt exists, and, if so, its magnitude; and
 - (G) Converted to volume measurements based on a calibration chart for the tank. This chart shall, where feasible, take into account the actual tilt of the tank.

- (2) Daily readings shall be taken for input and withdrawals. The amount of product inputs indicated by delivery receipt shall be compared with measurement of the tank inventory volume before and after delivery. Product input shall be determined by a method that introduces the least amount of error in the 30 day inventory reconciliation calculations. Underground storage tanks that are connected by a manifold may require time for the level to stabilize before a measurement is taken. Product shall be delivered to the tank through a drop tube that extends to within 12 inches of the bottom of the tank.
- (c) On a monthly basis, the The tank owner or operator must provide the minimum number of data records to the statistical inventory reconciliation provider as required by that provider. The previous month's Previously submitted data may be included with the current month's data to total the minimum number of records necessary to complete the statistical inventory reconciliation. Data submissions to the statistical inventory reconciliation provider and subsequent receipt of reports from the provider shall be completed monthly within 20 calendar days of the end of the data collection period at least once every 30 days. To give the owner or operator an opportunity to become proficient in the use of statistical inventory reconciliation, the requirements in subsection subdivision (d) below do not apply if any of the first three reports are inconclusive. The owner or operator shall inform the local agency of the results of the first three reports, regardless of the results.
- (d) If the results of a report are inconclusive or indicate a possible unauthorized release, the owner or operator shall, within 24 hours of receipt of the report:
 - (1) notify Notify the local agency of the possible unauthorized release, and within 10 calendar days, submit a copy of the report to the local agency. The local agency may allow up to 10 additional calendar days in which to submit the report;
 - (2) <u>inspect_Inspect_the inventory records</u> for errors to determine if data were collected properly; <u>and</u>
 - (3) have Inspect all accessible portions of the underground storage tank system inspected for leakage by appropriately trained persons.
 - (A) If an unauthorized release is detected, the owner or operator shall comply with the requirements of Article 5.
 - (B) If no unauthorized release is detected, the owner or operator shall continue with the steps in subdivision (4) below:
 - (4) have dispenser meters, which determine the amount of product withdrawn from the tank, checked and recalibrated if necessary within 48 hours of receipt of the report. Meters shall be recalibrated by the County Department of Weights and Measures or a device repair person as defined in the California Business and Professions Code, Division 5, Chapter 5.5. This subdivision subparagraph applies to all meters used for determining withdrawals, including those at non-retail facilities. Dispenser meters shall comply with California Code of Regulations, Title 4, Division 9, "Division of Measurement Standards, Department of Food and Agriculture."
- (e) Daily readings shall continue to be taken and recorded during the investigation specified in subsection subdivision (d) above. If the second statistical inventory reconciliation report

- does not indicate a tight system, the owner or operator shall comply with the release reporting requirements of Article 5.
- (f) The owner or operator who reports a suspected release in accordance with subsection subdivision (e) above, shall conduct additional tests or investigations as required by the local agency and, if necessary, replace, repair, upgrade, or close the tank in accordance with the applicable provisions of this chapter.
- (g) A tank integrity test meeting the requirements of section 2643.1 is also required <u>at least once</u> every—two years_24 months when statistical inventory reconciliation is used. The first tank integrity test shall be conducted within the first—year_12 months of implementation of a monitoring program which includes statistical inventory reconciliation.
- (h) The owner or operation shall conduct a piping tightness test and, if necessary, a tank integrity test within 15 calendar days of receipt of two successive reports which are inconclusive or which indicate a possible unauthorized release. The local agency may also require a piping tightness test and, if necessary, a tank integrity test if frequent inconclusive results are reported.
- (i) Piping connected to a tank which is monitored using statistical inventory reconciliation shall be tested in accordance with section 2643(c), (d), or (e).
- (j) On an annual basis At least once every 12 months, the owner or operator shall submit a written statement to the local agency which indicates the results from the statistical inventory reconciliation reports for the previous 12 months.
- (k) Dispenser meters which determine the amount of product withdrawn from the tank shall comply with the provisions of Title 4, Division 9, "Division of Measurement Standards, Department of Agriculture." Meters shall be inspected and recalibrated by the County Department of Weights and Measures or a device repair person as defined in Division 5, Chapter 5.5 of the Business and Professions Code.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25291 and 25292, Health and Safety Code; and 40 CFR §§ 280.41 and 280.43.

§ 2647. Vadose Zone Monitoring Requirements.

- (a) Owners or operators of existing underground storage tanks who use vadose zone monitoring as part of a non-visual monitoring program shall comply with the requirements of this section. Vapor monitoring, soil-pore liquid monitoring, or a combination of these or other vadose zone monitoring methods may be used.
- (b) Vadose zone monitoring shall not be used as the sole release detection method of non-visual monitoring where the monitoring well cannot be located within the backfill surrounding the tank, or where the existing ground water level or the highest anticipated ground water level, including intermittent perched ground water, is less than ten-10 feet below the bottom of the tank. Ground water levels shall be determined in accordance with section 2649(c).

- (c) Vadose zone vapor monitoring shall be conducted continuously. Other vadose zone monitoring shall be conducted at least weekly. All manual sampling in the vadose zone shall be conducted in accordance with section 2649(g).
- (d) The number, location, and depths of vadose zone monitoring points shall be selected to achieve the objective specified in section 2641(a). Where possible, monitoring points shall be located within the excavation backfill surrounding the underground storage tank. The owner or operator shall determine the exact location of the underground storage tank and associated piping before attempting to install monitoring wells and/or devices pursuant to local agency approved.
- (e) Vadose zone vapor monitoring shall comply with the following minimum requirements:
 - (1) The vapor characteristics of the stored product, or a tracer compound placed in the underground storage tank system, shall be sufficiently volatile to result in a vapor level that is detectable by the monitoring devices;
 - (2) Backfill materials and soils surrounding monitoring points shall be sufficiently porous to readily allow diffusion of vapors;
 - (3) The level of background contamination in the excavation zone and surrounding soils shall not interfere with the method used to detect releases from the underground storage tank;
 - (4) The monitoring devices shall be designed and operated to detect any significant increase in concentration above the background of the hazardous substance stored in the underground storage tank, a component or components of that substance, or a tracer compound placed in the tank system;
 - (5) The location and depth of each monitoring point shall be placed according to the most probable movement of vapor through the backfill or surrounding soil;
 - (6) Vapor monitoring wells located in the backfill shall be constructed so that any unauthorized release that may pond at the horizontal interface between the backfill and natural soils can be detected in the vapor well; and
 - (7) All vapor monitoring wells shall be installed, constructed, and sampled according to the requirements specified in sections 2649(b), (c), (e), and (f).
- (f) Soil-pore liquid monitoring and other forms of vadose zone monitoring shall comply with the following minimum requirements:
 - (1) The stored substance shall be susceptible to detection by the proposed release detection method;
 - (2) The stored substance shall not corrode or otherwise attack the materials from which the detection system is constructed or otherwise render the detection system inoperable or inaccurate; and
 - (3) Site-specific conditions (e.g., precipitation, ground water, soil-moisture, background contamination) shall not interfere with the operability and accuracy of the release detection method.

- (g) Compliance with the requirements of subsections subdivisions (e) and (f) above, shall be based on a site-assessment site assessment including assessment of the underground storage tank excavation zone.
- (h) Site assessments conducted on and after the effective date of this subdivision in accordance with subdivision (g) above, shall be signed by a professional engineer, professional geologist, or equivalent licensed professional with experience in environmental engineering, hydrogeology, or other relevant technical discipline.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Section 25292, Health and Safety Code; and 40 CFR §§ 280.43 and 280.45.

§ 2648. Ground Water Monitoring Requirements.

- (a) Owners or operators of existing underground storage tanks who use ground water monitoring as part of a non-visual monitoring program shall comply with the requirements of this section. Ground water monitoring may be used in combination with other quantitative or qualitative release detection methods or, where permissible under this section, as the sole release detection method.
- (b) Ground water monitoring may be used as the sole release detection method of non-visual monitoring for existing underground tanks only where all of the following conditions exist:
 - (1) The hazardous substance stored is immiscible with water and has a specific gravity of less than one:
 - (2) Continuous monitoring devices or manual methods are used which are capable of detecting the presence of at least one-eighth of an inch of free product on top of the ground water in the monitoring wells. This capability shall be certified by an independent third party using an appropriate evaluation procedure. Examples of acceptable evaluation procedures are in Appendix IV;
 - (3) The existing ground water level or the highest anticipated ground water level, including intermittent perched ground water, is less than 20 feet from the ground surface. These ground water levels shall be determined according to the requirements of section 2649(c);
 - (4) The hydraulic conductivity of the soil(s) between the underground storage tank and the monitoring wells or devices is at least 0.01-cm/sec_centimeters per second (e.g., the soil consists of gravels, coarse to medium sands, or other permeable materials);
 - (5) The ground water proposed for monitoring has no present beneficial uses (e.g., domestic, municipal, industrial, <u>or</u> agricultural supply) or is not hydraulically connected to ground or surface water which has actual beneficial uses; and
 - (6) Monitoring wells or devices are located within the excavation zone or as close to the excavation zone as feasible.

- (c) Compliance with the conditions specified in <u>subdivision subsection</u> (b) <u>above</u>, shall be based on a <u>site-assessment site assessment</u>, including assessment of the areas within and immediately below the underground storage tank excavation zone. If ground water monitoring is approved as the sole release detection method of a non-visual monitoring program, the number and location of the monitoring wells and/or devices as approved by the local agency shall also be based on this <u>site-assessment</u> site assessment with minimum requirements as follows:
 - (1) Single tank two wells, one at each end of the tank.
 - (2) Two or three tanks three wells equally spaced.
 - (3) Four or more tanks four wells, at least two of which shall be downgradient and the remainder equally spaced.
 - (4) Pipelines additional wells, if needed, as determined by the local agency.
- (d) Site assessments conducted on and after the effective date of this subdivision in accordance with subdivision (c) above, shall be signed by a professional engineer, professional geologist, or equivalent licensed professional with experience in environmental engineering, hydrogeology, or other relevant technical discipline.
- (d)(e) Ground water monitoring shall be conducted at least-monthly once every 30 days or continuously. Any continuous monitoring system shall be capable of detecting the presence of hazardous substance on top of the ground water in the monitoring well and shall allow periodic collection of samples. Ground water samples shall be analyzed by visual observation or field or laboratory analysis as approved by the local agency depending on the method of monitoring and the constituents being evaluated. The local agency may require periodic laboratory analysis where visual observation or field analysis does not provide an adequate degree of detection as compared to that of laboratory analysis. Sampling conducted which requires field or laboratory analysis shall comply with the minimum requirements of section 2649(g).
- (e)(f) The number, location, and depths of ground water monitoring wells shall be selected to achieve the objective specified in section 2641(a). Monitoring wells shall be located as close as possible to the underground storage tank or the perimeter of the underground storage tank cluster, subject to the review and approval of the local agency.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Section 25292, Health and Safety Code; and 40 CFR §§ 280.43 and 280.45.

- § 2649. Well Construction and Sampling Requirements.
- (a) Owners or operators who use a qualitative release detection method shall comply with the requirements of this section and any applicable requirements of sections 2644, 2647, and 2648.
- (b) The installation of all monitoring wells and the drilling of all other borings shall be in accordance with local permitting requirements or, in their absence, with the following requirements:

- (1) All monitoring wells and all other borings shall be logged during drilling according to the following requirements:
 - (A) Soil shall be described in the geologic log according to the Unified Soil Classification System as presented in Geotechnical Branch Training Manual Numbers 4, 5, and 6, published in January of 1986 (available from the Bureau of Reclamation, Engineering and Research Center, Attention: Code D-7923- A, Post Office Box 25007, Denver, Colorado 80225);
 - (B) Rock shall be described in the geologic log in a manner appropriate for the purpose of the investigation;
 - (C) All wet zones above the water table shall be noted and accurately logged. Where possible, the depth and thickness of saturated zones shall be recorded in the geologic log; and
 - (D) Geologic logs shall be prepared by a professional geologist or civil engineer, who is registered or certified by the State of California and who is experienced in the use of the Unified Soil Classification System. The geologic logs may also be prepared by a technician trained and experienced in the use of the Unified Soil Classification System who is working under the direct supervision of one of the aforementioned professionals, provided that the professional reviews the logs and assumes responsibility for the accuracy and completeness of the logs.
- (2) All drilling tools shall be thoroughly steam cleaned immediately before each boring is started:
- (3) All well casings, casing fittings, screens, and all other components that are installed in a well shall be thoroughly cleaned before installation;
- (4) Soil and water sampling equipment and materials used to construct a monitoring well shall be compatible with the stored hazardous substance and shall not donate, capture, mask, or alter the constituents for which analyses will be made. All perforated casings used in the construction of monitoring wells shall be factory perforated:
- (5) Drilling fluid additives shall be limited to inorganic, non-hazardous materials which conform to the requirements of subsection (b)(4). All additives used shall be accurately recorded in the boring log;
- (6) Representative samples of additives, cement, bentonite, and filter media shall be retained for 90 calendar days for possible analysis for contaminating or interfering constituents;
- (7) If evidence of contamination is detected by sight, smell, or field analytical methods, drilling shall be halted until a responsible professional determines if further drilling is advisable:
- (8) All borings which are converted to vadose zone monitoring wells shall have the portion of the boring which is below the monitored interval sealed with approved grout;

- (9) All borings which are not used for ground water or vadose zone monitoring shall be sealed from the ground surface to the bottom of the boring with an approved grout. All slurry-type grouts used to seal an abandoned boring or an abandoned well shall be emplaced by the tremie method; and
- (10) All monitoring wells shall be clearly marked and secured to avoid unauthorized access and tampering. Surface seals may be required by the local agency.
- (c) When installing a vadose zone or ground water monitoring well, the highest anticipated ground water level and existing ground water level shall be determined. Highest anticipated ground water levels shall be determined by reviewing all available water level records for wells within one mile of the site. Existing site ground water levels shall be established either by reviewing all available water level measurements taken within the last two years 24 months at all existing wells, within 500 feet of the underground storage tank which are perforated in the zone of interest, or by drilling at least one exploratory boring constructed as follows:
 - (1) The exploratory boring shall be drilled down gradient, if possible, and as near as possible to the underground storage tank within the boundaries of the property encompassing the facility, but no further than ten-10 feet from the underground storage tank;
 - (2) The exploratory boring may be of any diameter capable of allowing the detection of first ground water;
 - (3) The exploratory boring shall be drilled to first perennial ground water, or to a minimum depth of 20 feet for vadose zone monitoring wells, or to a minimum depth of 30 feet for ground water monitoring wells if permitted by site lithology;
 - (4) If ground water is encountered, and ground water monitoring is the monitoring method, the boring shall be converted to a ground water monitoring well consistent with the provisions of this section; and
 - (5) If ground water is encountered, but ground water monitoring is not the monitoring method, or if the exploratory boring does not encounter ground water, the boring shall be sealed in accordance with the provisions of subsection (b)(9).
- (d) In addition to the requirements of subsection (b), all ground water monitoring wells shall be designed and constructed according to the following minimum requirements:
 - (1) Ground water monitoring wells shall extend at least 20 feet below the lowest anticipated ground water level and at least 15 feet below the bottom level of the underground storage tank. However, wells shall not extend through laterally extensive impermeable zones that are below the water table and that are at least five feet thick. In these situations, the well shall be terminated one to two feet into the impermeable zone;
 - (2) Ground water monitoring wells shall be designed and constructed as filter packed wells that will prevent the migration of the natural soil into the well and with factory perforated casing that is sized to prevent migration of filter material into the well;
 - (3) Ground water monitoring well casings shall extend to the bottom of the boring and shall be factory perforated from a point of one foot above the bottom of the casing to an

elevation which is either five feet above the highest anticipated ground water level or to within three feet of the bottom of the surface seal or to the ground surface, whichever is the lowest elevation:

- (4) All well casings shall have a bottom cap or plug;
- (5) Filter packs shall extend at least two feet above the top of the perforated zone except where the top two feet of the filter pack would provide cross-connection between otherwise isolated zones or where the ground surface is less than ten-10 feet above the highest anticipated ground water level, the local agency may reduce the height of the filter pack so long as the filter pack extends at least to the top of the perforated zone. Under such circumstances, additional precautions shall be taken to prevent plugging of the upper portion of the filter pack by the overlying sealing material;
- (6) Ground water monitoring wells shall be constructed with casings having a minimum inside diameter of two inches and shall be installed in a boring whose diameter is at least four inches greater than the outside diameter of the casing;
- (7) Ground water monitoring wells shall be sealed in accordance with local permitting requirements or, in their absence, with the Department of Water Resources Standards for Well Construction (Reference Bulletins 74-81 and 74-90 on Water Well Standards are available from the Department of Water Resources, Sacramento);
- (8) Seventy-two or more hours following well construction, all ground water monitoring wells shall be adequately developed and equilibrium shall be established prior to any water sampling;
- (9) Well heads Wellheads shall be provided with a water-tight cap and shall be enclosed in a surface security structure that protects the well from surface water entry, accidental damage, unauthorized access, and vandalism. Traffic lids shall be clearly marked as monitoring wells; and
- (10) Pertinent well information including well identification, well type, well depth, well casing diameters (if more than one size is used), and perforated intervals shall be permanently affixed to the interior of the surface security structure and the well identification number and well type shall be affixed on the exterior of the surface security structure.
- (e) In addition to the requirements of subsection (b), all vadose zone vapor monitoring wells shall be cased and sealed as follows:
 - (1) Well casings for vapor monitoring shall be fully perforated except for the portion adjacent to a surface seal and that portion used as a free liquid trap;
 - (2) Surface seals for vapor wells that are completed no more than five feet below the bottom of the underground storage tank and which are above any free water zones may be required at the discretion of the local agency on a site-specific basis;
 - (3) If surface seals for vapor wells are completed in or below a potential free water zone, the seal shall not extend below the top of the underground storage tank; and

- (4) Vapor wells need not be sealed against infiltration of surface water if constructed wholly within backfill that surrounds the underground storage tank and which extends to the ground surface.
- (f) Undisturbed (intact) soil samples shall be obtained from all borings for the installation of monitoring wells and all other borings and analyzed according to the following minimum requirements, unless the local agency waives this requirement under this subsection:
 - (1) Borings shall be drilled and sampled using accepted techniques which do not introduce liquids into the boring and which will allow the accurate detection of perched and saturated zone ground water. If this cannot be accomplished using acceptable techniques, the requirement for soil sampling may be waived by the local agency provided, however, that installation of the vadose zone or ground water monitoring system shall be completed; and provided further, that once below the water table, borings need not be advanced using the same method that was used in the vadose zone;
 - (2) Soil samples shall be obtained at intervals of five feet or less and at any significant change in lithology, beginning at the ground surface. Sampling is not required in unweathered bedrock which has little <u>on-or</u> no permeability;
 - (3) A soil sample shall be obtained at the termination depth of a dry boring regardless of the spacing interval;
 - (4) Soil samples shall be of sufficient volume to perform the designated analyses including soil vapor and soil extract analyses and to provide any specified replicate analyses;
 - (5) Soil samples shall be acquired, prepared, preserved, stored, and transported by methods that are appropriate for the objectives of the investigation which safeguard sample integrity and satisfy the requirements of subsection (g);
 - (6) Samples shall be analyzed in a State-certified laboratory by methods that provide quantitative or qualitative results. Lower detection limits shall be verified by the laboratory:
 - (7) Samples shall be analyzed for one or more of the most persistent constituents that have been stored in the underground storage tank. If the use of the underground storage tank has historically changed, samples shall be analyzed for at least one constituent from each period of use. If the hazardous substance is known to degrade or transform to other constituents in the soil environment, the analysis shall include these degradation and/or transformation constituents;
 - (8) If hazardous substances known or suspected to have been contained in the underground storage tank are detected at concentrations in excess of background concentrations (background concentrations shall be applicable only if the constituent occurs naturally at the site), further soil analysis is not necessary pursuant to this subsection. The hazardous substance(s) shall be assumed to have originated from the underground storage tank. In this situation, the remainder of the soil samples need not be analyzed pursuant to these regulations and the owner or operator shall comply with subdivision (9) below. A permit shall not be granted unless further detailed investigation clearly establishes that the underground storage tank is not the source of

the hazardous substance or that it has been properly repaired since the unauthorized release and that any subsequent unauthorized release from the underground storage tank can be detected despite the presence of the hazardous substance already in the environment; and

- (9) If soil analysis indicates that an unauthorized release has occurred, the owner or operator shall comply with the release reporting requirements of Article 5 and shall replace, repair, upgrade, or close the underground storage tank pursuant to the applicable provisions of this chapter.
- (g) The qualitative release detection method shall include consistent sampling and analytical procedures, approved by the local agency, that are designed to ensure that monitoring results provide a reliable indication of the quality of the medium (e.g., ground water, soilpore liquid, soil vapor, or soil) being monitored. Some acceptable procedures are listed as references in Appendix I, Table C. The owner or operator shall provide a written detailed description, to be specified in the permit and to be maintained as part of the records required under section 2712 of Article 10, of the procedures and techniques for:
 - (1) Sample collection (e.g., purging techniques, water level, sampling equipment, and decontamination of sampling equipment);
 - (2) Sample preservation and shipment;
 - (3) Analytical procedures; and
 - (4) Chain-of-custody control.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Section 25292, Health and Safety Code; and-40 CFR § 280.43.

Article 6. Underground Storage Tank Repair and Upgrade Requirements

§ 2660. General Applicability of Article.

- (a) This article describes the requirements for repairing or upgrading underground storage tank systems. Upgrades and repairs shall be properly conducted in accordance with this article and any additional manufacturer's specifications.
- (b) Section 2661 describes the requirements for repairing underground storage tanks, piping, or other underground storage tank system components that have caused an unauthorized release as defined in sections 25294 and 25295 of the Health and Safety Code.
- (c) Section 2662(b) describes upgrade requirements for underground storage tanks containing hazardous substances other than motor vehicle fuel. Sections 2662(c), and (d) describe upgrade requirements for all underground storage tanks containing motor vehicle fuel. Underground storage tanks which contain motor vehicle fuel and which are constructed of fiberglass, other non-corrosive materials, steel clad with fiberglass, or steel clad with other noncorrosive materials, are not required to comply with the requirements of section 2662(c), but are required to meet the requirements of section 2662(d).

- (d) Section 2663 describes the requirements for upgrading or repairing tanks using interior lining.
- (e) Section 2664 describes the requirements for upgrading tanks using bladder systems.
- (f) Section 2665 describes the upgrade requirements for spill <u>containers</u> and overfill prevention equipment.
- (g) Section 2666 describes the upgrade requirements for underground piping.
- (h) Owners or operators shall meet the upgrade Upgrade requirements for underground storage tanks, spill containers, and overfill prevention equipment, and underground piping, and shall be completed no later than December 22, 1998. Requirements for under-dispenser containment, or under-dispenser spill control or containment systems, shall be completed no later than December 31, 2003 as applicable.
- (i) As a preventive measure, an owner or operator may upgrade any underground storage tank constructed of any material which is not under pressure and which contains motor vehicle fuel as specified in sections 2662(a), (c), and (e). Before upgrading in accordance with this <u>subdivision-subsection</u>, the owner or operator shall prove to the satisfaction of the local agency that the underground storage tank system has not caused an unauthorized release. If soil samples are taken, the owner or operator shall notify the local agency in advance of taking the samples.
- (j) Owners or operators shall maintain records of repairs, linings, and upgrades that demonstrate compliance with the requirements of this article for the remaining operating life of the tank.
- (k) Local agencies shall not approve a repair or upgrade unless it can be demonstrated that the underground storage tank system is structurally sound and the method of repair or upgrade will prevent unauthorized releases due to structural failure or corrosion during the operating life of the underground storage tank system.
- (I) The materials used in the repair or upgrading process shall be applied in accordance with nationally recognized engineering practices.
- (m) Materials used in repairs and upgrades shall be compatible with the existing underground storage tank system existing materials and shall not be subject to deterioration due to contact with the hazardous substances being stored.
- (n) Steel underground storage tanks that exhibit corrosion during the course of repair or upgrade shall comply with the cathodic protection requirements of section 2635(a)(2).

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25284.1, 25292, 25292.1 and 25296, Health and Safety Code; and_40 CFR §§ 280.11, 280.12, 280.23 and 281.32(and_40 CFR §§ 280.11, 280.29, 280.21, 280.33 and 281.32(and_40 CFR sections 25294.1, 280.33 and 281.32(and_40 CFR sections 25284.1, 280.33 and 281.32(and_40 CFR sections 25284.1, 280.33 and 281.32(and_40 CFR sections 25284.1, 280.33 and 281.32(and_40 CFR sections 25284.1, 280.33 and 281.32(and_40 CFR and_40

- § 2661. Requirements for Repairing Underground Storage Tank.
- (a) Before repairing an underground storage tank system, the owner or operator shall comply with applicable requirements of Article 5.

- (b) Before repairing an underground storage tank system, the owner or operator shall demonstrate to the satisfaction of the local agency that the conditions and requirements specified in <u>subsection section</u> 2660(k) will be met. When selecting a method of repair, the owner or operator shall take into consideration whether the cause of failure is isolated to the actual failure, is affecting other areas of the underground storage tank, or if any other cause of failure is affecting the primary container.
- (c) A tank may be repaired once using the interior lining method specified in section 2663. A previously lined tank may not be repaired using the interior lining method.
- (d) Holes in steel tanks shall be plugged using self-tapping bolts, boiler plugs, water-tight hydraulic cement, or by welding. In addition, holes in steel and fiberglass tanks shall be repaired as follows:
 - (1) Repair areas shall be covered with epoxy or isophthalic polyester based resin. The resin shall be compatible with the intended use of the tank.
 - (2) Fiberglass cloth with a minimum weight of 1.5-oz/yd ounces per yard that is silane-treated shall be worked completely into the resin base. The resin base shall be installed a minimum of two inches beyond the fiberglass cloth.
 - (3) All repairs shall include installation of fiberglass cloth with a minimum dimension of 12 x 12 inches centered over the area to be repaired. Larger repairs shall require the cloth to be large enough to provide cloth coverage of at least five inches of cloth bonded to the tank wall, measured from the outermost edge of the repair to the cloth's edge.
 - (4) A second layer of fiberglass cloth of the same weight as specified in-subsection subdivision (d)(2) above, shall be installed directly over the primary cloth layer and shall be cut to overlap the primary patch by 1.5 inches on all sides.
 - (5) The repair shall be allowed sufficient cure time, as determined by the resin manufacturer, to provide an acceptable base for tank lining installation.
- (e) Metal piping, pipe fittings, or tank fittings that have released product as a result of corrosion or other damage shall be replaced. Non-metal piping, pipe fittings, or tank fittings shall be repaired or replaced in accordance with manufacturer specifications.
- (f) Tanks and piping which have been repaired shall be tested for tightness within 30 calendar days following the date of completion of the repair. Tanks shall be tested in accordance with section 2643.1. Piping shall be tested in accordance with existing section 2636(f)(3) or 2643(c)(3), as applicable. Tanks or piping that fail this test shall be repaired in accordance with this section or closed in accordance with Article 7.
- (g) A vapor or ground water monitoring system shall be installed to continuously monitor a tank repaired by lining for future unauthorized releases, in accordance with section 2647 or 2648, if no secondary containment system exists.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code.

Reference: Sections 25292.1 and 25296, Health and Safety Code; and 40 CFR § 280.33.

- § 2663. Interior Tank Lining Requirements.
- (a) Tank lining may be used to satisfy part of the upgrade requirements of section 2662 or to repair a tank pursuant to section 2661. However, a tank that has been repaired using the interior lining method may not be repaired a second time with the interior lining method. The evaluations described in subsections (b) and (c) of this section shall be completed before the lining of a primary container may be authorized by the local agency. The local agency shall deny the proposed lining if the owner fails to demonstrate that the lined primary container will provide continued containment based on the evaluations described in subsections (b) and (c).
- (b) Appropriate tests shall be conducted by a special inspector who shall certify that the shell will provide structural support if the tank is lined. A copy of this certification shall be provided by the owner to the local agency. The special inspector shall make this certification by entering and inspecting the entire interior surface of the tank and shall base this certification upon of the following sets of procedures an and criteria:
 - (1) If a tank is made of non-corrodible material, the following shall be performed:
 - (A) The tank shall be cleaned so that no residue remains on the tank wall surface;
 - (B) The special inspector shall take interior diameter measurements and, if the crosssection of the tank has compressed more than one percent of the original diameter, the tank shall neither be certified nor returned to service unless the tank is excavated and repaired to correct the compression;
 - (C) The special inspector shall conduct an interior inspection to identify any area where compression or tension cracking is occurring and shall determine whether additional fiberglass reinforcing is required for certification before the tank may be lined; and
 - (D) If the special inspector does not certify the tank as suitable for lining because it failed a test conducted in accordance with subdivisions (1)(A) through (C) of this subsection, the tank shall be closed in accordance with Article 7.
 - (2) If the tank is constructed of steel or steel clad with a non-corrodible material, the following shall be performed:
 - (A) The tank interior surface shall be abrasive-blasted completely free of scale, rust, and foreign matter; and,
 - (B) The entire tank interior shall be tested using a thickness gauge on a one-foot grid pattern with wall thicknesses recorded on a form that identifies the location of each reading. The tank shall be closed in accordance with Article 7 if the tank's average metal thickness is less than 75 percent of the original wall thickness or if the tank has any of the following defects:
 - 4.(i) An open seam or a split longer than three inches;
 - 2.(ii) A perforation larger than one and one half inches in diameter except directly below a gauging opening at the bottom of a tank where the perforation shall be no longer than two and one half inches in diameter;

- 3.(iii) Five or more perforations in any one square-foot area; or-
- 4.(iv) Multiple perforations of which any single perforation is larger than one half inch in diameter.
- (3) A test approved by the State Water Board as comparable to the tests specified in subsections (b)(1) or (2) above.
- (c) The owner or operator shall demonstrate to the satisfaction of the local agency, based on the tests conducted in accordance with subsection (b) above, that a serious corrosion or structural problem does not exist. If the local agency or special inspector determines that a serious corrosion or structural problem exists, interior lining may be performed only if it can be demonstrated to the satisfaction of the local agency that new or additional corrosion protection will significantly minimize the corrosion and that the existing corrosion problem does not threaten the structural integrity or containment ability of the underground storage tank.
- (d) Before lining a tank, thin areas or other flaws in the tank walls which need additional reinforcing shall be reinforced in accordance with section 2661(d).
- (e) On and after August 9, 1992, the lining material and lining process shall be listed or certified by an independent testing organization based on voluntary consensus standards.
- (f) Before being returned to service, any tank which has been lined shall be internally inspected by a coatings expert or special inspector for conformance with the standards under which the tank was lined. This inspection shall be conducted in accordance with section 2663(h) except for subdivisions (h)(3) and (h)(5).
- (g) Following the lining process and before it is returned to service, the tank shall be given a tank integrity test.
- (h) If a steel tank is lined for the purpose of satisfying the requirements of section 2662(c), or if any tank is repaired using the interior lining method, it shall be inspected by a coatings expert or special inspector within ten years 120 months of lining and every five years 60 months thereafter. Written certification of the inspection shall be provided by the tank owner and the party performing the inspection to the local agency within 30 calendar days of completion of the inspection. The inspection shall include all of the following:
 - (1) Determining that the tank has been cleaned so that no residue remains on the tank walls.
 - (2) Determining that the tank has been vacuum tested at a vacuum of 5.3 inches of Hg for no less than one minute. This vacuum test is not required if the tank is constructed of fiberglass and is submerged in groundwater by more than 50% percent of its depth.
 - (3) If the tank is constructed of fiberglass, taking interior diameter measurements to verify whether the cross-section has compressed by more than one percent of the original diameter.

- (4) Visually checking the tank interior and lining for discontinuity, compression, tension cracking, and corrosion.
- (5) For steel tanks, testing the entire tank interior using a thickness gauge on a one-foot grid pattern with metal wall thickness recorded on a form that identifies the location of each reading in order to verify that average metal thickness is greater than 75 percent of the original wall thickness.
- (6) Testing for thickness and hardness of the lining in accordance with nationally recognized industry codes to verify that the lining meets the standards under which the lining was applied.
- (7) For steel tanks, testing the lining using an electrical resistance holiday detector in accordance with nationally-recognized industry codes. The owner or operator shall have all holidays repaired and checked in accordance with nationally recognized industry codes.
- (8) Certification from the special inspector or coatings expert that:
 - (A) The the tank is suitable for continued use for a minimum of five years 60 months.
 - (B) The the tank is suitable for continued use for a minimum of five years 60 months only if it is relined or other improvements are made.
 - (C) <u>The the tank</u> is no longer suitable for continued use and shall be closed in accordance with Article 7.
- (9) A lined tank shall be closed in accordance with Article 7 at the end of its operational life.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25292, 25292.1 and 25296, Health and Safety Code; and 40 CFR §§ 280.21 and 280.33.

- § 2665. Spill Container and Overfill Prevention Equipment Upgrade Requirements.
- (a) By December 22, 1998, all underground storage tank systems shall be retrofitted with an overfill prevention system equipment and a spill container which meet the requirements of section sections 2635(b) and (c)(1). The local agency may waive the requirements for overfill prevention equipment if the conditions specified in section 2635(b)(3)(c)(2) are met.
- (b) On and after the effective date of this subdivision, all overfill prevention equipment and spill containers shall meet the requirements of Article 3.
- (c) All overfill prevention equipment which use flow restrictors on vent piping which require repair or replacement on or after the effective date of this subdivision, shall be retrofitted with overfill prevention equipment in accordance with sections 2635(c) and (d).

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25292 and 25292.1, Health and Safety Code; and-40 CFR §§ 280.20 and 280.21.

- § 2666. Requirements for Upgrading Underground Piping.
- (a) By December 22, 1998, all underground piping containing hazardous substances other than motor vehicle fuel shall be retrofitted with secondary containment meeting the requirements of section 2636.
- (b) By December 22, 1998, all All underground piping containing motor vehicle fuel and connected to an existing tank shall meet all of the following:
 - (1) By December 22, 1998, be retrofitted with secondary containment unless the owner or operator demonstrates to the local agency that the piping is constructed of fiberglass reinforced plastic, cathodically protected steel, or other materials compatible with stored products and resistant to corrosion. The secondary containment system shall meet the construction, installation, and monitoring requirements of section 2636.
 - (2) All buried single-walled piping, except for vent piping, vapor recovery piping, tank riser piping, and suction piping meeting the requirements of section 2636(a)(3), shall meet Article 3 when repaired or replaced on or after the effective date of this subdivision.
- (c) By December 22, 1998, all automatic line leak detectors for underground pressurized piping which is not secondarily contained shall be capable of shutting off the pump when a release occurs. In addition, the pumping system shall shut down automatically if the automatic line leak detector fails or is disconnected. In lieu of the above, for underground storage tank emergency generator systems, the leak detector must be connected to an audible and visible alarm to indicate a release malfunction of the system.
- (d) All underground piping and secondary containment shall be tested for tightness after installation in accordance with section 2636(e).
- (e) By December 31, 2003, all All existing underground storage tanks shall meet all of the following:
 - (1) By December 31, 2003, be retrofitted with under-dispenser containment, or an under-dispenser spill containment or control system. The under-dispenser containment or under-dispenser spill containment or control system shall meet, where applicable, the requirements of <u>section</u> 2636(g).
 - (2) On and after the effective date of this subdivision, all under-dispenser containment and under-dispenser spill containment or control systems shall meet the requirements of Article 3.
- (f) By October 13, 2018, all underground pressurized piping connected to an emergency generator tank system shall be retrofitted with an automatic line leak detector in accordance with section 2636(f)(2). In lieu of restricting or shutting off the flow of product through the piping, the automatic line leak detector may activate an audible and visual alarm when a leak is detected.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25284.1, 25292 and 25292.1, Health and Safety Code; and 40 CFR §§ 280.10, 280.20, 280.21, 280.32, 280.33, 280.35 and 280.44.

Article 7. Underground Storage Tank Closure Requirements

- § 2672. Permanent Closure Requirements.
- (a) Owners or operators of underground storage tanks subject to permanent closure shall comply with either <u>subsection_subdivision</u> (b) <u>below</u> for underground storage tank removal or <u>subsection_subdivision</u> (c) <u>below</u> for closure in place. It is not essential that all portions of an underground storage tank be permanently closed in the same manner; however, all closure actions shall be conducted in accordance with this section. <u>Subsections_Subdivisions</u> (d) and (e) <u>below_apply</u> to all underground storage tanks subject to permanent closure.
- (b) Owners or operators of underground storage tanks subject to permanent closure shall comply with applicable provisions of Chapter 6.5 of Division 20 of the Health and Safety Code and with the following requirements:
 - (1) All residual liquid, solids, or sludges shall be removed and handled as hazardous wastes or recyclable materials in accordance with Chapter 6.5 of the Health and Safety Code.
 - (2) If the underground storage tank contained a hazardous substance that could produce flammable vapors at standard temperature and pressure, it shall be inerted to levels that shall preclude explosion or to lower levels as required by the local agency.
 - (3) When an underground storage tank or any part thereof is disposed of, the owner or operator shall document to the local agency that proper disposal has been completed. This documentation shall be submitted within the time frame specified by the local agency.
 - (4) An owner or operator of an underground storage tank or any part thereof that is destined for a specific reuse shall advise the local agency, within the time frame specified by that agency, of:
 - (A) The name of the new owner and new operator of the underground storage tank;
 - (B) The location of intended use; and
 - (C) The nature of intended use.
- (c) Owners or operators of underground storage tanks subject to permanent closure where the tanks are approved to be closed in place shall comply with the applicable provisions of Chapters 6.5 and 6.7 of Division 20 of the Health and Safety Code and with the following requirements:
 - (1) All residual liquid, solids, or sludges shall be removed and handled as a hazardous waste or recyclable materials in accordance with Chapters 6.5 and 6.7 of the Health and Safety Code.
 - (2) If the underground storage tank contained a hazardous substance that could produce flammable vapors at standard temperature and pressure, it shall be inerted to levels that shall preclude explosion or to lower levels as may be required by the local agency.

- (3) All piping associated with the underground storage tank shall be removed and disposed of unless removal might damage structures or other pipes that are being used and that are contained in a common trench, in which case the piping to be closed shall be emptied of all contents and capped.
- (4) The underground storage tank, except for piping that is closed in accordance with subdivision (3) <u>above</u>, shall be completely filled with an inert solid, unless the owner intends to use the underground storage tank for the storage of a nonhazardous substance which is compatible with the previous use and construction of the underground storage tank.
- (d) The owner or operator of an underground storage tank being closed pursuant to this section shall demonstrate to the satisfaction of the local agency that no an unauthorized release has not occurred. This demonstration shall be based on soil sample analysis and/or water analysis if water is present in the excavation. This analysis shall be performed during or immediately after closure activities. If the demonstration is based on soil sample analysis, soil samples shall be taken and analyzed as follows:
 - (1) If the underground storage tank or any portion thereof is removed, soil samples shall be taken immediately beneath the removed portions of the tank, a minimum of two feet into native material at each end of the tank in accordance with section 2649. A separate sample shall be taken for each 20 linear-feet of trench for piping.
 - (2) If the underground storage tank or any portion thereof is not removed, at least one boring shall be taken as close as possible to the midpoint beneath the tank using a slant boring (mechanical or manual), or other appropriate method such as vertical borings drilled on each long dimensional side of the tank as approved by the local agency.
- (3) Soils shall be analyzed in accordance with section 2649 for all constituents of the previously stored hazardous substances and their breakdown or transformation products. The local agency may waive the requirement for analysis of all constituents, breakdown or transformation products when key constituents that pose a significant threat to water quality or the environment can be identified for analysis.
- (e) The detection of any reportable unauthorized release shall require compliance with the applicable requirements of Articles 5 and 11.
- (f) On and after the effective date of this subdivision, owners or operators of an underground storage tank that is closed pursuant to this section shall maintain the analytical results of all soil and groundwater samples for at least 36 months after the underground storage tank system is properly closed.

Authority cited: Sections 25299.3, 25299.7 and 25299.77, Health and Safety Code. Reference: Sections 25298 and 25299.37, Health and Safety Code; and 40 CFR §§ 280.34, 280.60, 280.61, 280.62, 280.63, 280.64, 280.65, 280.66, through 280.67, 280.71, 280.73, 280.74 and 281.36.

Article 10. Permit Application, Quarterly Report and Trade Secret Request Requirements

- § 2711. Information and Application for Permit to Operate an Underground Storage Tank.
- (a) The permit application shall include, but not be limited to, the following information to the extent such information is known to the permit applicant:
 - (1) The name and address of the person who owns the underground storage tank or tanks.
 - (2) The name, location, mailing address, and telephone number where the underground storage tank is located, and type of business involved, if any.
 - (3) The name, address, and telephone numbers of the underground storage tank operator and 24-hour emergency contact person.
 - (4) The name and telephone number of the person making the application.
 - (5) A description of the underground storage tank including, but not limited to, the underground storage tank manufacturer, date of installation, and tank capacity.
 - (6) Construction details of the underground storage tank and any auxiliary equipment including, but not limited to, type of primary containment, type of secondary containment (if applicable), spill containers, and overfill prevention equipment, interior lining, and corrosion protection (if applicable).
 - (7) A description of the piping including, but not limited to, the type of piping system, construction, material, corrosion protection, and leak detection.
 - (8) A scaled diagram or design or as-built drawing which indicates the location of the underground storage tank (underground storage tank, piping, auxiliary equipment) with respect to buildings or other landmarks.
 - (9) The description of the proposed monitoring program including, but not limited to, the following where applicable:
 - (A) Visual inspection procedures:
 - (B) Underground storage tank release detection methods or inspection procedures;
 - (C) Inventory reconciliation including gauging and reconciliation methods;
 - (D) Piping leak detection methods;
 - (E) Vadose zone sampling locations, and methods and analysis procedures;
 - (F) Ground water well(s) locations construction and development methods, sampling, and analysis procedures; and
 - (10) A list of all of the substances which have been, are currently, or are proposed to be stored in the underground storage tank or tanks.

- (11) Documentation to show compliance with state and federal financial responsibility requirements applicable to underground storage tanks containing petroleum.
- (12) If the owner or operator of the underground storage tank is a public agency, the application shall include the name of the supervisor of the division, section, or office which operates the underground storage tank.
- (13) The permit application shall be signed by:
 - (A) The underground storage tank owner, underground storage tank operator, facility owner or facility operator, or a duly authorized representative of the owner; or,
 - (B) If the tank or facility is owned by a corporation, partnership, or public agency, the application shall be signed by:
 - 4.(i) A principal executive officer at the level of vice-president or by an authorized representative. The representative shall be responsible for the overall operation of the facility where the underground storage tank(s) are located; or,
 - 2.(ii) A general partner proprietor; or,
 - 3.(iii) A principal executive officer, ranking elected official, or authorized representative of a public agency.
- (b) The owner or operator shall submit to the local agency through the California Environmental Reporting System or a local reporting portal any changes to the information provided in accordance with subdivision (a) <u>above</u>, within 30 calendar days unless required to obtain approval before making the change.
- (c) On and after the effective date of this subdivision, the owner or operator shall notify the local agency at least 30 days before changing the substance currently stored in the underground storage tank. The notification shall be in writing and include the substance to be stored, the date storage of the substance will begin, and compatibility documentation demonstrating compliance with sections 2630(d), 2631(b), (d), (j), (k), and (l), 2633(b), 2638(a), 2640.1, 2641(j), and 2643(f), as applicable.
- (c)(d) All applicable submittal elements for the permit application must be submitted to the California Environmental Reporting System or a local reporting portal. Owners and operators shall pay all applicable local government and state surcharge fees.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25286, 25287 and 25404, Health and Safety Code; and 40 CFR §§ 280.32 and 280.34.

§ 2712. Permit Conditions.

(a) As a condition of any permit to operate an underground storage tank, the owner or operator shall comply with the reporting and recording requirements for unauthorized releases specified in Article 5.

- (b) The owner or operator shall maintain the following records. Written monitoring and maintenance records shall be maintained on-site, or off-site at a readily available accessible location; if approved by the local agency, for the specified a period, of at least 3 years, 6 1/2 years for cathodic protection maintenance records, and 5 years for written performance claims pertaining to release detection systems, and calibration and maintenance records for such systems. Records of repairs, lining, and upgrades shall be maintained on site or at another approved location for the remaining life of the underground storage tank. These records shall be made available, upon request within 36 hours, to the local agency or the State Water Board.
 - (1) Monitoring <u>and maintenance</u> records shall <u>be maintained for at least 36 months and</u> include <u>the following</u>:
 - (1)(A) The date and time of all monitoring or sampling;
 - (2) Monitoring equipment calibration and maintenance records;
 - (3)(B) The results of any visual observations;
 - (4)(C) The results of all sample analysis performed in the laboratory or in the field, including laboratory data sheets and analysis used;
 - (5)(D) The logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; and
 - (6)(E) The results of inventory readings and reconciliations.;
 - (F) The results of testing; and
 - (G) The results of inspections.
 - (2) Records pertaining to the release detection system, such as written performance claims, calibration, and maintenance records shall be maintained for at least 60 months;
 - (3) Records pertaining to a cathodic protection system shall be maintained for at least 78 months;
 - (4) On and after October 13, 2018, the record of the site assessment required for vapor and groundwater monitoring shall be maintained for as long as the monitoring methods are used;
 - (5) On and after the effective date of this paragraph, documentation of the underground tank system's compatibility with the stored substance, in accordance with-sections section 2711(c), shall be maintained for as long as the system is used to store the specific substance; and
 - (6) Records of repairs, lining, and upgrades shall be maintained for the remaining life of the underground storage tank.
- (c) A permit to operate issued by the local agency shall be effective for <u>5 years 60 months</u>. In addition to other information specified by the local agency, the permit shall include the

permit expiration date, California Environmental Reporting System identification number, monitoring requirements, and the state underground storage tank identification number(s) for which the permit was issued. Before a local agency issues a new permit or renewal to operate an underground storage tank the local agency shall inspect the underground storage tank and determine that it complies with the provisions of these regulations.

- (d) Permits may be transferred to new underground storage tank owners if: (1) the new underground storage tank owner does not change conditions of the permit; and (2) the transfer is reported to the local agency by submitting all of the required submittal elements in the California Environmental Reporting System or a local reporting portal within 30 days of the change in ownership. Transferred permits shall expire and be renewed on the original expiration date. A local agency may review, modify, or terminate the permit to operate the underground storage tank upon receiving an ownership transfer request.
- (e) The local agency shall not renew an underground storage tank permit unless the underground storage tank has been inspected by the local agency or a special inspector within the previous 12 months and the inspection verified that the underground storage tank complied with the provisions of Article 3 or 4, as applicable, and with all existing permit conditions. The inspection shall be conducted as specified in section 25288 of Chapter 6.7 of Division 20 of the Health and Safety Code. If the inspection indicated noncompliance then the local agency shall verify by a follow-up inspection that all required corrections have been implemented before renewing the permit.
- (f) Within 30 calendar days of receiving an inspection report from either the local agency or the special inspector, the permit holder shall implement the corrections specified in the inspection report and comply with the permit conditions. The corrective action shall include all of the recommendations made by the local agency or special inspector. The local agency may waive the implementation of any of the special inspector's recommendations based on a demonstration by the permit holder to the local agency's satisfaction that failure to implement the recommendation will not cause an unauthorized release.
- (g) The local agency shall take appropriate enforcement action pursuant to section 25299 of the Health and Safety Code or prohibit the operation of the tank systems if the owner or operator fails to comply with the monitoring requirements in Article 3 or 4 or the reporting requirements of Article 5.
- (h) The local agency shall provide the permittee with a written list of all applicable requirements of Chapter 6.7 and 6.75 of the Health and Safety Code and these regulations.
- (i) A paper or electronic copy of the permit and all conditions and attachments, including monitoring plans, shall be readily accessible at the facility.
- (j) All primary containment shall be product-tight.
- (k) Owners and operators shall use care to prevent releases due to spilling or overfilling. Before product is delivered, owners, operator, or their agents shall ensure that the space available in the tank is greater than the volume of product to be transferred to the tank and shall ensure that the transfer operation is monitored constantly to prevent overfilling and spilling.

Authority cited: Sections 25299.3 and 25299.7, Health and Safety Code. Reference: Sections 25284, 25285, 25286, 25288, 25289, 25293, 25294 and 25404, Health and Safety Code; and 40 CFR §§ 280.30, 280.31(d), 280.32, 280.33(f), 280.34, 280.36, 280.45 and 281.32(e).

- § 2715. Certification, Licensing, and Training Requirements for Underground Storage Tank Owners, Operators, Facility Employees, Installers, Service Technicians, and Inspectors.
- (a)(1) By January 1, 2005, owners Owners or operators of underground storage tank systems shall submit through the California Environmental Reporting System or a local reporting portal, a signed statement to the local agency indicating that the owner or operator understands and is in compliance with all applicable underground storage tank requirements, and identifying the designated UST operator(s) for each facility owned or operated at all of the following times:-
 - (2)(1) Within 30 days of installing an underground storage tank system, the owner or operator, owners shall submit all of the following: a signed statement to the local agency indicating that the owner understands and is in compliance with all applicable underground storage tank requirements, and identify the designated UST operator(s) for the facility, through the California Environmental Reporting System or a local reporting portal.
 - (A) A signed "Underground Storage Tank Statement of Understanding and Compliance Form," located in Appendix X, indicating that the owner or operator understands and is in compliance with all applicable underground storage tank requirements; and
 - (B) A "Designated Underground Storage Tank Operator Identification Form," located in Appendix XI, identifying the designated UST operator(s) for the facility.
 - (2) The owner or operator shall submit a signed "Underground Storage Tank Statement of Understanding and Compliance Form," upon any change in the owner or operator which previously submitted the signed "Underground Storage Tank Statement of Understanding and Compliance Form," no later than 30 days after the change.
 - (3) The owner <u>or operator</u> shall submit <u>a "Designated Underground Storage Tank Operator Identification Form" upon</u> any change of designated UST operator(s) to the local agency through the California Environmental Reporting System or a local reporting portal no later than 30 days after the change.
- (b) Effective January 1, 2005, designated Designated UST operators shall possess a current certificate issued by the International Code Council (ICC) indicating he or she that the individual has passed the California UST System Operator exam. The individual shall renew the ICC certification, by passing the California UST System Operator exam, every 24 months.
- (c) The designated UST operator(s) shall perform monthly visual inspections of all underground storage tank systems for which they are designated. The results of each inspection shall be recorded in a monthly inspection report. The monthly visual inspection shall include, but is not limited to, the following:
 - (1) Reviewing the alarm history report or log for the previous month, and checking that each alarm condition was documented and responded to appropriately. A copy of the alarm history report or log, along with documentation describing action taken in response to any alarm(s), shall be attached to the monthly visual inspection record.
 - (2) Inspecting for the presence of hazardous substance, water, or debris in spill containers.

- (3) Inspecting for the presence of hazardous substance, water, or debris in under-dispenser containment areas, and checking that the monitoring equipment in these areas is located in the proper position to detect a leak at the earliest possible opportunity.
- (4) Inspecting for the presence ofhazardous substance, water, or debris in containment sumps that, in the past month, have had an alarm for which there is no record of a service visit, and checking that the monitoring equipment in these containment sumps is located in the proper position to detect a leak at the earliest possible opportunity.
- (5) Checking that all required testing and maintenance for the underground storage tank system have been completed, and documenting the dates these activities occurred.
- (6) Verifying that all facility employees have been trained in accordance with subdivision (f).
- (d) The designated UST operator(s) shall provide the owner or operator with a copy of each monthly inspection report and alert the owner or operator of any condition discovered during the monthly visual inspection that may require follow-up actions.
- (e) The owner or operator shall maintain a copy of the monthly inspection record and all attachments for the previous twelve months. The records shall be maintained on-site or, if approved by the local agency, off-site at a readily available location.
- (f)(c) By July 1, 2005, and every twelve months thereafter, the The designated UST operator(s) shall train facility employees for which he or she is responsible in the proper operation and maintenance of the underground storage tank system at least once every 12 months. For facility employees hired on or after July 1, 2005, before October 13, 2018, the initial training shall be conducted within 30 days of the date of hire. For individuals assuming the duties of a facility employee on or after October 13, 2018, the initial training shall be conducted before the individual performs the duties of a facility employee.
 - (1) The <u>Through a practical demonstration, the The</u> training for facility employees must <u>be</u> conducted according to include, but is not limited to, the following:
 - (A) The initial training of a facility employee shall be conducted through a site-specific practical demonstration that provides both sharing information and evaluating knowledge for responding to emergencies, leak detection monitoring alarms, spills, and overfills associated with operating the UST system and must include, but is not limited to, the following:
 - (A) (i) The operation of the underground storage tank system in a manner consistent with the facility's best management practices.
 - (B) (iii) The facility employee's role with regard to the monitoring equipment as specified in the facility's monitoring plan.
 - (C) (iii) The facility employee's role with regard to spills and overfills as specified in the facility's response plan.
 - (D) (iv) The name of the contact person(s) for emergencies and monitoring equipment alarms.

- (B) After the initial training of a facility employee, site-specific training must include, but is not limited to, the following:
 - (i) The operation of the underground storage tank system in a manner consistent with the facility's best management practices.
 - (ii) The facility employee's role with regard to the monitoring equipment as specified in the facility's monitoring plan.
 - (iii) The facility employee's role with regard to spills and overfills as specified in the facility's response plan.
 - (iv) The name of the contact person(s) for emergencies and monitoring equipment alarms.
- (2) At least one of the facility employees present during operating hours shall have current training in accordance with <u>subdivision (f) paragraph (1) above</u>. For facilities that are not routinely staffed, the designated UST operator shall implement a facility employee training program approved by the local agency.
- (3) A list of facility employees who have been trained by the designated UST operator(s), shall be maintained on-site or off-site at a readily available location, if approved by the local agency. The list shall be provided to the local agency upon request. The list shall include the dates of training for all facility employees, and the hiring dates for all facility employees hired on or after July 1, 2005.
- (4) Notwithstanding paragraph (3) above, on and after the effective date of this paragraph, upon completion of the facility employee training, the designated UST operator(s) shall provide a signed "Facility Employee Training Certificate," located in Appendix XII, to the owner or operator for facility employees that have received training. The certificates shall be maintained on-site or off-site at a readily accessible location, if approved by the local agency, and provided to the local agency upon request. The "Facility Employee Training Certificate" satisfies the requirements in paragraph (3), above.
- (g)(d) Any person(s) installing underground storage tank systems or components shall be certified or licensed by the Contractors State License Board.
- (h)(e) Any individual(s) installing underground storage tank system components shall meet the following requirements, or work under the direct and personal supervision of an individual physically present at the work site who meets the following requirements:
 - (1) The individual has been adequately trained as evidenced by a certificate of training issued by the manufacturer(s) of the underground storage tank system components. On and after July 1, 2001, this This certification shall be renewed by completion of manufacturer's refresher training at the time interval recommended by the manufacturer, or every 36 months, whichever is shorter.
 - (2) Effective January 1, 2005, the The individual shall possess a current underground storage tank system installer certificate from the International Code Council (ICC), indicating that the individual has passed the ICC UST Installation/Retrofitting exam. The

individual shall renew the ICC certification, by passing the ICC UST Installation/Retrofitting exam, every 24 months.

- (i)(f) Any individual performing the work of a service technician must meet all of the following requirements:
 - (1) Possess or be employed by a person who possesses a current Class "A" General Engineering Contractor License, C-10 Electrical Contractor License, C-34 Pipeline Contractor License, C-36 Plumbing Contractor License, or a C-61 (D40) Limited Specialty Service Station Equipment and Maintenance Contractor License issued by the Contractors State License Board, as applicable. Individuals who possess a tank testing license issued by the State Water Resources Control Board satisfy the licensing requirement of this paragraph.
 - (2) Be trained and certified by the manufacturer of the equipment as follows:
 - (A) For service technicians conducting secondary containment testing pursuant to section 2637(a), this training and certification may be obtained through the manufacturer of the secondary containment system being tested or through the developer of the testing equipment or test method being used in accordance with sections section 2637(c)., or through the manufacturer of the secondary containment system being tested, as applicable.
 - (B) For service technicians performing work on monitoring equipment, training and certification shall be obtained from the manufacturer of the monitoring equipment.
 - (C) On and after the effective date of this paragraph, for service technicians conducting spill container testing pursuant to section 2637.1, this training and certification may be obtained through the manufacturer of the spill container being tested or through the developer of the testing equipment or test method being used in accordance with section 2637.1(b).
 - (D) For service technicians conducting overfill prevention equipment inspections pursuant to section 2637.2, this training and certification may be obtained through the manufacturer of the overfill prevention equipment being inspected or through the developer of the inspection method being used, in accordance with 2637.2(b).
 - (C)(E) In the event that no training or certification exists that would satisfy the criteria of subparagraph (i)(2)(A), or (B), (C), or (D) above, the local agency may approve comparable alternate training or certification.
 - (3) Renew all training and certifications issued by the manufacturer, through completion of a manufacturer's refresher course, at the time interval recommended by the manufacturer, or every 36 months, whichever is shorter.
 - (4) Effective July 1, 2005, service Service technicians shall possess or work under the direct and personal supervision of an individual physically present at the work site who possesses a current certificate from the International Code Council (ICC), indicating he or she the individual has passed the California UST Service Technician exam. If the California UST Service Technician exam is not available by July 1, 2004, this requirement shall be effective twelve months after the date the exam is available. The

individual shall renew the ICC certification, by passing the California UST Service Technician exam, every 24 months.

- (j)(g) Local agency inspectors or special inspectors conducting underground storage tank inspections must meet the following requirements:
 - (1) Effective September 1, 2005, these individuals shall possess Possess a current inspector certificate issued by the International Code Council (ICC), indicating he or she the individual has passed the ICC California UST Inspector exam. Local agency inspectors hired on or after September 1, 2005, are subject to this requirement 180 days from the date of hire. If the ICC California UST Inspector exam is not available by September 1, 2004, this requirement shall be effective twelve months after the date the exam is available.
 - (2) These individuals shall renew Renew the California inspector certificate at least once every 24 months, by either passing the ICC California UST Inspector exam or satisfying equivalent criteria as approved by the Division of Water Quality Underground Storage Tank Program Manager.

Authority cited: Section 25299.3, Health and Safety Code. Reference: Sections 25281, 25284.1 and 25404, Health and Safety Code; and 40 CFR §§ 280.20, 280.22, 280.34, 280.42, 280.242, 280.240, 280.243 and 280.245.

§ 2716. Designated UST Operator Visual Inspection.

- (a) On and after the effective date of this section, all underground storage tank systems shall have a visual inspection performed by a designated UST operator at least once every 30 days in accordance with all subdivisions below.
- (b) The designated UST operator visual inspection shall identify compliance issues which cause the underground storage tank system to be out of compliance with this chapter and include, but not be limited to, all of the following:
 - (1) Review of the previous "Designated Underground Storage Tank Operator Visual Inspection Report" to verify each compliance issue identified by the designated UST operator during the previous visual inspection required by subdivision (a) above, has a documented action taken in response was responded to appropriately and documented;
 - (2) Review of the alarm history since the previous visual inspection required by subdivision (a) above, to verify that each alarm condition was documented and responded to appropriately;
 - (3) Review of the testing and maintenance records for the underground storage tank system to verify that all required testing and maintenance have been completed and document the dates these activities occurred;
 - (4) Review of the facility employee training records to verify that all facility employees have been trained in accordance with section 2715(c);

- (5) Inspect the spill container for damage and for the presence of any hazardous substance, water, or debris;
- (6) Inspect the fill pipe for obstructions;
- (7) Inspect the fill cap to verify it is securely on the fill pipe;
- (8) Inspect under-dispenser containment areas for damage and for the presence of any hazardous substance, water, or debris and check that the monitoring equipment in these areas is located in the proper position to detect a leak at the earliest possible opportunity; and
- (9) Inspect containment sumps that have had an alarm since the previous visual inspection required by subdivision (a) above, for which there is no record of a service visit. Inspect the containment sumps for damage and for the presence of any hazardous substance, water, or debris and check that the monitoring equipment in these containment sumps is located in the proper position to detect a leak at the earliest possible opportunity.
- (c) The results of the designated UST operator(s) visual inspection shall be recorded on the "Designated Underground Storage Tank Operator Visual Inspection Report" located in Appendix XIII. The report shall include, but not be limited to, all of the following:
 - (1) A copy of documentation demonstrating action taken in response to each compliance issue identified by the designated UST operator during the previous visual inspection required by subdivision (a) above;
 - (2) A list of each compliance issue identified by the designated UST operator during the previous visual inspection, required by subdivision (a) above, for which there is no record of action taken to correct;
 - (3) A copy of the alarm history since the previous visual inspection required by subdivision (a) above;
 - (4) A copy of documentation demonstrating action taken in response to each alarm since the previous visual inspection required by subdivision (a) above;
 - (5) A list of each alarm since the previous visual inspection, required by subdivision (a) above, for which there is no documentation-demonstrating any of the alarm condition and action taken in response; and
 - (6) A list of each area inspected and whether each area inspected is acceptable or needs follow-up action taken; and
 - (7) A list of the dates for all required testing and maintenance that has occurred.
- (d) Within 48 hours of the completion of the designated UST operator visual inspection required by subdivision (a) above, the designated UST operator shall sign and provide the owner or operator with a copy of the "Designated Underground Storage Tank Operator Visual Inspection Report." In addition, the designated UST operator shall alert the owner or operator of any compliance issues discovered during the visual inspection that may require follow-up actions such as damage to the underground storage tank system, obstructions in

the fill pipe, or liquid or debris present in under-dispenser containment areas, containment sumps, and spill containers.

- (e) Within 48 hours of being provided a signed copy of the "Designated Underground Storage Tank Operator Visual Inspection Report," the owner or operator shall provide a description of each corrective action taken or to be taken. The description shall be provided on the a copy of the "Designated Underground Storage Tank Operator Visual Inspection Report" signed by the designated UST operator and the owner or operator shall sign and date the report, acknowledging the identified compliance issues.
- (f) Owners or operators shall maintain a copy of the "Designated Underground Storage Tank Operator Visual Inspection Report" and all attachments for 12 months monthly inspection records of inspections performed before the effective date of this subdivision and all attachments for 12 months. On and after the effective date of this subdivision, copies of the "Designated Underground Storage Tank Operator Visual Inspection Report" and all attachments shall be maintained for 36 months. The records shall be maintained on-site or, if approved by the local agency, off-site at a readily accessible location.

<u>Authority cited: Section 25299.3, Health and Safety Code.</u>
Reference: Sections 25281, 25284.1 and 25404, Health and Safety Code; and 40 CFR § 280.36.

Appendix III

Examples of Quantitative Release Detection Methods for Existing Tanks

Detection Method	Performance Standards	
Automatic Tank Gauging (Monthly)	Section 2643(b)(1)	
Automatic Tank Gauging (Monthly) and		
Manual Inventory Reconciliation		
(Monthly)	Section 2643(b)(2)	
Tank Integrity Test (Annually) and		
Manual Inventory Reconciliation		
(Monthly)	Section 2643(b)(4)	
Statistical Inventory Reconciliation	Section 2643(b)(3)	
(Monthly) and Tank Integrity Testing		
(Biennially)		
Manual Tank Gauging (Weekly) and		
Tank Integrity Testing (Annually)	Section 2645	

Examples of Quantitative Release Detection Methods for Single-Walled Pressure Piping

Detection Method	Performance Standards
Automatic Line Leak Detector (Hourly)	Section 2643(c)(1)
and Automatic Electronic Line Leak	Section 2643(c)(2)
Detector (Monthly)	
Automatic Line Leak Detector (Hourly)	Section 2643(c)(1)
and Automatic Electronic Line Leak	Section 2643(c)(3)
Detector (Annually)	
Automatic Line Leak Detector (Hourly)	Section 2643(c)(1)
and Line Tightness Test (Annually)	Section 2643(c)(3)
Automatic Electronic Line Leak Detectors	Section 2643(c)(3)
(Hourly) (meets both 2643(c)(1) and (3)	000110112040(0)(0)
standards)	

Examples of Qualitative Release Detection Methods for Single-Walled Suction Piping

Line rightness rest (Thermally) and Daily Worldoning	Section 2643(d) Appendix II

Example of Qualitative Release Detection Methods for Single-Walled Gravity Flow Piping

Line Tightness Test (Biennially)	Section 2643(e)

Examples of Qualitative Release Detection Methods for Existing Tanks and Piping

Vapor Monitoring	Sections 2644(a) and (b)
or	and 2647
Ground Water Monitoring	Sections 2644(a) and (c)
	and 2648

Appendix III

Examples of Quantitative Release Detection Methods for Existing Tanks

<u>Detection Method</u>	Performance Standards
Automatic Tank Gauging (At least once every 30 days)	Section 2643(b)(1)
Statistical Inventory Reconciliation (At least once every 30 days) and	Section 2643(b)(2)
Tank Integrity Testing (At least once every 24 months)	
Continuous In-tank Leak Detection (At least once every 30 days)	Section 2643(b)(3)

<u>Examples of Quantitative Release Detection</u> <u>Methods for Single-Walled Pressurized Piping</u>

<u>Detection Method</u>	Performance Standards
Automatic Mechanical Line Leak Detector (Hourly)	Section 2643(c)(1) &
and 0.2 Gallons Per Hour Monitoring (At least once every 30 days)	Section 2643(c)(2)
Automatic Mechanical Line Leak Detector (Hourly)	Section 2643(c)(1) &
and Line Tightness Test (At least once every 12 months)	Section 2643(c)(3)
Automatic Electronic Line Leak Detector	Section 2643(c)(1) &
(Hourly) and (At least once every 30 days or 12 months)	Section 2643(c)(2) or
(meets both section 2643(c)(1) and (2) or (3))	Section 2643(c)(3)

<u>Examples of Qualitative Release Detection</u> <u>Methods for Single-Walled Suction Piping</u>

<u>Detection Method</u>	Performance Standards
Line Tightness Test (At least once every 36 months) and Daily	Section 2643(d) &
Monitoring	Appendix II

Example of Qualitative Release Detection Methods for Single-Walled Gravity Flow Piping

Detection Method	Performance Standards
Line Tightness Test (At least once every 24 months)	<u>Section 2643(e)</u>

Examples of Qualitative Release Detection Methods for Existing Tanks and Piping

<u>Detection Method</u>	Performance Standards
Vapor Monitoring (Continuous)	Sections 2644(a), (b), & 2647
Ground Water Monitoring (At least once every 30 days)	Sections 2644(a), (c), & 2648

Appendix VI

(Copies of Monitoring System Certification form and UST Monitoring Plot Plan available at http://www.waterboards.ca.gov.)

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

00.	Name:		Bldg. No.:	
Site Add	dress:		City: Zip:	
Facility	Contact Person:		Contact Phone No.: ()	
Make/M	odel of Monitoring System:		Date of Testing/Servicing://	
	ry of Equipment Tested/Certified the appropriate boxes to indicate	specific aquipment ins	spectad/serviced:	
ank ID:	the appropriate boxes to mulcate	specific equipment inc	Tank ID:	
	Gauging Probe. Mode		☐ In-Tank Gauging Probe. Model:	
	Space or Vault Sensor. Mode		Annular Space or Vault Sensor. Model:	
	Sump / Trench Sensor(s). Mode	l:	☐ Piping Sump / Trench Sensor(s). Model:	
	np Sensor(s). Mode	l:	☐ Fill Sump Sensor(s). Model:	
Mechan	nical Line Leak Detector. Mode	l:		
	nic Line Leak Detector. Mode	l:	☐ Electronic Line Leak Detector. Model:	
	verfill / High-Level Sensor. Mode		<u> </u>	
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	Space or Vault Sensor. Mode		Annular Space or Vault Sensor. Model:	
		l:	☐ Piping Sump / Trench Sensor(s). Model:	
Fill Sum	np Sensor(s). Mode	!:	☐ Fill Sump Sensor(s). Model:	
- Mechar	nical Line Leak Detector. Mode	<u>:</u>	<u> </u>	
	nic Line Leak Detector. Mode	l:	⊟ Electronic Line Leak Detector. Model:	
Tank O	verfill / High-Level Sensor. Mode	l:	□ Tank Overfill / High-Level Sensor. Model:	
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T-		
□ Yes	□ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
∀es	□ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their
		proper operation?
∀es	□ No*	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
	■ N/A	
∀es	□ No*	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects
	■ N/A	a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? (Check all that apply)
		Sump/Trench Sensors; Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor
		failure/disconnection? ☐ Yes; ☐ No.
∀es	□ No*	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention
	■ N/A	valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent
		of tank capacity does the alarm trigger?%
∀es*	□ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer
		name and model for all replacement parts in Section E, below.
∀es*	□ No	Was liquid found inside any secondary containment systems designed as dry systems? (Check all that apply) ☐ Product; ☐ Water. If
		yes, describe causes in Section E, below.
□ Yes	□ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
∀es	□ No*	Is all monitoring equipment operational per manufacturer's specifications?
In Continu	E bolow de	secriba how and when these deficiencies were or will be corrected

^{*} In Section E below, describe how and when these deficiencies were or will be corrected.

	nments: <u> </u>		 	 	 	
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Monitoring System Certification Page 2 of 4 12/07

_			☐ Check this box if no tank gauging or SIR equipment is
	instal	lled.	- Check this box is no tank gauging of one equipment is
his se	ection mu	ust be com	pleted if in-tank gauging equipment is used to perform leak detection monitoring.
_	Yes	Tollowing □ No*	checklist: Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
	Yes	□ No*	
-	Yes	□ No*	Were all items on the equipment manufacturer's maintenance checklist completed?
* In ti	he Section	on H, belo	ow, describe how and when these deficiencies were or will be corrected.
). L	ine Le a	k Detect	ors (LLD): □ Check this box if LLDs are not installed.
omp	lete the	followina	checklist:
.		o* Fo	or equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? <i>(Check all the oply)</i> Simulated leak rate: 🛘 3 g.p.h.; 🗎 0.1 g.p.h ; 🗎 0.2 g.p.h.
es.	- No	o* W	ere all LLDs confirmed operational and accurate within regulatory requirements?
S	No		as the testing apparatus properly calibrated?
)S	□ No		or mechanical LLDs, does the LLD restrict product flow if it detects a leak?
es es	□ N/ □ N/ □ N/	o* Fo	or electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
S	□ No	/A	or electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected
S	- No		or electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test
3S		/A	or electronic LLDs, have all accessible wiring connections been visually inspected?
)S	□ N/	/A o* W	er electronic LLDs, have all accessible wiring connections been visually inspected? ere all items on the equipment manufacturer's maintenance checklist completed? ew, describe how and when these deficiencies were or will be corrected.
)S	⊟ N/ ⊟ Ne he Section	/A o* W	ere all items on the equipment manufacturer's maintenance checklist completed? w, describe how and when these deficiencies were or will be corrected.
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UST Monitoring Site Plan

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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.

Monitoring System Certification Page 4 of 4 12/07

Appendix VI

UNDERGROUND STORAGE TANK

MONITORING SYSTEM CERTIFICATION FORM (Page 1 of 6)

For Use by All Jurisdictions within the State of California

This form must be used to document testing and servicing of monitoring equipment. A copy of this form must be provided to the tank system owner or operator. The owner or operator must submit a copy of this form to the local agency regulating underground storage tank systems within 30 days of the date of the system certification.

underground storage tank systems within 30 days of the date of the system		lon.				
I. FACILITY INFORMATION	N.					
CERCID #		DATEO	CVCTEM CERTIFICATIO	N.I.		
CERS ID #		DATE O	SYSTEM CERTIFICATIO	++		
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As.)		I	DUIL DING #			
DOSINESS NAME (SAME AS FACILITY NAME OF DBA - DOING BUSINESS AS.)			BUILDING #			
DUONIEGO OITE ADDDEGO	OIT) (710.00	<u> </u>		
BUSINESS SITE ADDRESS	<u>CITY</u>		ZIP CO	₽E		
FACILITY CONTACT PERSON		<u>C</u> (ONTACT PHONE #			
		4				
		<u> </u>				
II. UNDERGROUND STORAGE TANK SERVICE	TECHNIC	TAN INE	<u>ORMATION</u>			
NAME OF COMPANY PERFORMING CERTIFICATION		±	PHONE ()			
ADDRESS OF COMPANY PERFORMING CERTIFICATION		I				
ADDRESS OF COMPANY FERFORMING CERTIFICATION						
NAME OF UST SERVICE TECHNICIAN PERFORMING CERTIFICATION						
CONTRACTOR/TANK TESTER LICENSE # ICC CERTIFICATION #		ICC CEF	RTIFICATION EXPIRATION	LDAT	₣	
		<u> </u>				
MONITORING SYSTEM TRAINING AND CERTIFICATIONS (List applicable certifications.)					
	-					
III. RESULTS OF TESTING/SEF	VICING					
Indicate and attach the following reports if the monitoring equipment is cap	able of ge	merating	either.	V	N.	NI A
MONITORING SYSTEM SET UP	AL ADM LIIC	TODY DE	DODTT	¥	N	NA
	ALARM HIS	HUKY KE	PURII			
WAS ANY MONITORING EQUIPMENT REPLACED?						
(If "Yes," identify specific sensors, probes, or other equipment replaced and list the manufa	cturer name	and mode	ol for all replacement parts			
	otaror manno	ana moac	n tor an replacement parte			
in section IV. below.)						
WAS DAMAGE, DEBRIS, OR LIQUID FOUND INSIDE ANY SECONDARY CONTAINMEN	T SYSTEMS	<u>\$2</u>				
	1 OTOTEWN	<u> </u>				
(If "Yes," describe what was found in section IV below.)						
IS ALL MONITORING EQUIPMENT OPERATIONAL PER MANUFACTURER'S SPECIFIC	ATIONS2					
	ATTO NO:					
(If "No," describe why in section IV below.)						
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UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 2 of 6)

VI. INVENTORY OF EQUIPMENT CERTIFIED

A separate Monitoring System Certification Form must be prepared for each monitoring system control panel.

MAKE/MODEL OF MONITORING SYSTEM

SOFTWARE VERSION INSTALLED

Check the appropriate boxes to ind	i cate specific equipment li	nspected/serviced.	
TANK ID#	<u>A-</u>	TANK ID #	<u>₩</u>
(By tank number, stored product, etc.) MONITORING METHOD	DEVICE MODEL#	(By tank number, stored product, etc.) MONTORING METHOD	DEVICE MODEL#
·	DEVICE MODEL#		DE VICE WODEL#
<u>FANK</u> ⊒ IN-TANK GAUGING		TANK □ IN-TANK GAUGING	
ANNULAR SPACE or VAULT SENSOR		□ ANNULAR SPACE or VAULT SENSOR	
VACUUM/PRESSURE		□ VACUUM/PRESSURE	
PRODUCT PIPING		PRODUCT PIPING	
MECHANICAL LINE LEAK DETECTOR		■ MECHANICAL LINE LEAK DETECTOR	
ELECTRONIC LINE LEAK DETECTOR		■ ELECTRONIC LINE LEAK DETECTOR	
UACUUM/PRESSURE (PIPING)		□ VACUUM/PRESSURE (PIPING)	
□ SUMP SENSOR		□ SUMP SENSOR	
□ VACUUM/PRESSURE (SUMP)			
FILL PIPING		FILL PIPING	
UACUUM/PRESSURE (PIPING)		□ VACUUM/PRESSURE (PIPING)	
□ SUMP SENSOR		<u>∃ SUMP SENSOR</u>	
□ VACUUM/PRESSURE (SUMP)			
VENT PIPING		VENT PIPING	
□ VACUUM/PRESSURE (PIPING)		□ VACUUM/PRESSURE (PIPING)	
<u>□ SUMP SENSOR</u>		□ SUMP SENSOR	
VACUUM/PRESSURE (SUMP)	_	□ VACUUM/PRESSURE (SUMP)	
VAPOR RECOVERY PIPING		VAPOR RECOVERY PIPING	
<u> VACUUM/PRESSURE (PIPING)</u>			
□=SUMP SENSOR	1	□ SUMP SENSOR	
□ VACUUM/PRESSURE (SUMP)		□ VACUUM/PRESSURE (SUMP)	
TANK ID #	<u>C.</u>	TANK ID#	D.
(By tank number, stored product, etc.)		(By tank number, stored product, etc.)	
MONITORING METHOD	DEVICE MODEL#	MONTORING METHOD	DEVICE MODEL#
TANK		TANK	
□ IN-TANK GAUGING		□ IN-TANK GAUGING	
ANNULAR SPACE or VAULT SENSOR		□ ANNULAR SPACE or VAULT SENSOR	
□ VACUUM/PRESSURE		□ VACUUM/PRESSURE	
PRODUCT PIPING		PRODUCT PIPING	
MECHANICAL LINE LEAK DETECTOR		□ MECHANICAL LINE LEAK DETECTOR	
ELECTRONIC LINE LEAK DETECTOR		□ ELECTRONIC LINE LEAK DETECTOR	
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□ SUMP SENSOR		□ SUMP SENSOR	
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⊔ VACUUM/PRESSURE (SUMP)		□ VACUUM/PRESSURE (SUMP)	
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UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 3 of 6)											
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VENT/TRANSITION SUMP ID	DEVICE MODEL #	VENT/TRANSITION SUMP ID	DEVICE MODEL #								
MONITORING METHOD	DEVICE MODEL#	MONTORING METHOD	DEVICE MODEL#								
□ SUMP SENSOR		SUMP SENSOR									
□ VACUUM/PRESSURE	4.10	<u> □ VACUUM/PRESSURE</u>									
UNDER-DISPENSER CONTAINMENT ID	1/2	UNDER-DISPENSER CONTAINMENT ID	3/4								
MONITORING METHOD	DEVICE MODEL#	MONTORING METHOD	DEVICE MODEL#								
□ ELECTRONIC SENSOR		ELECTRONIC SENSOR									
□ MECHANICAL DEVICE		MECHANICAL DEVICE									
<u> </u>		<u> </u>									
UNDER-DISPENSER CONTAINMENT ID	<u>5/6</u>	UNDER-DISPENSER CONTAINMENT ID	7/8								
MONITORING METHOD	DEVICE MODEL#	MONTORING METHOD	DEVICE MODEL#								
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□ MECHANICAL DEVICE		MECHANICAL DEVICE									
□ VACUUM/PRESSURE		<u>□ VACUUM/PRESSURE</u>									
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□ ELECTRONIC SENSOR		ELECTRONIC SENSOR									
UNDER-DISPENSER CONTAINMENT ID	13/14	UNDER-DISPENSER CONTAINMENT ID	15/16								
MONITORING METHOD	DEVICE MODEL#	MONTORING METHOD	DEVICE MODEL#								
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<u> </u>		□ VACUUM/PRESSURE									
MONITORING METHOD	DEVICE MODEL#	MONTORING METHOD	DEVICE MODEL#								
☐ OTHER (Specify in section VII.)		☐ OTHER (Specify in section VII.)									
	or dispensers than this for	y this monitoring system control pane m accommodates, additional copies o									
		IMENTS									
Use this section to provide addition	ial comments about the inv	Ontory of the equipment cortifical									
											

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 4 of 6)

VIII. MONITORING SYSTEM AND PROGRAMMING			
This section must be completed if a monitoring panel is used to perform leak detection monitoring.	¥	N	NA
IS THE VISUAL AND AUDIBLE ALARM OPERATIONAL?			
WERE ALL SENSORS VISUALLY INSPECTED FOR KINKS AND BREAKS IN THE CABLES AND FOR RESIDUAL BUILDUP TO			
ENSURE THAT FLOATS MOVE FREELY, FUNCTIONALLY TESTED, AND CONFIRMED OPERATIONAL?			
WERE ALL SENSORS INSTALLED AT LOWEST POINT OF SECONDARY CONTAINMENT AND POSITIONED SO THAT OTHER EQUIPMENT WILL NOT INTERFERE WITH THEIR PROPER OPERATION?			
WAS MONITORING SYSTEM SET-UP REVIEWED TO ENSURE PROPER SETTINGS?			
WAS THE MONITORING PANEL'S BACKUP BATTERY VISUALLY INSPECTED, FUNCTIONALLY TESTED, AND CONFIRMED			
OPERATIONAL?			
DOES THE FLOW OF FUEL STOP AT THE DISPENSERS IF A LEAK IS DETECTED IN THE UNDER-DISPENSER CONTAINMENT?			
DOES THE TURBINE AUTOMATICALLY SHUT DOWN IF THE PIPING SECONDARY CONTAINMENT MONITORING SYSTEM FAILS			
TO OPERATE OR IS ELECTRICALLY DISCONNECTED?			
DOES THE TURBINE AUTOMATICALLY SHUT DOWN IF THE PIPING SECONDARY CONTAINMENT MONITORING SYSTEM			
DETECTS A LEAK? WHICH SENSORS INITIATE POSITIVE SHIT DOWN? (Check all that apply) SLIMB LINDER DISPENSED CONTAINMENT			
WHICH SENSORS INITIATE POSITIVE SHUT DOWN? (Check all that apply.) UNDER-DISPENSER CONTAINMENT			
IF ALARMS ARE RELAYED TO A REMOTE MONITORING STATION, IS ALL COMMUNICATIONS EQUIPMENT (E.G. MODEM) OPERATIONAL?			
For any answer of "N" above, describe below, how and when these deficiencies were or will be corrected.		L	
IX. COMMENTS			
THE STATE OF THE S			
			=
			_
X. <u>IN-TANK GAUGING TESTING</u>			
☐ CHECK THIS BOX IF TANK GAUGING IS USED ONLY FOR INVENTORY CONTROL. (Do not complete this section.)			
CHECK THIS BOX IF NO TANK GAUGING EQUIPMENT IS INSTALLED. (Do not complete this section.)	¥	N	NA
This section must be completed if in tank gauging is used to perform leak detection monitoring.			
HAS ALL INPUT WIRING BEEN INSPECTED FOR KINKS AND BREAKS IN THE CABLES AND FOR PROPER ENTRY AND			
TERMINATION, INCLUDING TESTING FOR GROUND FAULTS? WERE ALL TANK GAUGING PROBES VISUALLY INSPECTED FOR DAMAGE AND RESIDUE BUILDUP TO ENSURE THAT FLOATS			
MOVE FREELY, FUNCTIONALLY TESTED, AND CONFIRMED OPERATIONAL?			
WAS ACCURACY OF SYSTEM PRODUCT LEVEL READINGS TESTED?			
WAS ACCURACY OF SYSTEM WATER LEVEL READINGS TESTED?			
Who hooding of official whitek elver herbidge fedieb.			
WEDE ALL DROBES DEINSTALLED DROBEDLY?			
WERE ALL PROBES REINSTALLED PROPERLY?			
WERE ALL ITEMS ON THE EQUIPMENT MANUFACTURER'S MAINTENANCE CHECKLIST COMPLETED?			
WERE ALL ITEMS ON THE EQUIPMENT MANUFACTURER'S MAINTENANCE CHECKLIST COMPLETED? For any answer of "N" above, describe below, how and when these deficiencies were or will be corrected.			
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UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 5 of 6)

		XII. LINE LEAK DETECTORS (LLD) TESTI	NC									
AND ALEAY SMILLATED TOVERIEY LID DESCROMMANCES (Chock at this anow). SMILLATED LAX PART YERRIED. (Chock at this anow). SMILLATED LAX PART YERRIED. (Chock at this anow). SMILLATED LAX PART YERRIED. (CAPTURE TESTING APPARATUS PROPERLY CALIBRATED? (CORRECTIONCE LIDS. DOES THE LUB RESTRICT THE FLOW OF PRODUCT WHEN A LEAK IS DETECTED? (CREECTRONIC LIDS. DOES THE TURBINE AUTOMATICALLY SHUT OF WHEN A LEAK IS DETECTED? (CREECTRONIC LIDS. DOES THE TURBINE AUTOMATICALLY SHUT OF FLOW PRODUCT WHEN A LEAK IS DETECTED? (CREECTRONIC LIDS. DOES THE TURBINE AUTOMATICALLY SHUT OF FLOW PRODUCT WHEN A LEAK IS DETECTED? (CREECTRONIC LIDS. DOES THE TURBINE AUTOMATICALLY SHUT OF FLOW PROTION OF THE MONITORING SYSTEMS IN THE WORLD WAS AN AUTOMATICALLY SHUT OF FLOW PROTION OF THE MONITORING SYSTEM WAS AND AUTOMATICALLY SHUT OF FLOW PROTION OF THE MONITORING SYSTEM WAS AND AUTOMATICALLY SHUT OF FLOW PORTION OF THE MONITORING SYSTEM WAS AND AUTOMATICALLY SHUT OF FLOW PORTION OF THE MONITORING SYSTEM WAS AND AUTOMATICALLY SHUT OF FLOW PORTION OF THE MONITORING SYSTEM WAS AND AUTOMATICALLY INSPECTED FOR KINKS AND AUTOMATICALLY INSPECTED. (CHECK THIS BOX IF VACUUM/PRESSURE MONITORING EQUIPMENT TESTING (CHE	•				2	∠	М	NΑ				
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UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 6 of 6)

XVI. UST MONITORING SITE PLAN

DATE SITE MAP WAS PREPARED:

If you already have a site plan that shows all required information, you may include it, rather than this page, with your Monitoring System Certification Form. The site plan must show the general layout of tanks and piping and clearly identify locations of the following equipment, if installed: 1) monitoring system control panels; 2) in tank liquid level probes (if used for leak detection); 3) sensors monitoring tank annular spaces; 4) sensor menitoring product piping; 5) sensors monitoring fill piping; 6) sensors monitoring vent piping; 7) sensors monitoring vapor recovery piping; 8) sensors monitoring vent/transition sump; 9) sensors monitoring under dispenser containment; 10) line leak detectors; and 11) any other monitored secondary containment areas.

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UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 1 of 6)

This form must be used to document testing and servicing of underground storage tank (UST) monitoring equipment. A copy of this form must be provided to the UST owner or operator. The owner or operator must submit a copy of this form to the local agency regulating the USTs within 30 days of the date of the monitoring system certification.

	I. <u>FACILITY INFORMATION</u>	<u>NC</u>					
<u>CERS ID</u>			Date of M	Ionitoring System	n Certificat	<u>ion</u>	
Business Name (Same as Facility Name or DB	A – Doing Business As.)			Building #			
Business Site Address		<u>City</u>			ZIP Code		
II. <u>UNDERGRO</u>	UND STORAGE TANK SERVICE	TECHNICI	AN INF	ORMATION			
Name of Company Performing the Certification			Pho (one #)			
Mailing Address							
Name of UST Service Technician Performing th	ne Certification (Print as shown on the ICC	Certification.)					
Contractor/Tank Tester License #	ICC Certification #		ICC Cert	fication Expiratio	n Date		
Monitoring System Training and Certifications (List all applicable certifications.)				Expiration	n Date	
III.	RESULTS OF TESTING/SE						ı
Indicate and attach the following reports if t		<u>generating ei</u> ☐ Alarm Histo			<u>Y</u>	N	NA
Monitoring System Set-up Was any monitoring equipment replaced? (If "Yes," identify the specific devices replaced a	ction IV helow)						
Was damage, debris, or liquid found inside any (If "Yes," describe what was found in section IV	secondary containment systems?	<u>ropidoomone p</u>	ourto iii oct	<u>stion iv</u> . <u>soiowj</u>			
Is all monitoring equipment operational per mar (If "No," describe why in section IV below.)	<u>.</u>						
	IV. <u>COMMENTS</u>				l .		I
If directed to use this section, describe how and	d when the issues were or will be corrected	<u>1.</u>					
V. <u>CERTIFICATION B</u> I hereby certify that the equipment iden	Y UST SERVICE TECHNICIAN C				alifornia	Code	of
Regulations, title 23, division 3, chapte this certification is information (e.g., mato verify that this information and the substitution of the s	r 16, section 2638 and all information and a section 2638 and all information and a section and a se	on contained g system se	d herein t-up, ala	is true and acc	curate. A	Attach	ed to
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UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 2 of 6)

INVENTORY OF EQUIPMENT CERTIFIED

A separate Monitoring System Certification Form must be prepared for each monitoring system control panel.

Make of Monitoring System Control Panel	Model of Monitoring System Control Panel Model of Monitoring System Control Panel		Software Version Installed
Check the appropriate boxes to indicate	specific equipment inspec	tad/sarvicad	
Monitoring Device Used	Device Model #	Monitoring Device Used	Device Model #
Tank ID:	DCTIOC MODEL II	Tank ID:	DOVIDO INDUCE II
(By tank number, stored product, etc.)		(By tank number, stored product, etc.	<u>:.)</u>
☐ In-tank Gauging (SW Tank)		☐ In-tank Gauging (SW Tank)	
Annular Space or Vault Sensor		Annular Space or Vault Sensor	
☐ VPH Sensor		□ <u>VPH Sensor</u>	
Product Piping		PRODUCT PIPING Product Piping	
Mechanical LLD		Mechanical LLD	
Electronic LLD		<u>Electronic LLD</u>	
VPH Sensor (Piping)		☐ <u>VPH Sensor (Piping)</u>	
Sump Sensor		Sump Sensor	
☐ VPH Sensor (Sump)			
Fill Piping		FILL PIPING Fill Piping	
VPH Sensor (Piping)			
Sump Sensor		Sump Sensor	
VPH Sensor (Sump)		VPH Sensor (Sump)	
Vent Piping		VENT PIPING Vent Piping	
☐ VPH Sensor (Piping)		VPH Sensor (Piping)	
Sump Sensor		Sump Sensor	
☐ VPH Sensor (Sump)		☐ VPH Sensor (Sump)	
Vapor Recovery Piping		Vapor Recovery Piping	
☐ VPH Sensor (Piping)		☐ VPH Sensor (Piping)	
Sump Sensor		Sump Sensor	
VPH Sensor (Sump)		VPH Sensor (Sump)	
Monitoring Device Used	Device Model #	Monitoring Device Used	Device Model #
Tank ID:	DCTIDE INDUCT II	Tank ID:	DOVIDO INDUCE II
(By tank number, stored product, etc.)		(By tank number, stored product, etc.	:.)
☐ In-tank Gauging (SW Tank)		☐ In-tank Gauging (SW Tank)	
Annular Space or Vault Sensor		Annular Space or Vault Sensor	
☐ VPH Sensor		□ VPH Sensor	
Product Piping		Product Piping	
Mechanical LLD		Mechanical LLD	
☐ Electronic LLD		☐ Electronic LLD	
VPH Sensor (Piping)		VPH Sensor (Piping)	
Sump Sensor		Sump Sensor	
☐ VPH Sensor (Sump)		☐ VPH Sensor (Sump)	
Fill Piping		Fill Piping	
☐ VPH Sensor (Piping)		☐ VPH Sensor (Piping)	
Sump Sensor		Sump Sensor	
☐ VPH Sensor (Sump)		VPH Sensor (Sump)	
Vent Piping		Vent Pipina	
☐ VPH Sensor (Piping)		☐ VPH Sensor (Piping)	
Sump Sensor		Sump Sensor	
□ VPH Sensor (Sump)		VPH Sensor (Sump)	
Vapor Recovery Piping		Vapor Recovery Piping	
VPH Sensor (Piping)		VPH Sensor (Piping)	
Sump Sensor		Sump Sensor	
□ VPH Sensor (Sump)		☐ VPH Sensor (Sump)	

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 3 of 6)							
Monitoring Device Used Device Model #	Monitoring Device Used	Device Model #					
Vent/Transition Sump ID:	Vent/Transition Sump ID:						
Sump Sensor	Sump Sensor						
□ VPH Sensor	□ VPH Sensor						
UDC ID:	UDC ID:						
☐ Electronic Sensor	☐ Electronic Sensor						
☐ Mechanical Device	☐ Mechanical Device						
□ VPH Sensor	□ VPH Sensor						
UDC ID:	UDC ID:						
☐ Electronic Sensor	☐ Electronic Sensor						
☐ Mechanical Device	☐ Mechanical Device						
□ VPH Sensor	□ VPH Sensor						
UDC ID:	UDC ID:						
☐ Electronic Sensor	☐ Electronic Sensor						
☐ Mechanical Device	Mechanical Device						
□ VPH Sensor	☐ VPH Sensor						
UDC ID:	UDC ID:						
☐ Electronic Sensor	☐ Electronic Sensor						
Mechanical Device	☐ Mechanical Device						
□ VPH Sensor	□ VPH Sensor						
Other Monitored Component ID:	Other Monitored Component ID:						
Other (Specify in section VII.)	Other (Specify in section VII.)						
Other Monitored Component ID:	Other Monitored Component ID:						
Other (Specify in section VII.)	Other (Specify in section VII.)						
Other Monitored Component ID:	Other Monitored Component ID: Other (Specify in section VII.)						
Other (Specify in section VII.)							
_	accommodates, additional copies of these pa	ages may be attached.					
Use this section to provide any additional comments about the invento	ory of the equipment certified.						

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 4 of 6) **MONITORING SYSTEM AND PROGRAMMING** This section must be completed if a monitoring panel is used to perform leak detection monitoring. N NA Are the visual and audible alarms operational? Were all sensors visually inspected for kinks and breaks in the cables and for residual buildup to ensure that floats move freely, functionally tested, and confirmed operational? Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their П proper operation? Was monitoring system set-up reviewed to ensure proper settings? Was the monitoring panel's backup battery visually inspected, functionally tested, and confirmed operational? Does the flow of fuel stop at the dispenser if a leak is detected in the under-dispenser containment? Does the turbine automatically shut down if the piping secondary containment monitoring system fails to operate or is electrically disconnected? Does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak? Which sensors initiate positive shut down? (Check all that apply.) ☐ Sump Under-dispenser containment If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational? For any answer of "N" above, describe in section IX- how and when these deficiencies were or will be corrected. **COMMENTS** IX. **IN-TANK GAUGING TESTING** Check this box if tank gauging is used only for inventory control. (Do not complete this section.) Check this box if NO tank gauging equipment is installed. (Do not complete this section.) <u>NA</u> <u>Y</u> N This section must be completed if in-tank gauging is used to perform leak detection monitoring. Has all input wiring been inspected for kinks and breaks in the cables and for proper entry and termination, including testing for ground П faults? Were all in-tank gauging probes visually inspected for damage and residue buildup to ensure that floats move freely, functionally tested, and confirmed operational? Was accuracy of system's product level readings tested? Was accuracy of system's water level readings tested? Were all probes reinstalled properly? \Box П Were all items on the equipment manufacturer's maintenance checklist completed? For any answer of "N" above, describe in section XI. how and when these deficiencies were or will be corrected. XI. **COMMENTS**

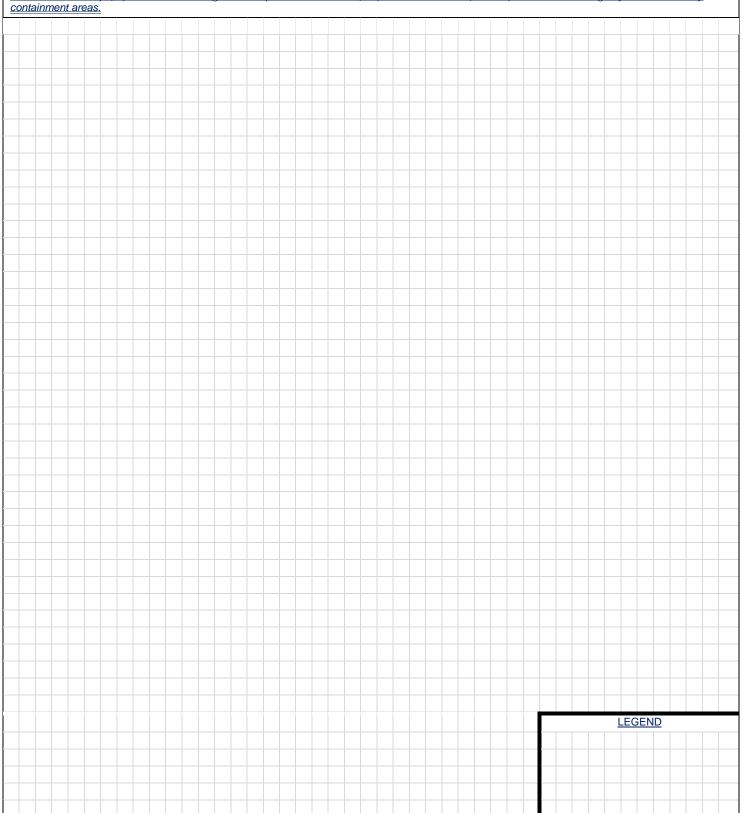
UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 5 of 6) XII. LINE LEAK DETECTOR TESTING Check this box if line leak detectors (LLD) are NOT installed. (Do not complete this section.) Y NA Ν This section must be completed if LLDs are installed. Was a leak simulated to verify LLD performance? (Check all that apply.) Simulated leak rate verified: 3 GPH □ 0.1 GPH □ 0.2 GPH Was the testing apparatus properly calibrated? For emergency generator tank systems, does the LLD create an audible and visual alarm when a leak is detected? П П П For mechanical LLDs, does the LLD restrict the flow through the pipe when a leak is detected? For electronic LLDs, does the turbine automatically shut off when a leak is detected? For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected? For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test? For electronic LLDs, have all accessible wiring connections been visually inspected for kinks and breaks? \Box П П Were all items on the equipment manufacturer's maintenance checklist completed? Were all LLDs confirmed operational within regulatory requirements? For any answer of "N" above, describe in section XIII. how and when these issues were or will be corrected. XIII. **COMMENTS** VACUUM / PRESSURE/ HYDROSTATIC MONITORING EQUIPMENT TESTING XIV. Check this box if VPH monitoring is **NOT** used. (Do not complete this section.) This section must be completed if VPH monitoring is used to perform leak detection monitoring. System Type (Mark all that apply.) Vacuum Pressure Hydrostatic Sensor Functionality Interstitial Communication Sensor ID Component(s) Monitored by this Sensor Test Pass ☐ Fail Pass ☐ Fail Pass Fail Pass Fail Pass Fail Pass Fail Pass ☐ Fail Pass ☐ Fail Pass Fail Pass Fail Pass ☐ Fail Pass ☐ Fail Fail Pass Fail Pass ☐ Pass ☐ Fail ☐ Pass Fail Pass Fail Pass ☐ Fail Pass Fail Pass Fail Fail Pass Pass Fail Pass Fail Pass Fail Simulated leak at far ends of the interstitial space. ■ Visual Inspection How was interstitial communication verified? Other (Describe the method in section XV- below.) Gauge Was the vacuum or pressure restored to operating levels in all interstitial spaces? Yes No (Describe the reason in section XV- below.) For any answer of "FAIL" above, describe in section XV- how and when these issues were or will be corrected. XV. COMMENTS

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION FORM (Page 6 of 6)

XVI. MONITORING SITE PLAN

Date site map was prepared:

If you already have a site plan that shows all required information, you may include it, rather than this page, with your Monitoring System Certification Form. The site plan must show the general layout of tanks and piping and clearly identify locations of the following equipment, if installed: 1) monitoring system control panels; 2) in-tank liquid level probes (if used for leak detection); 3) devices monitoring tank annular spaces or vault; 4) devices monitoring product piping; 5) devices monitoring fill piping; 6) devices monitoring vent/transition sumps; 9) devices monitoring under-dispenser containment; 10) line leak detectors; and 11) devices monitoring any other secondary containment areas.



Appendix VII

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 1 of 4) **TYPE OF ACTION INSTALLATION TEST** □ REPAIR TEST **□ SIX MONTH TEST 36 MONTH TEST FACILITY INFORMATION** DATE OF TEST CERS ID# BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) **BUSINESS SITE ADDRESS** CITY **ZIP CODE** II. UNDERGROUND STORAGE TANK SERVICE TECHNICIAN INFORMATION NAME OF UST SERVICE TECHNICIAN PERFORMING TEST (As shown on the ICC certification.) PHONE (**CONTRACTOR/TANK TESTER LICENSE #** ICC CERTIFICATION # ICC CERTIFICATION EXPIRATION DATE SUMMARY OF SECONDARY CONTAINMENT TESTING RESULTS C. ₽, TANK ID # (By tank number, stored product, etc.) **TANK CONTAINMENT** TIGHTNESS TEST PASS FAIL NA PASS FAIL N/A PASS FAIL N/A PRODUCT/FILL PIPING CONTAINMENT PASS FAIL N/A TIGHTNESS TEST RESULT PASS FAIL NA PASS FAIL N/A **COMMUNICATION TEST RESULT** PASS FAIL N/A PASS FAIL N/A PASS FAIL NA **VENT PIPING-CONTAINMENT** TIGHTNESS TEST RESULTS PASS FAIL NA PASS FAIL NA PASS FAIL NA **COMMUNICATION TEST RESULT** PASS FAIL NA PASS FAIL NA PASS FAIL NA VAPOR RECOVERY PIPING-CONTAINMENT PASS FAIL NA **TIGHTNESS TEST RESULTS** PASS FAIL NA PASS FAIL - NA COMMUNICATION TEST RESULT PASS FAIL PASS FAIL NA PASS FAIL NA $\neg NA$ TURBINE/PRODUCT PIPING SUMP TIGHTNESS TEST RESULT PASS FAIL NA PASS FAIL NA PASS FAIL NA **FILL RISER SUMP** TIGHTNESS TEST RESULT PASS FAIL NA PASS FAIL NA PASS FAIL NA **VENT/TRANSITION SUMP ID #** b. a. G. TIGHTNESS TEST RESULT PASS FAIL NA PASS FAIL NA PASS FAIL NA 1/2 9/10 17/18 **UNDER-DISPENSER CONTAINMENT ID # TIGHTNESS TEST RESULT** PASS FAIL NA PASS FAIL NA PASS FAIL NA 11/12 19/20 **UNDER-DISPENSER CONTAINMENT ID #** TIGHTNESS TEST RESULT PASS FAIL NA PASS FAIL NA PASS FAIL NA 5/6 13/14 21/22 UNDER-DISPENSER CONTAINMENT ID # TIGHTNESS TEST RESULT PASS FAIL NA PASS FAIL NA PASS FAIL NA 7/8 15/16 23/24 **UNDER-DISPENSER CONTAINMENT ID # TIGHTNESS TEST RESULT** PASS FAIL NA PASS FAIL NA PASS FAIL NA Any items marked "Fail" or "N/A" must be explained in their respective "COMMENTS" section. IV. CERTIFICATION OF UST SERVICE TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING I horeby certify that the secondary containment was tested in accordance with California Code of Regulations, title 23, division 3, chapter 16, section 2637 and all the information contained in this report is true and accurate. **UST SERVICE TECHNICIAN SIGNATURE**

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 2 of 4) TANK SECONDARY CONTAINMENT INFORMATION A. <u>G-</u> ₽. **MANUFACTURER TEST METHOD USED: ■ MANUFACTURER GUIDELINES (Specify) □ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) ENGINEERED METHOD (Specify)** # OF PAGES Attach the testing procedures and all documentation required to determine the results. TANK SECONDARY CONTAINMENT TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) VL COMMENTS Provide any additional comments here. VII. PRODUCT/FILL PIPING SECONDARY CONTAINMENT INFORMATION **MANUFACTURER** TEST METHOD USED: MANUFACTURER GUIDELINES (Specify) **□ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) ■ ENGINEERED METHOD (Specify)** # OF PAGES Attach the testing procedures and all documentation required to determine the results. PRODUCT/FILL PIPING SECONDARY CONTAINMENT TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) **COMMNICATION VERIFICATION METHOD USED: VIII. COMMENTS** Provide any additional comments here. VENT PIPING SECONDARY CONTAINMENT TESTING INFORMATION IX. <u>C.</u> **MANUFACTURER** <u>A.</u> TEST METHOD USED: MANUFACTURER GUIDELINES (Specify) **□ INDUSTRY CODE OR ENGINEERING STANDARD (Specify)** ENGINEERED METHOD (Specify) **# OF PAGES** Attach the testing procedures and all documentation required to determine the results. VENT PIPING SECONDARY CONTAINMENT TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) COMMNICATION_METHOD USED: Y COMMENTS Provide any additional comments here.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 3 of 4) XI. VAPOR RECOVERY PIPING SECONDARY CONTAINMENT TESTING INFORMATION ₿. **MANUFACTURER** €. TEST METHOD USED: **■ MANUFACTURER GUIDELINES (Specify) □ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) ENGINEERED METHOD (Specify) # OF PAGES** Attach the testing procedures and all documentation required to determine the results. VAPOR RECOVERY PIPING SECONDARY CONTAINMENT TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) COMMNICATION COMMUNICATION VERIFICATION METHOD USED: XII. COMMENTS Provide any additional comments here. XIII. TURBINE/PRODUCT PIPING SUMP TESTING INFORMATION **MANUFACTURER TEST METHOD USED:** MANUFACTURER GUIDELINES (Specify) **■ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) ■ ENGINEERED METHOD (Specify) # OF PAGES** Attach the testing precedures and all decumentation required to determine the results. TURBINE/PIPING SUMP TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) XIV. COMMENTS Provide any additional comments here. XV. FILL RISER SUMP TESTING INFORMATION **MANUFACTURER** <u>G-</u> **TEST METHOD USED:** MANUFACTURER GUIDELINES (Specify) □ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) **■ ENGINEERED METHOD (Specify)** # OF PAGES Attach the testing procedures and all documentation required to determine the results. FILL RISER SUMP TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) XVI. COMMENTS Provide any additional comments here.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 4 of 4) **VENT/TRANSITION SUMP TESTING INFORMATION** XVII. **MANUFACTURER TEST METHOD USED: ■ MANUFACTURER GUIDELINES (Specify) □ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) ENGINEERED METHOD (Specify)** # OF PAGES Attach the testing procedures and all documentation required to determine the results. PIPING TRANSITION SUMP TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) XVIII. **COMMENTS** Provide any additional comments. UNDER-DISPENSER CONTAINMENT TESTING INFORMATION 1/2 9/10 17/18 11/12 19/20 3/4 **MANUFACTURER** 5/6 13/14 21/22 7/8 15/16 23/24 TEST METHOD USED: **■ MANUFACTURER GUIDELINES (Specify)** ☐ INDUSTRY CODE OR ENGINEERING STANDARD (Specify) **■ ENGINEERED METHOD (Specify)** # OF PAGES Attach the testing procedures and all documentation required to determine the results. UNDER-DISPENSER CONTAINMENT TESTING TRAINING AND CERTIFICATIONS (List applicable certifications.) XX. **COMMENTS** Provide any additional comments here.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 1 of 6)						
Type of Action Installation Test	☐ <u>Repair</u>	Test ☐ Six M	onth Test	36 Month Test		
	I. <u>FACILITY</u>	<u>INFORMATION</u>				
<u>CERS ID</u>			Date of Secondary Cont	ainment Test		
Business Name (Same as Facility Name or DBA-D	oing Business As)					
Business Site Address		<u>City</u>		ZIP Code		
II. <u>UNDERGROUND S</u>	TORAGE TANK SE	RVICE TECHNICIAI	N INFORMATION	<u> </u>		
Name of UST Service Technician Performing the T	est (Print as shown on th	e ICC Certification.)	<u>Phone #</u> ()			
Contractor/Tank Tester License #	ICC Certification #		ICC Certification Expirat	ion Date		
III. <u>Summar</u>		CONTAINMENT TE				
Tank ID: (By tank number, stored product, etc.)	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>		
Tank Containment						
Tightness Test Result	Pass Fail NA	Pass Fail NA	□ Pass □ Fail □ NA	Pass Fail NA		
Product Piping Containment						
Tightness Test Result	□ <u>Pass</u> □ <u>Fail</u> □ <u>NA</u>	□ <u>Pass</u> □ <u>Fail</u> □ <u>NA</u>	□ Pass □ Fail □ NA	Pass Fail NA		
Communication Test Result	Pass Fail NA	Pass Fail NA	Pass Fail NA	Pass Fail NA		
Remote Fill Piping Containment						
Tightness Test Result	Pass Fail NA	Pass Fail NA	Pass Fail NA	Pass Fail NA		
Communication Test Result	□ Pass □ Fail □ NA	Pass Fail NA	□ Pass □ Fail □ NA	Pass Fail NA		
Vent Piping Containment						
Tightness Test Result	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	Pass Fail NA	Pass Fail NA		
Communication Test Result	Pass Fail NA	Pass Fail NA	Pass Fail NA	Pass Fail NA		
Vapor Recovery Piping Containment						
<u>Tightness Test Result</u>	Pass Fail NA	Pass Fail NA	Pass Fail NA	Pass Fail NA		
Communication Test Result	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	Pass Fail NA		
Turbine / Product Piping Sump						
Tightness Test Result	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	Pass Fail NA	Pass Fail NA		
Fill Riser Sump						
Tightness Test Result	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	Pass Fail NA		
Vent / Transition Sump ID:	a	b	C	d		
Tightness Test Result		Pass Fail NA	Pass Fail NA	Pass Fail NA		
UDC ID:	<u>1</u>	2	<u>3</u>	<u>4</u>		
Tightness Test Result	□ Pass □ Fail □ NA	Pass Fail NA	Pass Fail NA	Pass Fail NA		
UDC ID:	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>		
Tightness Test Result	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	□ Pass □ Fail □ NA	Pass Fail NA		
UDC ID:	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>		
Tightness Test Result	Pass Fail NA	Pass Fail NA	Pass Fail NA	Pass Fail NA		
All items marked "Fail" or "N/A" must be explained in their respective "COMMENTS" section.						
IV. CERTIFICATION BY UST SERVICE TECHNICIAN CONDUCTING THIS TESTING						
I hereby certify that the secondary contain division 3, chapter 16, section 2637 and al				ions, title 23,		
UST Service Technician Signature						

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 2 of 6) V. TANK CONTAINMENT TESTING INFORMATION Identify Tank ID from Section section III for each Manufacturer <u>**A</u>**</u> B <u>C</u> D \mathbf{A} <u>B</u> <u>C</u> \Box Test Method Used: Manufacturer Guidelines: (Specify) ☐ Industry Code or Engineering Standard: (Specify) Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Tank Containment Testing Training and Certifications (List applicable certifications.) **Expiration Date** VI. **COMMENTS** Provide any additional comments here. VII. PRODUCT PIPING CONTAINMENT TESTING INFORMATION Identify Tank ID from Section section III for each Manufacturer <u>**A</u>.**</u> \mathbf{B} <u>C</u> \Box \mathbf{A} **B** \Box <u>C</u> D Test Method Used: ■ Manufacturer Guidelines: (Specify) Industry Code or Engineering Standard: (Specify) ☐ Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Product Piping Containment Testing Training and Certifications (List applicable certifications.) **Expiration Date** Interstitial Communication Verification Method Used: VIII. COMMENTS Provide any additional comments here.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 3 of 6) REMOTE FILL PIPING CONTAINMENT TESTING INFORMATION IX. Identify Tank ID from Section III for each Manufacturer $\mathbf{A}_{-}\Box$ \mathbf{B} <u>C</u> \Box $\underline{\mathbf{A}}\Box$ <u>B</u> □ <u>C</u> <u>D</u> Test Method Used: Manufacturer Guidelines: (Specify) ☐ Industry Code or Engineering Standard: (Specify) ☐ Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Remote Fill Piping Containment Testing Training and Certifications (List applicable certifications.) **Expiration Date** Interstitial Communication Verification Method Used: X. **COMMENTS** Provide any additional comments here. **VENT PIPING CONTAINMENT TESTING INFORMATION** XI. Identify Tank ID from Section section III for each Manufacturer \mathbf{A} <u>B</u> _ <u>C</u> \Box <u>D</u> \Box ABC **Test Method Used:** Manufacturer Guidelines: (Specify) ☐ Industry Code or Engineering Standard: (Specify) ☐ Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Vent Piping Containment Testing Training and Certifications (List applicable certifications.) **Expiration Date** Interstitial Communication Verification Method Used: XII. **COMMENTS** Provide any additional comments here.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 4 of 6) XIII. VAPOR RECOVERY PIPING CONTAINMENT TESTING INFORMATION Identify Tank ID from Section section III for each Manufacturer $\underline{\mathbf{A}}\Box$ <u>C</u> B D $\mathbf{A}\Box$ <u>B</u> <u>C</u> \Box Test Method Used: Manufacturer Guidelines: (Specify) Industry Code or Engineering Standard: (Specify) ☐ Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Vapor Recovery Piping Containment Testing Training and Certifications (List applicable certifications.) **Expiration Date** Interstitial Communication Verification Method Used: XIV. **COMMENTS** Provide any additional comments here. TURBINE / PRODUCT PIPING SUMP TESTING INFORMATION XV. Identify Tank ID from Section section III for each Manufacturer <u>B</u> 🗆 <u>C</u> D $\underline{\mathbf{A}}\square$ $\underline{\mathbf{A}}$ <u>B</u> <u>C</u> \mathbf{D} Test Method Used: Manufacturer Guidelines: (Specify) ☐ Industry Code or Engineering Standard: (Specify) Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Turbine / Product Piping Sump Testing Training and Certifications (List applicable certifications.) **Expiration Date** XVI. COMMENTS Provide any additional comments here.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 5 of 6) **FILL RISER SUMP TESTING INFORMATION** Identify Tank ID from Section section III for each **Manufacturer** \mathbf{A} В <u>C</u> D A B <u>C</u> D **Test Method Used:** Manufacturer Guidelines: (Specify) ☐ Industry Code or Engineering Standard: (Specify) ☐ Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Fill Riser Sump Testing Training and Certifications (List applicable certifications.) **Expiration Date** XVIII. **COMMENTS** Provide any additional comments here. XIX. **VENT / TRANSITION PIPING SUMP TESTING INFORMATION** Identify Vent / Transition Sump ID from Manufacturer ection section III for each Manufacturer <u>a</u>□ **b** <u>C</u> d <u>c</u> <u>a</u>□ **b** \Box d Test Method Used: Manufacturer Guidelines: (Specify) ☐ Industry Code or Engineering Standard: (Specify) ☐ Engineered Method: (Specify) # of Attached Pages Attach the testing procedures and all documentation required to determine the results. Vent / Transition Piping Sump Testing Training and Certifications (List applicable certifications.) **Expiration Date** XX. **COMMENTS** Provide any additional comments.

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM (Page 6 of 6)						
XXI. <u>UNDER-DISPENSER CONTAINMENT TESTII</u>	NG INF	ORMA	TION			
Manufacturer(s):		UDC ID		ction_section	on III for ea	<u>ach</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u> _□
	<u></u>	<u>8</u> 🗆	<u>9</u> 🗆	<u>10</u> \square	<u>11</u> _	<u>12</u> 🗆
	<u>1</u> _	<u>2</u>	<u>3</u>	<u>4</u>	<u>5_</u>	<u>6_</u>
	<u></u>	<u>8</u> 🗆	<u>9</u> 🗆	<u>10</u> □	<u>11</u> \square	<u>12</u> 🗆
Test Method Used:						
Manufacturer Guidelines: (Specify)						
☐ Industry Code or Engineering Standard: (Specify)						
Engineered Method: (Specify)						
Attach the testing procedures and all documentation required to determine the results.				<u># of</u>	Attached I	Pages
UDC Testing Training and Certifications (List applicable certifications.)				Expi	ration Date	2
XXII. <u>COMMENTS</u>				•		
Provide any additional comments here.						

If the facility has more components than this form accommodates, additional copies of these pages may be attached.

Appendix VIII

UNDERGROUND STORAGE TANK SPILL CONTAINER TESTING REPORT FORM (Page 1 of 1)					
TYPE OF ACTION	□ INSTALLATIO	NTEST = REPA	IR TEST	<u> </u>	TH TEST
	 	FACILITY INFORMAT	FION		
CERS ID#				DATE OF TEST	
BUSINESS NAME (Same as	FACILITY NAME or DBA-D	oing Business As.)			
BUSINESS SITE ADDRESS			CITY		ZIP CODE
н.	UNDERGROUND	STORAGE TANK SERVI	CE TECHNICIAN	NINFORMATIO	N
NAME OF UST SERVICE TE	CHNICIAN PERFORMING	TEST (As shown on the ICC cen	tification.)	PHONE ()
CONTRACTOR/TANK TEST		CERTIFICATION #		RTIFICATION EXP	RATION DATE
SPILL CONTAINER TESTING	TRAINING AND CERTIFI	CATIONS (List applicable certific	cations.)		
	III. SF	PILL CONTAINER TESTIN	IG INFORMATIO	N	
TEST METHOD USED:	☐ MANUFACTURER GUI	DELINES (Specify)			
	□ INDUSTRY CODE OR I	ENGINEERING STANDARD (Sp	ecify)		
	■ ENGINEERED METHO	D (Specify)			
Attach the testing proce	dures and all documen	tation required to determin	o the results.	# OF P	AGES
TANK ID # (By tank number,	stored product, etc.)	<u>A.</u>	<u>B.</u>	<u>C.</u>	
SPILL CONTAINER MANUE/	ACTURER .				
METHOD OF CATHODIC PR	ROTECTION	□ NON-METALLIC □ ISOLATION □ OTHER (Specify below in section V.)	□ NON-METALLIC □ ISOLATION □ OTHER (Specify below in section	□ ISOL	
INSIDE DIAMETER OF SPILI	_CONTAINER (Inches)				
DEPTH OF SPILL CONTAINE	ER (Inches)				
IS THE MINIMUM CAPACITY CONTAINMENT AT LEAST F		<u> </u>	<u>∃ YES</u>	⊕NO ⊕YE	<u> </u>
METHOD TO KEEP THE SPI	LL CONTAINER EMPTY	□ DRAIN VALVE □ ONSITE PUMP □ OTHER (Specify below in section V.))	DRAIN VALVE ONSITE PUMP OTHER (Specify below in section	□ ONS	N VALVE TE PUMP R below in section V.)
	IV. <u>s</u>	UMMARY OF TESTING F	RESULTS		
SPILL CONTAINER TEST RE	SULTS	□ PASS □ FAIL	□ PASS	FAIL ⊟PA	<u>SS</u> <u>⊟ FAIL</u>
A	(C) 1111 1	V. <u>COMMENTS</u>	B		
Any items marked "No"	er "Fail" above must b	e explained in this section.	Provide any addi	tional comments	- here.
		ICE TECHNICIAN RESPO		<u> </u>	
		sted in accordance with Ca on contained in this report i			23, division 3,
UST SERVICE TECHNICIAN					

UNDERGROUND STORAGE TANK SPILL CONTAINER TESTING REPORT FORM (Page 1 of 1)						
Type of ActionInstallatio	n Test	Repair Test	□ <u>12 M</u>	onth Test		
	I. <u>FACILITY I</u> I	NFORMATION				
<u>CERS ID</u>			Date of Spill Container	<u>Test</u>		
Business Name (Same as Facility Name or DBA-Do	ing Business As.)					
Business Site Address		<u>City</u>		ZIP Code		
			NICIAN INFORMATI	<u>ON</u>		
Name of UST Service Technician Performing the Te	st (Print as shown on the	ICC Certification.)	<u>Phone #</u> ()			
	CC Certification #		ICC Certification Expira	tion Date		
Spill Container Testing Training and Certifications (L	ist applicable certification	<u>s.)</u>				
III.	SPILL CONTAINE	R TESTING INFOR	<u>MATION</u>			
Test Method Used: Manufacturer Guideline Industry Code or Engine)				
Engineered Method: (S)	pecify)					
Attach the testing procedures and all documenta	ntion required to determ	ine the results.	<u># of</u>	Attached Pages		
Tank ID: (By tank number, stored product, etc.)						
Spill Container Manufacturer:						
Method of Cathodic Protection	□ Non-Metallic □ Isolation □ Other (Specify in section V.)	□ Non-Metallic □ Isolation □ Other (Specify in section V.)	□ Non-Metallic □ Isolation □ Other (Specify in section V.)	□ Non-Metallic □ Isolation □ Other (Specify in section V.)		
Inside Diameter of Spill Container: (Inches)						
Depth of Spill Container: (Inches)						
Does the spill container have a 5 gallon capacity?	□ Yes □ No	□ <u>Yes</u> □ <u>No</u>	□ <u>Yes</u> □ <u>No</u>	□ <u>Yes</u> □ <u>No</u>		
Method to Keep Spill Container Empty	☐ <u>Drain Valve</u> ☐ <u>Onsite Pump</u> ☐ <u>Other</u> (Specify in section V.)	☐ <u>Drain Valve</u> ☐ <u>Onsite Pump</u> ☐ <u>Other</u> (Specify in section V.)	☐ <u>Drain Valve</u> ☐ <u>Onsite Pump</u> ☐ <u>Other</u> (Specify in section V.)	☐ <u>Drain Valve</u> ☐ <u>Onsite Pump</u> ☐ <u>Other</u> (Specify in section V.)		
IV.	SUMMARY OF T	ESTING RESULTS	11	·		
Spill Container Test Results	Pass Fail	Pass Fail	Pass Fail	Pass Fail		
All items marked "Fail" above must be explained in to		l comments may also be				
VI. <u>CERTIFICATION BY U</u> I hereby certify that the spill containers wer						
chapter 16, section 2637.1 and all the inform				o zo, aivisioii o,		
OF SALVICE TOWNHOLD SIGNABLE						

If the facility has more components than this form accommodates, additional copies of this page may be attached.

Appendix IX

UNDERGROUND STORAGE TANK OVERFILL PREVENTION EQUIPMENT INSPECTION REPORT FORM (Page 1 of 1)

TYPE OF ACTION	TALLATIO	ON INSPECTI	<u>ON</u> <u>⊟ RE</u>	PAIR INSPECTI	ON	∃ 36 MONTH IN	ISPECTION
	4	FACII	LITY INFORM	ATION			
CERS ID #					DATE OF	INSPECTION	
BUSINESS NAME (Same as FACILITY NAME	E or DBA-	Doing Busines	ss As.)				
BUSINESS SITE ADDRESS				CITY		₹	P CODE
#. UNDERG	ROUN	D STORAG	SE TANK SEF	VICE TECHI	NICIAN INFO	RMATION	
NAME OF UST SERVICE TECHNICIAN PER	FORMING	S INSPECTIO	N (As shown on t	the ICC certificat	ion.)	IONE (
CONTRACTOR/TANK TESTER LICENSE #		ICC CERTI	FICATION#		ICC CERTIFIC	CATION EXPIRA	TION DATE
OVERFILL PREVENTION EQUIPMENT INSPECTION TRAINING AND CERTIFICATIONS (List applicable certifications.)							
						-	
	RFILL P	REVENTIO	N EQUIPME	NT INSPECT	ION INFORM	IATION .	
INSPECTION METHOD USED:	CTURER	GUIDELINES	S (Specify)				
□ INDUSTF	RY CODE	OR ENGINE	ERING STANDAF	RD (Specify)			
		THOD (Speci		(-)			
Attach the inspection procedures and			**	torming the re	culto.	# OF PAGES	
TANK ID # (By tank number, stored product, c			required to de		ourtor	C.	
DATE UST SYSTEM INSTALLED (MM/DD/Y)		A.		B.		<u> </u>	
TANK INSIDE DIAMETER (Inches)							
FILL PIPING SECONDARILY CONTAINED		□ YES	□ NO	□ YES	□NO	□ YES	□NO
VENT PIPING SECONDARILY CONTAINED		□ YES	□ NO	□ YES	<u>□NO</u>	□ YES	<u>⊒NO</u>
OVERFILL PREVENTION EQUIPMENT MANUFACTURER(S)							
OVEREUL PREVENTION FOLURATION		□ AUTOMATI	C SHUTOFF	■ AUTOMATIC	C SHUTOFF	■ AUTOMATION	C SHUTOFF
OVERFILL PREVENTION EQUIPMENT RESPONSE WHEN ACTIVATED		□ RESTRICTED FLOW		□ RESTRICTED FLOW		□ RESTRICTED FLOW	
(Check all that apply.)		□ VISUAL/AU	IDIBLE ALARM	□ VISUAL/AUI	DIBLE ALARM	□ VISUAL/AU	DIBLE ALARM
ARE FLOW RESTRICTORS IN VENT PIPING INSTALLED?	<u></u>	<u>□-YES</u>	<u>⊒ NO</u>	II YES	<u>⊒ NO</u>	<u>□ YES</u>	□ NO
PERCENT CAPACITY AT WHICH THE OVER PREVENTION EQUIPMENT IS SET TO ACTION.							
LEVEL AT WHICH THE OVERFILL PREVENT	TION						
EQUIPMENT ACTIVATES (Inches from bottom of tank.)							
OVERFILL PREVENTION EQUIPMENT IS IN PROPER OPERATING CONDITION TO		□ YES		<u> </u>		<u> </u>	
RESPOND WHEN THE SUBSTANCE STORE		□ NO		□ NO		<u> </u>	
REACHES THE APPROPRIATE LEVEL		(Specify in sec	ction V.) OF INSPEC	(Specify in sec	-	(Specify in sec	stion V.)
**************************************		□ PASS	# FAIL	□ PASS	-FAIL	□ PASS	□ FAIL
SVERVICE REVENUENTION THOSE CONTINUED	<u> </u>		COMMENTS	<u> </u>		<u> </u>	-
Any items marked "Fail" must be expl	ained in			radditional co	mments here	<u> </u>	
VI. CERTIFICATION OF UST S	EDVICE	TECHNIC	NAN DESDON	ISIRI E EOD	CONDUCTIN	IC THIS INS	DECTION
Lhereby certify that the overfill preven							
title 23, division 3, chapter 16, section							
LIST SERVICE TECHNICIAN SIGNATURE							

UNDERGROUND STORAGE TANK **OVERFILL PREVENTION EQUIPMENT INSPECTION REPORT FORM (Page 1 of 1)** Type of Action Installation Inspection Repair Inspection 36 Month Inspection **YII.** FACILITY INFORMATION **CERS ID** Date of Overfill Prevention Equipment Inspection Business Name (Same as Facility Name or DBA-Doing Business As.) ZIP Code **Business Site Address** City **WIII. UNDERGROUND STORAGE TANK SERVICE TECHNICIAN INFORMATION** Name of UST Service Technician Performing the Inspection (Print as shown on the ICC Certification.) Phone # Contractor/Tank Tester License # ICC Certification # Contractor/Tank Tester License # ICC Overfill Prevention Equipment Inspection Training and Certifications (List applicable certifications.) **IX.** OVERFILL PREVENTION EQUIPMENT INSPECTION INFORMATION Test Inspection Method Manufacturer Guidelines (Specify) Used: Industry Code or Engineering Standard (Specify) Engineered Method (Specify) # of Attached Pages Attach the inspection procedures and all documentation required to determine the results. TANK ID Tank ID: (By tank number, stored What is the tank inside diameter? (Inches) ☐ Yes ☐ Yes ☐ No ☐ Yes ☐ No ☐ No Is the fill piping secondarily contained? No ☐ Yes ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No Yes ☐ No Is the vent piping secondarily contained? Overfill Prevention Equipment Manufacturer(s) ☐ Shuts Off Flow ☐ Shuts Off Flow ☐ Shuts Off Flow ☐ Shuts Off Flow What is the overfill prevention equipment Restricts Flow Restricts Flow Restricts Flow Restricts Flow response when activated? (Check all that apply.) A/V Alarm A/V Alarm A/V Alarm A/V Alarm Are flow restrictors installed on vent piping? Yes No Yes No Yes No Yes No At what level in the tank is the overfill prevention set to activate? (Inches from bottom of tank.) What is the percent capacity of the tank at which the overfill prevention equipment activates? Yes Yes Yes Yes Is the overfill prevention in proper operating condition to respond when the substance □ No □ No □ No □ No reaches the appropriate level? (Specify in section V.) (Specify in section V.) (Specify in section V.) (Specify in section V.) IV. X-SUMMARY OF INSPECTION RESULTS Pass Fail Overfill Prevention Inspection Results Pass Fail Pass Fail Pass Fail XI. COMMENTS All items marked "Fail" must be explained in this section. Any additional comments may also be provided provided here. **XII.** CERTIFICATION BY UST SERVICE TECHNICIAN CONDUCTING THIS INSPECTION I hereby certify that the overfill prevention equipment was inspected in accordance with California Code of Regulations, title 23, division 3, chapter 16, section 2637.2 and all the information contained herein is true and accurate. **UST Service Technician Signature**

If the facility has more components than this form accommodates, additional copies of this page may be attached.

Appendix X

UNDERGROUND STORAGE TANK STATEMENT OF UNDERSTANDING AND COMPLIANCE FORM (Page 1 of 1)

Every underground storage tank (UST) facility must submit a one-time statement indicating that the owner or operator understands and is in compliance with all applicable UST requirements. A copy of this completed form must be submitted via either the California Environmental Reporting System or an equivalent local Unified Program Agency electronic reporting portal within 30 days of: 1) an installation of a UST; or 2) a change in owner or operator of the UST, as applicable. (California Code of Regulations, tit. 23, div. 3, ch. 16, §2715(a).)

TYPE OF ACTION	□ NEW INSTALLATION	□ CHANGE OF O	<u>WNERSHIP</u>	☐ CHANGE C	F OPERATOR	
I. <u>FACILITY INFORMATION</u>						
<u>CERS ID</u>						
BUSINESS NAME (Same as	FACILITY NAME or DBA-Doing Busines	ss As.)		CERS ID#		
BUSINESS SITE ADDRESS			<u>CITY</u>		ZIP CODE	
	II. OWNER/O	PERATOR INFO	ORMATION .			
RELATIONSHIP TO TANK	<u>□ OWNER</u>	<u> </u>	<u>OPERATOR</u>	/		
TANK OWNER/OPERATOR	NAME		1	PHONE ()		
MAILING ADDRESS			<u>CITY</u>	<u>Z</u>	I <u>P CODE</u>	
OWNER/OPERATOR TYPE	□ NON-GOVERNMENT	□ LOCAL AGEN □ FEDERAL AG	CY/DISTRICT ENCY	□ COUNTY AG		
III. CERTIFICATION OF UNDERSTANDING AND COMPLIANCE						
6.7, California Code of R ordinances and that the	derstand the underground storage ogulations, title 23, division 3, she facility listed above is in complian	apter 16, and any	applicable local	underground sto nd storage tank r	rage tank	
TANK OWNER/OPERATOR	<u>SIGNATURE</u>			DATE		

UNDERGROUND STORAGE TANK STATEMENT OF UNDERSTANDING AND COMPLIANCE FORM (Page 1 of 1)

Every underground storage tank (UST) facility must submit a one-time statement indicating that the owner or operator understands and is in compliance with all applicable UST requirements. A copy of this completed form must be submitted via either the California Environmental Reporting System (CERS) or an equivalent local Unified Program Agency electronic reporting portal within 30 days of: 1) an installation of a UST; or 2) a change in owner or operator of the UST, as applicable. (California Code of Regulations, tit. 23, div. 3, ch. 16, §2715(a).)

Type of Action	New Installation	☐ Change of Ov	Change of Ownership		of Operator
	l.	FACILITY INFORMA	ATION		
Business Name (Sa	ame as Facility Name or DBA – Doing	Business As.)		CERS ID	
Duningan Cita Addr			City		ZID Codo
Business Site Addr	<u>ess</u>		<u>City</u>		ZIP Code
	II. <u>OW</u>	NER / OPERATOR INF	ORMATION		
Relationship to Und	derground Storage Tank(s)	Owner Owner	Operator Operator		
UST Owner/Operat	tor Name		<u>Pt</u>	<u>none #</u>)	
Mailing Address		City		<u>State</u>	ZIP Code
III.	CERTIFICATION BY OWNE	R / OPERATOR OF UNI	DERSTANDING A	ND COMPLI	ANCE
I hereby certify that I understand the underground storage tank requirements of Health and Safety Code, division 20, chapter 6.7, California Code of Regulations, title 23, division 3, chapter 16, and any applicable local underground storage tank ordinances and that the facility identified above is in compliance with all applicable underground storage tank requirements.					
UST Owner/Operat	tor Signature			<u>Date</u>	

Appendix XI.

UNDERGROUND STORAGE TANK DESIGNATED UNDERGROUND STORAGE TANK OPERATOR IDENTIFICATION FORM (Page 1 of 1)

Every underground storage tank (UST) facility must have at least one designated UST operator. A copy of this completed form must be electronically submitted via either the California Environmental Reporting System or an equivalent local Unified Program Agency electronic reporting portal within 30 days of: 1) an installation a UST; 2) a change in owner or operator of the UST; or 3) an addition or change of an individual performing designated UST operator inspections and/or facility employee training at this facility. (California Code of Regulations, tit. 23, div. 3, ch. 16, §2715(a).)

iacinty simple feet training at this facility. (Camerina Code of Augustions, E	ter 20, unvi o, uni 10	, <u>, , , , , , , , , , , , , , , , , , </u>	
TYPE OF ACTION			
☐ NEW UST INSTALLATION ☐ CHANGE OF OWNER OR OPERATOR	□ NEW OR CHANGE OF DESIGNATED UST OPERATOR		
I. FACILITY INFORM/	ATION NOITA		
BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As.)		CERS ID #	
BUSINESS SITE ADDRESS	<u>CITY</u>	ZIP CODE	
The individual(s) listed below will conduct and document the facility inspec	ctions and facility	amployee training for the facility	
listed above, in accordance with California Code of Regulations, title 23, di			
II. DESIGNATED UNDERGROUND STORAGE TAN	K OPERATOR(S)	-INFORMATION	
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION #	
DESIGNATED UST OPERATOR ADDRESS		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION#	
DESIGNATED UST OPERATOR ADDRESS		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION #	
DESIGNATED UST OPERATOR ADDRESS		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION #	
DESIGNATED UST OPERATOR ADDRESS		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION #	
<u>DESIGNATED UST OPERATOR ADDRESS</u>		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION #	
<u>DESIGNATED UST OPERATOR ADDRESS</u>		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CERTI	FICATION #	
		D. 10115 (
<u>DESIGNATED UST OPERATOR ADDRESS</u>		PHONE (
NAME OF REGIONATED HOT OPERATOR (As absence of the 100 and Testing)	LIGO OFFITI	FIGATION #	
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	HOG GERH	FICATION #	
DESIGNATED UST OPERATOR ADDRESS		DHONE ()	
DESIGNATED UST OPERATOR ADDRESS		PHONE (
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)	ICC CEPTI	FICATION #	
THE ST DESIGNATED SO FOR THE PASSHOWN SHEET TO CONTRACT THE STATE OF T	TOO GERTI	- 10/11/014 #	
DESIGNATED UST OPERATOR ADDRESS	<u>l</u>	PHONE (
DEGICINALED GOT OF EIGHT OF PROPERTY		THORE (

UNDERGROUND STORAGE TANK DESIGNATED UNDERGROUND STORAGE TANK OPERATOR IDENTIFICATION FORM (Page 1 of 1)

Every underground storage tank (UST) facility must have at least one designated UST operator. A copy of this completed form must be electronically submitted via either the California Environmental Reporting System (CERS) or an equivalent local Unified Program Agency electronic reporting portal within 30 days of: 1) an installation a UST; 2) a change in owner or operator of the UST; or 3) an addition or change of an individual performing designated UST operator inspections and/or facility employee training at this facility. (California Code of Regulations, tit. 23, div. 3, ch. 16, §2715(a).)

change of an individual performing designated UST operator inspections and/or factor of Regulations, tit. 23, div. 3, ch. 16, §2715(a).)	ility em	oloyee traini	ng at this facility.	(California Code
Type of Action New UST Installation Change of Owner or Operator	•	☐ New or Ch	nange of Designat	ed UST Operator
I. FACILITY INFORMA	•	<u> </u>	- 5 - 5 -	•
Business Name (Same as Facility Name or DBA-Doing Business As.)			CERS ID	
Business Site Address	City			ZIP Code
ا The individual(s) listed below will conduct and document the facility inspections and	l facility	employee tra	aining, for the fac	cility listed above in
accordance with California Code of Regulations, title 23, division 3, chapter 16, secti				<u> </u>
II. <u>DESIGNATED UNDERGROUND STORAGE TANK</u>	K OPE	RATOR(S)	INFORMATIO	<u>NC</u>
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	
Name of Designated UST Operator (Print as shown on the ICC certification.)		ICC Certific	ation #	
Mailing Address			Phone #	
			<u>()</u>	

Appendix XII

UNDERGROUND STORAGE TANK FACILITY EMPLOYEE TRAINING CERTIFICATE (Page 1 of 1)

THORETT ENTER THE TOTAL		t I = (Faye I VI	-1
I. <u>FACILITY</u>	<u>INFORMATION</u>		
BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As.)		GE	ERS ID #
BUSINESS SITE ADDRESS	CITY	•	<u>ZIP CODE</u>
II. DESIGNATED UNDERGROUND STO	PAGE TANK OF	PERATOR IN	FORMATION .
NAME OF DESIGNATED UST OPERATOR PERFORMING TRAINING (As a	shown on the ICC certi	ification.)	
MAILING ADDRESS			
PHONE NUMBER			
ICC CERTIFICATION #	ICC CERTIFICATION	LEXPIRATION [DATE
III. <u>FACILTY EMPLOY</u>			
Individuals assuming the duties of the facility employee before	October 13, 2018 n	rust be traine	d within 30 days of performing
facility employee duties. Individuals assuming the duties of the facility employee on and	after October 13	018 must be	trained before performing
facility employee duties.	artor Gotobol 10, 1	o lo muet bo	an our portor portor
Check this box if a list of the individual(s) trained is appendent minimum must contain the names of the individuals trained			
individual assumed the responsibilities of a facility employ		, uate or the r	nun nuu ine uute ine
······································			
NAME OF INDIVIDUAL TRAINED		<u>INITIAL TRA</u> <u>DATE</u>	
<u></u> =			THOILIT EMILECTEE
<u> </u>			
<u>3-</u>			
<u>4-</u>			
<u>5-</u>			
<u>6-</u>			
<u> -</u>			
<u>&</u>			
9.			
10.			
11.			
12.			
13.			
14.			
<u>15.</u>			
IV. CERTIFICATION OF DESIGNATED UST OPERAT			
The facility employees listed above, through a practical demons with California Code of Regulations, title 23, division 3, chapter			
certification is true and accurate.			
DESIGNATED UST OPERATOR SIGNATURE			<u>DATE</u>

UNDERGROUND STORAGE TANK FACILITY EMPLOYEE TRAINING CERTIFICATE (Page 1 of 1) **FACILITY INFORMATION** Business Name (Same as Facility Name or DBA-Doing Business As.) **CERS ID** ZIP Code **Business Site Address** City II. **DESIGNATED UNDERGROUND STORAGE TANK OPERATOR INFORMATION** Name of Designated UST Operator Providing the Training (Print as shown on the ICC Certification.) Mailing Address Phone # ICC Certification # ICC Certification Expiration Date III. **FACILITY EMPLOYEE INFORMATION** Individuals assuming the duties of the facility employee before October 13, 2018 must be trained within 30 days of performing facility employee duties. Individuals assuming the duties of the facility employee on and after October 13, 2018 must be trained before performing facility employee duties. Check this box if a list of the individual(s) trained is appended to this form. The appended list at a minimum must contain all of the information in this section. **Initial Training Date Date of Assuming** Responsibility as a Name of Individual(s) Trained Facility Employee IV. CERTIFICATION BY DESIGNATED UST OPERATOR CONDUCTING THIS TRAINING The facility employees listed above have completed the required training in accordance with California Code of Regulations, title 23, division 3, chapter 16, section 2715(c) and all the information provide herein is true and accurate. Training Designated UST Operator Signature **Date of Training**

Appendix XIII

DESIGNATED UNDERGROUND STORAGE TANK OPERATOR		<u>.</u> Hai ingi	PECTION REPO	PT (Page 1 of 2)
I. FACILITY INFOR			LOTION KEI	7111 (1 age 1 61 2)
CERS ID#	WATE		DATE OF FACILITY	'INSPECTION
BUSINESS NAME (Same as FACILITY NAME or DBA — Doing Business As.)				
BUSINESS SITE ADDRESS	CITY	<u>′</u>		ZIP CODE
II. INSPECTING DESIGNATED UNDERGROUND STO	RAGE	TANK OPE		<u>MATION</u>
NAME OF DESIGNATED UST OPERATOR (As shown on the ICC certification.)			PHONE (
ICC CERTIFICATION #		ICC CERTIF	<u> </u> FICATION EXPIRATIO	N DATE
ICC CENTIFICATION		IOO OLIVIII	10/11/01/12/11/11/11/01	711 D711 L
III. COMPLIANCE ISSI	UES			
Any answer of "N" or "NA" in sections VII. through XI. should be explain	ned in th	is section a	nd may require fe	llow-up-action.
4-				
<u>2</u>				
3.				
4-				
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0.				
7.				
8.				
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<u>41.</u>				
12.				
13.				
14.				
15.				
IV. DESIGNATED UNDERGROUND STORAGE TAN	NK OPE	RATOR C	RTIFICATION	
Lhereby certify that the information provided herein is true, accurate, an compliance with California Code of Regulations, title 23, division 3, char				<u>d in full</u>
DESIGNATED UNDERGROUND STORAGE TANK OPERATOR SIGNATURE				
V. OWNER/OPERATOR DESCRIPTION O				
Note: Each item_listed in section III. above, must have a description of 1.	tne actie	n taken to	correct the Issue.	
2				
5.				
3.				
4.				
5.				
6.				
7				
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8.				
<u>Q.</u>				
10.				
44.				
12.				
13.				
14-				
<u>15:</u>				
VI. OWNER/OPERATOR ACKNOWLEDGMEN	NT OF A	OMPLIAN	OF ICCUES	
VI. OWNER/OPERATOR ACKNOWLEDGME! have reviewed section III. "ITEMS REQUIRING FOLLOW UP ACTION"_a				notion taken en
to be taken to correct the issues discovered.	ma nave	ргечіаса а	auscription of the	uction taken or
OWNER/OPERATOR SIGNATURE		I DATE		
OWNER OF ERATOR SIGNATURE		DATE		

	UNDER	CRO	JND	STC	RAGE TANK			
DESIGN					RATOR VISUAL INSPECTION REPORT	(Pag	e 2 c	o f 2)
VII. INSPECTION HISTORY							¥	N
HAS EACH FOLLOW-UP ACTION OF COMPLIANCE ISSUE LISTED IN SECTION III. FROM THE PREVIOUS INSPECTION REPORT BEEN COMPLETED APPROPRIATELY CORRECTED?								
	<u>'LETED APPROPRIATELY CORRECTED!'</u> <u>s roport any documentation verifying appropriate s</u>	ervice t	o this	reno	t demonstrating corrective action taken			
Trittaori to trit	VIII.				TORY			
Attach a co	opy of the alarm history report/log to this					¥	N	NΑ
-	ITORING SYSTEM POWERED ON AND IN PROI		PER/	TING	MODE?		114	
	EAK DETECTION ALARM SINCE THE PREVIOU							
	s report any documentation verifying appropriate s							
HAVE ALL C	ONTAINMENT SUMPS, THAT HAVE HAD A LEA	K DETE	CTI	JA AC	ARM SINCE THE PREVIOUS INSPECTION, BEEN			
	D TO BY A QUALIFIED UST SERVICE TECHNIC							
	III containment sumps that have had a leak detectii I UST service technician.)	on alarr	n sin	ce tne	previous inspection and have not been responded to			
	CATION (By tank number, stored product, sump type	oe. etc.)	SI	JMP LOCATION (By tank number, stored product, sump-	tvpe.	etc.	
a.	······································	.,		d.		-711		
b.				0.				
<u>6-</u>				<u>+-</u>				
					n for damage, water, debris, hazardeus substal	100,	and	
proper sen	sor location. The results of the visual ins	,						
					TANK SYSTEM INSPECTION			
IS THE CON	TAINMENT SUMP FREE OF DAMAGE, WATER,		-,	ID HA		ı		
	<u>SUMP LOCATION</u>	¥	N	١.	SUMP LOCATION		<u>¥</u>	<u>N</u>
a.				<u>d.</u>				
b.				0.				
C.				£				
ARE ALL SE	NSORS IN CONTAINMENT SUMPS INSPECTED	FOCY.	TED	TO DI	TECT A LEAK AT THE EARLIEST OPPORTUNITY?			
IS THE SPIL	L CONTAINER FREE OF DAMAGE, WATER, DE	BRIS, /	ND I	1	RDOUS SUBSTANCE?	- 1		
TANK ID#	<u>A.</u>			<u>C.</u>				
17 (((()))	B.			D.				
IS THE FILL	PIPE FREE OF OBSTRUCTIONS?							
	A.			C.				
TANK ID#	₽,			Đ.				
IS THE FILL	CAP SECURELY ON THE FILL PIPE?		<u> </u>					
	A			C.				
TANK ID#	<u></u>			D .				
IO THE HAIR	=	4 OF 14	/ A T F		DDIO AND HAZADDONO CUDOTANOSO			
IS THE UND	ER-DISPENSER CONTAINMENT FREE OF DAM UNDER-DISPENSER ID #				UNDER-DISPENSER ID #	V	NI	NI A
4/0	UNDER-DISFERSER ID #	¥	N	NA		¥	<u>N</u>	NA
1/2					9/10			
3/4					<u>11/12</u>			
5/6					13/14			
7/8					<u>15/16</u>			
ARE ALL SE	NSORS IN UNDER-DISPENSER CONTAINMENT	LOCA	TED	TO D	ETECT A LEAK AT THE EARLIEST OPPORTUNITY?			
	X. TESTING	AND	MΛI	NTE	NANCE Y N NA		FOR	
HAS THE MO	ONITORING SYSTEM CERTIFICATION BEEN CO	MPI E	TED.	W/ITH		PEK	FOR	WED
	ILL CONTAINER TESTING BEEN COMPLETED							
	ERFILL PREVENTION EQUIPMENT INSPECTION							
	CONDARY CONTAINMENT TESTING BEEN CO							
HAS THE TANK TIGHTNESS TESTING BEEN COMPLETED WITHIN THE REQUIRED TIMEFRAMES? HAS THE LINE TIGHTNESS TESTING BEEN COMPLETED WITHIN THE REQUIRED TIMEFRAMES?								
	OTHER REQUIRED TESTING/MAINTENANCE WAS COMPLETED WITHIN THE REQUIRED TIMEFRAME(List test/maintenance item						₩.)	
	INTENANCE:							
TEST/MA	INTENANCE:							
TEST/MA	INTENANCE:							
	INTENANCE:							
1 E O 17 WIF		CILIT	V EI	MPL	OYEE TRAINING		¥	N
HAVE ALL IN		•			VED THE REQUIRED FACILITY EMPLOYEE TRAINING	}	<u> </u>	<u>#</u>
	PAST 12 MONTHS?				The state of the s	-		

Note: Any answer of "N" or "NA" should <u>must</u> be explained in section III. on the previous page, and may require follow-up action

<u>UNDER</u> DESIGNATED UNDERGROUND STORAGE	GROUND STORAGE TAI TANK OPERATOR V		ECTION REPO	ORT (Page 1 of 2)
I.	FACILITY INFORMATION	ON		
<u>CERS ID</u>			Designated UST Ope	erator Inspection
Business Name (Same as Facility Name or DBA-Doing Business	<u>s As.)</u>	1		
Business Site Address	City			ZIP Code
II. <u>DESIGNATED UNDERGRO</u>		OPERATOR	INFORMATION	<u>[</u>
Name of Designated UST Operator (Print as shown on the ICC of	Certification.)]	<u>Phone #</u> ()	
ICC Certification #		ICC Certification	n Expiration Date	
	OMPLIANCE ISSUES			
All answer of "N" or "NA" in sections VII- through XI- must be exp	plained in this section and may	<u>require follow-up</u>	action.	
2.				
3.				
<u>4.</u>				
<u>5.</u>				
<u>6.</u>				
<u>7.</u> 8.				
9.				
10.				
11.				
<u>12.</u>				
IV. <u>CERTIFICATION BY DESIGNATE</u>				
I hereby certify that the visual inspection was perform division 3, chapter 16, section 2716 and all the inform				is, title 23,
Designated UST Operator Signature				
V. <u>OWNER / OPERATOR</u>	R DESCRIPTION OF FO	LLOW-UP AC	CTIONS	
All issue listed in section III- above, must have a description of the corresponds with the number line the compliance issue is listed and all interests of the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the number line the compliance is a section of the corresponds with the corresponds with the number line the compliance is a section of the corresponds with the corresponds with the corresponds with the corresponds of the corresponds with the correspond of the corresponds with the corresponds of the corresponds with the corresponds with the corresponds of the corresponds with the correspond of the corresponds with the correspond of the corresponds with the correspond of the cor		be taken, to corre	ect the issue on the r	number line that
<u>1.</u> 2.				
<u>3.</u>				
4.				
5.				
<u>6.</u>				
7.				
8.				
<u>9.</u> 10.				
11.				
12.				
VI. OWNER / OPERATOR A	CKNOWLEDGMENT OF	F COMPLIAN	CE ISSUES	
I have reviewed section III, "COMPLIANCE ISSUES" a				en or to be taken
to correct the issues discovered. Name of UST Owner/Operator (Print)	UST Owner/Operator Signat	ture		Date Signed

UNDERGROUND STORAGE TANK DESIGNATED UNDERGROUND STORAGE TANK OPERATOR VISUAL INSPECTION REPORT (Page 2 of 2)														
VII. <u>INSPECTION HISTORY</u>								<u>Y</u>	<u>N</u>					
	low-up action of Section_section III. from the previous mentation verifying appropriate service to this repo			ecti	on l	been o	completed app	ropriately?						
thracii doca	<u>Will.</u>			AR	M	HIST	ORY							
Attach a co	opy of the alarm history report/log to this											Y	N	NA
	ring system powered on and in proper operating m													
(Attach docu	ak detection alarm since the previous inspection be mentation verifying appropriate service to this repo	ort.)												
	tainment sumps, that have had a leak detection ala	arm	sinc	e th	ne p	reviou	<u>is inspection, l</u>	been responded to by a c	ualifie	ed US	<u>T2</u>			
Service technician? List below in section IX, all containment sumps that have had a leak detection alarm since the previous inspection and have not been responded to by a qualified UST service technician. Containment sumps listed below require a visual inspection for damage, water, debris, hazardous substance, and proper sensor location. The results of the visual inspection must be recorded in section IX. UNDERGROUND STORAGE TANK SYSTEM INSPECTION									<u>S,</u>					
Is the contai	nment sump free of damage, water, debris, and h													
_	Containment Sump ID		Y	N	_			Containment Sump ID					<u>Y</u>	N
				Ē][
]									
]									
]									
Are all senso	ors in containment sumps inspected located to de	tec	t a le	ak	at t	he ea	rliest opportun	ity?						
Is the spill co	ontainer free of damage, water, debris, and hazar	dou	ıs su	bsta	anc	e?								
TANK ID				-+-										
17111112				[
Is the fill pipe free of obstructions?														
TANK ID														
Is the fill cap	securely on the fill pipe?													
TANK ID														
Is the under-	I -dispenser containment free of damage, water, d	lebr	ris, a	nd h	_ haz	ardou	s substance?							
	Inder-dispenser Containment ID			N/				lispenser Containment	ID			<u>Y</u>	N	NA
]												
]												
Are all sensors in under-dispenser containment located to detect a leak at the earliest opportunity?														
X. <u>TESTING AND MAINTENANCE</u> $\underline{Y} \underline{N} \underline{N}$					<u>NA</u>	DAT PERI	E LA FORM	NED ST						
Has the monitoring system certification been completed within the past 12 months?														
Has the spill container testing been completed within the past 12 months?														
Has the overfill prevention equipment inspection been completed within the past 36 months?														
Has the secondary containment testing been completed within the past 36 months?														
Has the tank tightness testing been completed within required timeframes?														
Has the line tightness testing been completed within the required timeframes?														
	ed testing / maintenance was completed within require	uire	d tin	nefr	am	e. (Lis	t test/mainten	ance items below.)						
Test / Maintenance:														
Test / Maintenance:														
Test / Maintenance:														
Test / Maintenance:														
Test / Ma	nintenance:											-		
XI. FACILITY EMPLOYEE TRAINING Have all individuals performing facility employee duties received the required facility employee training within the past 12 months?								N						

If the facility has more components than this form accommodates, additional copies of this page may be attached.