REGULAR

STATE OF CALIFORNIA--OFFICE OF ADMINISTRATIVE LAW

NOTICE PUBLICATION/REGULATIONS SUBMISSION

(See instructions on reverse)

For use by Secretary of State only

STD. 400 (REV. 01-2013)

OAL FILE NUMBERS	NOTICE FILE NUMBER	REGULATORY ACTION NUMBER	EMERGENCY NUMBER
	Z-2014-1021-04	2015-0522-01S	

For use by Office of Administrative Law (OAL) only

RECEIVED FOR FILING PUBLICATION DATE	2015 MAY 22 PM 4:48 OFFICE OF ADMINISTRATIVE LAW
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NOTICE	REGULATIONS

ENDORSED - FILED
in the office of the Secretary of State of the State of California
JUL 06 2015
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AGENCY WITH RULEMAKING AUTHORITY: Occupational Safety and Health Standards Board

AGENCY FILE NUMBER (if any):

A. PUBLICATION OF NOTICE (Complete for publication in Notice Register)

1. SUBJECT OF NOTICE	TITLE(S)	FIRST SECTION AFFECTED	2. REQUESTED PUBLICATION DATE
GISO 5530, 5568, 5572, 5574, 5575, 5621 (see attached)	Title 8	GISO 5530	October 31, 2014

3. NOTICE TYPE	4. AGENCY CONTACT PERSON	TELEPHONE NUMBER	FAX NUMBER (Optional)
[X] Notice re Proposed Regulatory Action [ ] Other	Marley Hart, Executive Officer	(916)-274-5721	(916)-274-5743

OAL USE ONLY	ACTION ON PROPOSED NOTICE	NOTICE REGISTER NUMBER	PUBLICATION DATE
	[ ] Approved as Submitted [ ] Approved as Modified [ ] Disapproved/ Withdrawn	2014, 442	10/31/2014

B. SUBMISSION OF REGULATIONS (Complete when submitting regulations)

1a. SUBJECT OF REGULATION(S): Electrical Equipment in Hazardous (Classified) Locations

1b. ALL PREVIOUS RELATED OAL REGULATORY ACTION NUMBER(S):

2. SPECIFY CALIFORNIA CODE OF REGULATIONS TITLE(S) AND SECTION(S) (Including title 26, if toxics related)

SECTION(S) AFFECTED (List all section number(s) individually. Attach additional sheet if needed.)

ADOPT:

AMEND: Sections 5530, 5568, 5572, 5574, 5575, 5621, and Sections 2540.7 and 2540.8

REPEAL:

TITLE(S): 8

3. TYPE OF FILING

- [X] Regular Rulemaking (Gov. Code §11346)
- [ ] Resubmittal of disapproved or withdrawn nonemergency filing (Gov. Code §§11349.3, 11349.4)
- [ ] Emergency (Gov. Code, §11346.1(b))
- [ ] Certificate of Compliance: The agency officer named below certifies that this agency complied with the provisions of Gov. Code §§11346.2-11347.3 either before the emergency regulation was adopted or within the time period required by statute.
- [ ] Resubmittal of disapproved or withdrawn emergency filing (Gov. Code, §11346.1)
- [ ] Emergency Readopt (Gov. Code, §11346.1(h))
- [ ] File & Print
- [ ] Other (Specify)
- [ ] Changes Without Regulatory Effect (Cal. Code Regs., title 1, §100)
- [ ] Print Only

4. ALL BEGINNING AND ENDING DATES OF AVAILABILITY OF MODIFIED REGULATIONS AND/OR MATERIAL ADDED TO THE RULEMAKING FILE (Cal. Code Regs. title 1, §44 and Gov. Code §11347.1)
March 2, 2015 through March 18, 2015

5. EFFECTIVE DATE OF CHANGES (Gov. Code, §§ 11343.4, 11346.1(d); Cal. Code Regs., title 1, §100)
- [X] Effective January 1, April 1, July 1, or October 1 (Gov. Code §11343.4(a))
- [ ] Effective on filing with Secretary of State
- [ ] §100 Changes Without Regulatory Effect
- [ ] Effective other (Specify)

6. CHECK IF THESE REGULATIONS REQUIRE NOTICE TO, OR REVIEW, CONSULTATION, APPROVAL OR CONCURRENCE BY, ANOTHER AGENCY OR ENTITY
- [ ] Department of Finance (Form STD. 399) (SAM §6660)
- [ ] Fair Political Practices Commission
- [X] State Fire Marshal
- [ ] Other (Specify)

7. CONTACT PERSON	TELEPHONE NUMBER	FAX NUMBER (Optional)	E-MAIL ADDRESS (Optional)
Marley Hart, Executive Officer	(916) 274-5721	(916) 274-5743	mhart@dir.ca.gov

8. **I certify that the attached copy of the regulation(s) is a true and correct copy of the regulation(s) identified on this form, that the information specified on this form is true and correct, and that I am the head of the agency taking this action, or a designee of the head of the agency, and am authorized to make this certification.**

SIGNATURE OF AGENCY HEAD OR DESIGNEE: Marley Hart — DATE: 5/21/15

TYPED NAME AND TITLE OF SIGNATORY: Marley Hart, Executive Officer

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ENDORSED APPROVED
JUL 06 2015
Office of Administrative Law

STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 5530 to read:

§5530. Scope and General Requirements.

Scope. This article shall apply to the following areas where:

1) ~~Class I~~ Category 1, 2, or 3 liquids with a flash point below 100 °F (37.8 °C) (formerly designated as Class I) are stored or handled.
2) ~~or where~~ ~~Class II~~ Category 3 liquids with a flash point greater than or equal to 100 °F (37.8 °C) and less than 140 °F (60 °C)(formerly designated as Class II) are stored or handled at or above their flash point.
3) ~~or Class III~~ Category 4 liquids or liquids with a flash point greater than or equal to 199.4 °F (93°C) (both formerly designated as Class III) ~~liquids~~ are stored or handled at ~~a~~ temperatures at or above their flash points.

For areas where only ~~Class II~~ Category 3 liquids with a flash point greater than or equal to 100 °F (37.8 °C) or ~~Class III~~ Category 4 liquids or liquids with a flash point greater than or equal to 199.4°F (93°C) ~~liquids only~~ are stored or handled at a temperature below their flash points, the electrical equipment may be installed in accordance with the provisions of the California Electrical Safety Orders for ordinary locations; however, care shall be used in locating electrical apparatus to prevent hot metal from falling into open equipment.

(a) All electrical equipment and wiring shall be of a type specified by and shall be installed in accordance with the California Electrical Safety Orders and Title 24, Part 3, California Electrical Code, Chapter 5, Special Occupancies.

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(c) Where the provisions of this article require the installation of electrical equipment suitable for Class I, Division 1 or Division 2 locations, ordinary electrical equipment including switchgear may be used if installed in a room or enclosure which is maintained under positive pressure with respect to the classified area. Ventilation make-up air shall be uncontaminated by flammable vapors.
(1) Pressurizing or purging of classified areas shall be in compliance with NFPA ~~496-1974~~ 496, Standard for Purged and Pressurized Enclosures for Electrical Equipment, 2008 Edition (NFPA 496-2008), which is herein incorporated by reference.

PROPOSED STATE STANDARD,
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~~(d) The area classifications listed Table FL-1 are based on the premise that the installation meets the applicable requirements of this section in all respects.~~
(d) ~~(e)~~ The ~~E~~extent of electrical area classifications ~~classified areas~~ shall be as contained in Title 24, Part 3, Article 515. Bulk Storage Plant, pertaining to Class I locations. ~~Table FL-1. (Title 24, T8-5530)~~

~~Table FL-1~~

~~*Location*~~	~~*Class I Division*~~	~~*Extent of Classified Area*~~
~~Indoors equipment installed in accordance with 5546(d) where flammable vapor-air mixtures may exist under normal operations.~~	~~1~~	~~Area within 5 feet of any edge of such equipment, extending in all directions.~~
	~~2~~	~~Area between 5 feet and 8 feet of any edge of such equipment, extending in all directions. Also, area up to 3 feet above floor or grade level within 5 feet to 25 feet horizontally from any edge of such equipment.*~~
~~Outdoor equipment of thetype covered in 5546(d) where flammable vapor-air mixtures may exist under normal operations.~~	~~1~~	~~Area within 3 feet of any edge of such equipment, extending in all directions.~~
	~~2~~	~~Area between 3 feet and 8 feet of any edge of such equipment extending in all directions. Also, area up to 3 feet above floor or grade level within 3 feet to 10 feet horizontally from any edge of such equipment.~~
~~Tank--Aboveground (Underground, see 5574)~~		
~~Shell, Ends, or Roof and~~	~~2~~	~~Within 10 feet from shell, ends or roof of tank~~
~~Dike Area~~		~~Area inside dikes to level of top of dike.~~
~~Vent~~	~~1~~	~~Within 5 feet of open end of vent, extending in all directions.~~
~~Floating Roof~~	~~1~~	~~Area above the roof and within the shell.~~

PROPOSED STATE STANDARD,
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~~Drum and Container Filling Outdoors, or Indoors with Adequate Ventilation~~	~~1~~	~~Within 3 feet of vent and fill opening, extending in all directions~~
	~~2~~	~~Area between 3 feet and 5 feet from vent or fill opening, extending in all directions. Also up to 18 inches above floor or grade level within a horizontal radius of 10 feet from vent or fill opening.~~
~~Pumps, Bleeders, Withdrawal, Fittings, Meters and Similar Devices~~		
~~Indoors~~	~~2~~	~~Within 5 feet of any edge of such devices extending in all directions. Also up to 3 feet above floor or grade level within 25 feet horizontally from any edge of such devices.~~
~~Outdoors~~	~~2~~	~~Within 3 feet of any edge of such devices, extending in all directions. Also up to 18 inches above grade level within 10 feet horizontally from any edge of such devices.~~
~~Pits~~		
~~Without Mechanical Ventilation~~	~~1~~	~~Entire area within pit if any part is within a within a Division 1 or 2 classified area.~~
~~With Mechanical Ventilation~~	~~2~~	~~Entire area within pit if any part is within a Division 1 or 2 classified area.~~
~~Containing Valves, Fittings or Piping, and Not Within a Division 1 or 2 Classified Area~~	~~2~~	~~Entire pit.~~
~~Drainage Ditches, Separators, or Impounding Basins~~	~~2~~	~~Area up to 18 inches above ditch, separbasin. Also up to 18 inches above grade within 15 feet horizontally from any edge.~~

~~* The release of Class I liquids may generate vapors to the extent that the entire building, and possibly a zone surrounding it, should be considered a Class I, Division 2 location.~~

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 5568 to read:

§5568. Inside Buildings.

*****

(b) Category 1 or 2 flammable liquids, or Category 3 flammable liquids with a flashpoint below 100 °F (37.8 °C), may be transferred from one container to another in lubrication or service rooms of a service station building provided the electrical installation complies with Sections 5530(d) and 5574(c) ~~Table FL-9~~ and provided that any heating equipment complies with Section 5575. See also Section 5580 for other possible sources of ignition.

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NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 5572 to read:

§5572. Emergency Disconnect Switches. ~~Emergency Power Cutoff.~~

(a) One or more ~~A~~ clearly identified and ~~easily~~ readily accessible emergency disconnect switch(es) or other approved means ~~or circuit breaker(s)~~ shall be provided and installed at ~~a~~ approved location(s) to stop the transfer of fuel to the fuel dispensers in the event of a fuel spill or emergency. ~~remote from dispensing devices, including remote pumping systems, to shut off the power to all dispensing devices in the event of an emergency.~~
(Title 24, T8-5572)

(b) The emergency disconnect switch for attended motor fuel dispensers shall be installed at a location acceptable to the authority having jurisdiction, but shall be more than 20 feet, but less than 100 feet from dispensers.

(c) The emergency disconnect switch for unattended motor fuel dispensing facilities shall be installed at a location acceptable to the authority having jurisdiction, but shall be more than 20 feet, but less than 100 feet from dispensers. The emergency disconnect switch shall be readily accessible to the patrons, and at least one additional device or disconnect switch shall be readily accessible to each group of dispensing devices on an individual island.

(d) For interior fuel-dispensing operations, the switch shall be installed at a location approved by the authority having jurisdiction.

(e) Emergency disconnect switch(es) shall be distinctly labeled as: EMERGENCY FUEL SHUTOFF. Signs shall be provided in approved locations.

(f) Emergency electrical disconnect switch(es) or device switch(es) shall disconnect power to all dispensing devices; to all remote pumps serving dispensing devices; to all associated power, control or signal circuit; and to all other electrical equipment in the hazardous (classified) locations surrounding the fuel dispensing devices.

(g) When more than one emergency disconnect switch or device is provided, all switches or devices shall be interconnected.

(h) Emergency controls shall be of a type which is only manually resettable.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 5574 to read:

§5574. Electrical Equipment.

*****

(c) ~~Table FL-9~~ Title 24, Part 3, California Electrical Code, Article 514 shall be used to delineate and classify areas for the purpose of installation of electrical equipment under normal circumstances. A classified area shall not extend beyond an unpierced wall, roof or other solid partition.

(d) The area classifications listed in (c) shall be based on the premise that the installation meets the applicable requirements of these orders in all respects. (Title 24, T8-5574)

(e) Emergency electrical disconnects for motor fuel dispensing facilities shall be installed in accordance with Section 5572 and Section 2540.7 of Title 8.

~~Table FL-9~~
~~Electrical Equipment Classified Areas--Service Stations~~

~~Location~~	~~Class I, Group D Division~~	~~Extent of Classified Area~~
~~UNDERGROUND TANK~~		
~~Fill Opening~~	~~1~~	~~Any pit, box or space below grade level, any part of which is within the Division 1 or 2 classified area.~~
	~~2~~	~~Up to 18 inches above grade level within a horizontal radius of 10 feet from a loose fill connection and within a horizontal radius of 5 feet from a tight fill connection.~~
~~Vent Discharging~~	~~1~~	~~Within 3 feet of open end of vent, Upward extending in all directions~~
	~~2~~	~~Area between 3 feet and 5 feet of open end of vent, extending in all directions.~~
~~DISPENSER~~		
~~Pits~~	~~1~~	~~Any pit, box or space below grade level, any~~

PROPOSED STATE STANDARD,
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		~~part of which is within the Division 1 or 2 classified area.~~
~~Dispenser enclosure~~	~~1~~	~~The area up to 4 feet vertically above the base within the enclosure,and 18 inches horizontally in all directions.~~
~~Outdoor~~	~~2~~	~~Up to 18 inches above grade level within 20 feet horizontally of any edge of enclosure.~~
~~INDOOR with Mechanical Ventilation~~	~~2~~	~~Up to 18 inches above grade or Ventilation floor level within 20 feet horizontally of any edge of enclosure.~~
~~with Gravity Ventilation~~	~~2~~	~~Up to 18 inches above grade or floor level within 25 feet horizontally of any edge of enclosure.~~
~~DISPENSING UNITS, OVERHEAD TYPE~~	~~1~~	~~Within the dispenser enclosure and 18 in ches in all directions from the enclosure where not suitably cut off by ceiling or wall. All electrical equipment integral with the dispensing hose or nozzle.~~
	~~2~~	~~An area extending 2 feet horizontally in all directionsbeyond the Division 1 area and extending to grade below this classified area.~~
	~~2~~	~~Up to 18 inches above grade level within 20 feet horizontally measured from a point ver tically below the edge of any dispenser enclosure.~~
~~REMOTE PUMP-- OUTDOOR~~	~~1~~	~~Any pit, box or space below grade level if any part is within a horizontal distance of 10 feet from any edge of pump.~~
	~~2~~	~~Within 3 feet of any edge of pump, extending in all directions. Also up to 18 inches above grade level within 10 feet horizontally from any edge of pump.~~
~~REMOTE PUMP-- IN DOOR~~	~~1~~	~~Entire area within any pit.~~
	~~2~~	~~Within 5 feet of any edge of pump, extending in all directions. Also up to 3 feet above floor or grade level within 25 feet horizontally from any edge of pump.~~
~~LUBRICATION OR SERV ICE ROOM~~	~~1~~	~~Entire area within any pit.~~

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~~2~~	~~Area up to 18 inches above floor or grade level within entire lubrication room~~	
~~DISPENSER FOR Liquids with a flashpoint below below 100°F (37.8°C) (1)~~	~~2~~	~~Within 3 feet of any fill or dispensing point, extending in all directions.~~
~~SPECIAL ENCLOSURE INSIDE BUILDING PER SECTION 5567~~	~~1~~	~~Entire enclosure.~~
~~SALES, STORAGE AND REST ROOMS~~	~~(2)~~	~~If there is any opening to these class-rooms within the extent of a Division 1 area, the - entire room shall be classified as Division 1.~~

~~Footnote (1) Category 1 or 2 flammable liquids, or for Category 3 flammable liquids with a flashpoint below 100 °F (37.8 °C).~~

~~Footnote (2) Ordinary~~

(f) The design, fabrication, and installation of fuel dispensing equipment shall be approved or listed.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 5575 to read:

§5575. Heating Equipment.

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(b) Heating equipment may be installed in a special room separated from an area classified as Division 1 or Division 2 in Sections 5530(d) and 5574(c) ~~Table FL-9~~ by walls having a fire-resistance rating of at least one hour and without any openings in the walls within 8 feet of the floor into an area classified as Division 1 or Division 2 ~~in Table FL-9~~. This room shall not be used for combustible storage, and all air for combustion purposes shall come from outside the building.

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NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 5621 to read:

§5621. Electrical Equipment.

Electrical wiring, electrical utilization equipment, and electrical area classification shall be in accordance with Section 5530.

~~(a) This section shall apply to areas where Category 1 or 2 flammable liquids, or Category 3 flammable liquids with a flashpoint below 100 °F (37.8 °C), Class I liquids are stored or handled. For areas where Class II or Class III liquids only Category 3 flammable liquids with a flashpoint at or above 100 °F (37.8 °C) or Category 4 flammable liquids are stored or handled, the electrical equipment may be installed in accordance with the provisions of the California Electrical Safety Orders for ordinary locations.~~

~~(b) All electrical equipment and wiring shall be of a type specified by and shall be installed in accordance with the California Electrical Safety Orders.~~

~~(c) So far as it applies Table FL-19 shall be used to delineate and classify areas for the purpose of installation of electrical equipment under normal circumstances. In Table FL-19, a classified area shall not extend beyond an unpierced wall, roof or other solid partition. (Title 24, T8-5621)~~

~~Table FL-19~~
~~Electrical Equipment-Classified-Areas-Bulk-Plants.~~

~~*Location*~~	~~*Class 1 Group D Division*~~	~~*Extent of Classified Area*~~
~~Tank Vehicle and Tank Car~~		
~~Loading though Open Dome~~	~~1~~	~~Within 3 feet of edge of dome, extending in all directions.~~
	~~2~~	~~Area between 3 feet and 15 feet from edge of dome,extending in~~

PROPOSED STATE STANDARD,
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		~~all directions.~~
~~Loading thought Bottom Connections with Atmospheric Venting~~	~~1~~	~~Within 3 feet of point of venting to atmosphere, extending in all directions~~
	~~2~~	~~Area between 3 feet and 15 feet from point of venting to atmosphere, extending in all directions. Also up to 18 inches above grade within a horizontal radius of 10 feet from point of loading connections.~~
~~Loading though Closed Dome with Atmospheric Venting~~	~~1~~	~~Within 3 feet of open end of vent, extending in all directions.~~
	~~2~~	~~Area between 3 feet and 15 feet from open end of vent, extending in all directions. Also within 3 feet of dome, extending in all directions~~
~~Loading though Closed Dome with Vapor Recovery~~	~~2~~	~~Within 3 feet of point of connection of both fill and vapor lines, extending in all directions~~

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TITLE 8, DIVISION 1, CHAPTER 4

~~Bottom Loading with Vapor Recovery or Any Bottom Unloading~~	~~2~~	~~Within 3 feet of point of connections, extending in all directions.Also up to 18 inches above grade within a horizontal radius of 10 feet from point of loading connections.~~
~~Drum and Container Filling~~		
~~Outdoors, or Indoors with Adequate Ventilation~~	~~1~~	~~Within 3 feet of vent and fill opening, extending in all directions.~~
	~~2~~	~~Area between 3 feet and 5 feet from vent or fill opening, extending in all directions.Also up to 18 inches above grade within a horizontal radius of 10 feet from vent or fill opening.~~
~~Tank-Aboveground~~		
~~Shell, Ends, or Roof and Dike Area~~	~~2~~	~~Within 10 feet from shell, ends, or roof of tank. Area inside dikes to level of top of dike.~~
~~Vent~~	~~1~~	~~Within 5 feet of open end of vent,~~

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		~~extending in all directions.~~
	~~2~~	~~Area between 5 feet and 10 feet from open end of vent, extending in all directions.~~
~~Floating Roof~~	~~1~~	~~Area above the roof and within the shell~~
~~Pits~~		
~~Without Mechanical Ventilation~~	~~1~~	~~Entire area within pit if any part is within a Division 1 or 2 classified area.~~
~~With Mechanical Ventilation~~	~~2~~	~~Entire area within pit if any part is within a Division 1 or 2 classified area.~~
~~Containing Valves, Fittings, or Piping, and Not Within a Division 1 or 2 Classified Area.~~	~~2~~	~~Entire pit.~~
~~Pumps, Bleeders, Withdrawal Fittings, Meters and Similar Devices~~		
~~Indoors~~	~~2~~	~~Within 5 feet of any edge of such devices, extending in all directions. Also up to 3 feet above floor or grade level within 25 feet~~

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		~~horizontally from any edge of such devices.~~
~~Outdoors~~	~~2~~	~~Within 3 feet of any edge of such devices, extending in all directions. Also up to 18 inches above grade level within 10 feet horizontally from any edge of such devices~~
~~Storage and Repair Garage for Tank Vehicles~~	~~1~~	~~All pits or spaces below floor level.~~
	~~2~~	~~Area up to 18 inches above floor or grade level for entire storage or repair garage.~~
~~Drainage Ditches, Separatores, Impounding Basins~~	~~2~~	~~Area up to 18 inches above ditch, separator or basin. Also up to 18 inces above grade within 15 feet horizontally from any edge.~~
~~Garages for Other Than Tank Vehicles~~	~~Ordinary~~	~~If there is any opening to these rooms within the extent of an outdoor classified area, the entire room shall be classified the same as the area~~

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		~~classification at the point of the opening.~~
~~Outdoor Drum Storage~~	~~Ordinary~~	
~~Indoor Warehousing Where there is no Flammable Liquid Transfer~~	~~Ordinary~~	~~If there is any opening to these rooms within the extent of an indoor classification area, the room shall be classified the same as if the wall, curb, or partition did not exist.~~
~~Office and Rest Rooms~~	~~Ordinary~~	

~~1 When classifying extent of area, consideration shall be given to fact that tank cars or tank vehicles may be spotted at varying points. Therefore, the extremities of the loading or unloading positions shall be used.~~

~~2 For Tanks Underground, See Table FL-9 in Article 144.~~

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 2540.7 read:

§2540.7. Motor Fuel Dispensing Facilities ~~Gasoline Dispensin~~g and Service Stations.

(a) Definition

Motor Fuel Dispensing Facilities. That portion of a property where motor fuels are stored and dispensed from fixed equipment into the fuel tanks of motor vehicles or marine craft or into approved containers, including all equipment used in connection with it. ~~A gasoline dispensing and service station is a location where gasoline or other volatile flammable liquids or liquefied flammable gases are transferred to the fuel tanks (including auxiliary fuel tanks) of self-propelled vehicles~~.

Other areas used as lubritoriums, service rooms, repair rooms, offices, salesrooms, compressor rooms, and similar locations shall comply with Sections ~~2540.6~~ 2540.2 and 2540.5 with respect to electric wiring and equipment. Where it can be determined that flammable liquids having a flashpoint below 38°C (100°F), such as gasoline, will not be handled, such a location may be classified as nonhazardous.

(Title 24, Part 3, Section 514.2 ~~-1~~.)

(b) Hazardous Locations. Title 24, Part 3, California Electrical Code, Article 514 shall be used to delineate classified locations for electrical installations.

~~(1) Vicinity of Dispenser. The space within the dispenser up to 4 feet from its base and the space within 18 inches extending horizontally from the dispenser up to 4 feet from its base shall be considered a Class I, Division 1 location. This classification shall also apply to any space below the dispenser that may contain electric wiring or equipment.~~

~~(2) Within 20 Feet of Dispenser. In an outside location, any area (excluding Class I, Division 1, but including buildings not suitably cut off) within 20 feet horizontally from the exterior enclosure of any dispensing pump shall be classified as a Class I, Division 2 location, which shall extend to a level 18 inches above driveway or ground level.~~

~~(3) Vicinity of Tank Fill-Pipe. In an outside location, any area (excluding Class I, Division 1, but including buildings not suitably cut off) within 10 feet horizontally from any tank fill-pipe shall be classified as a Class I, Division 2 location, which shall extend upward to a level 18 inches above driveway or ground level.~~

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~~(4) Below Surface. Electric wiring and equipment, any portion of which is below the surface grade of locations defined as Class I, Division 1 or Division 2 in (1), (2) or (3) above, shall be classified as a Class I, Division 1 location, which shall extend at least to the point of emergency above grade.~~

~~(5) Overhead Dispensing Units. Where the dispensing unit, including the hose and hose nozzle valve, is suspended from a canopy, ceiling, or structural support, the Class I, Division 1 location shall include the volume within the enclosure and shall also extend 18 inches in all directions from the enclosure where not suitably cut off by a ceiling or wall. The Class I, Division 2 locations shall extend 2 feet horizontally in all directions beyond the Division I classified location and extend to grade below this classified location. In addition, the horizontal area 18 inches above grade for a distance of 20 feet, measured from a point vertically below the edge of any dispenser enclosure, shall be classified as a Division 2 location. All electric equipment integral with the dispensing hose or nozzle shall be approved for Class I locations.~~

~~(6) Vicinity of Tank Vent Pipe. The spherical volume within a 3-foot radius from point of discharge of any tank vent-pipe shall be classified as a Class I, Division 1 location, and the volume between 3-foot to 5-foot radius from point of discharge of a vent shall be classified as a Class I, Division 2 location. For any vent that does not discharge upward, the cylindrical volume below both the Division 1 and 2 locations extending to the ground shall be classified as a Class I, Division 2 location. The hazardous location shall not extend beyond an unpierced wall.~~

~~(7) Pits Below Grade. In addition to the requirements of Section 2540.8(a) (Definition), the space within any pit, or space below grade in lubrication rooms, shall be classified as a Class I, Division 1 location. The area within the entire lubrication room up to 18 inches above the floor or grade, and the space within 3 feet measured in any direction from the dispensing point of a hand-operated unit dispensing Class I liquids, shall be classified as a Class I, Division 2 location.~~

~~(8) Vapor Processing (Recovery) System.~~

~~(A) Pits. Any pit, box or space below grade level, any part of which is within a Division 1 or 2 classified area or which houses any equipment used to transport or process vapors shall be classified as a Class I, Division 1 location.~~

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

~~(B) Vapor Processing Equipment Located Within Protective Enclosures. The space within any protective enclosure housing vapor processing equipment shall be classified as a Class I, Division 2 location.~~

~~(C) Vapor Processing Equipment Not Within Protective Enclosures (excluding piping and combustion device). The space within 18 inches in all directions of equipment containing flammable vapor or liquid extending to grade level and up to 18 inches above grade level within 10 feet horizontally of the vapor processing equipment shall be classified as a Class I, Division 2 location.~~

~~(D) Equipment Enclosures. Any area within the enclosure where vapor or liquid is present under normal operating conditions shall be classified as a Class I, Division 2 location. The entire area within the enclosure, other than Division 1, shall be classified as a Class I, Division 2 location.~~

~~(E) Vacuum Assist Blowers. The space within 18 inches in all directions extending to grade level and up to 18 inches above grade level within 10 feet horizontally shall be classified as a Class I, Division 2 location.~~

~~(Title 24, Part 3, Section 514-2.)~~

(c) Circuit Disconnects. Each circuit leading to or through a dispensing pump, including all associated power, communications, data, and video circuits, and equipment for remote pumping systems, shall be provided with a switch or other approved ~~acceptable~~ means, located remote from dispensing devices, to disconnect simultaneously from the source of supply all conductors of the circuit, including the grounded neutral, if any.

(d) Single-pole breakers utilizing handle ties shall not be permitted.

(Title 24, Part 3, Section 514.11 ~~5~~.)

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code; and Section 18943(c), Health and Safety Code.

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 2540.8. to read:

§2540.8. Bulk-Storage Plants

(a) Definition. Bulk Plant or Terminal. That portion of a property where~~A bulk-storage plant is a location where gasoline or other volatile~~ flammable liquids are received by ~~stored in~~ tank~~s~~ vessels, pipelines, tank car, or tank vehicle and are stored or blended in bulk for the purpose of distributing such liquids by tank vessel, pipeline, tank car, tank vehicle, portable tank, or container.~~having an aggregate capacity of one carload or more, and from which such products are distributed (usually by tank truck). This shall also include locations where volatile flammable liquids are loaded or unloaded from tanker ships.~~
~~(Title 24, Part 3, Sections 515-1~~)

(b) Hazardous Locations. Title 24, Part 3, California Electrical Code, Article 515 shall be used to delineate classified locations for electrical installations.

~~(1) Pumps, Bleeders, Withdrawal Fittings, Meters and Similar Devices.~~

~~(A) Adequately ventilated indoor locations containing pumps, bleeders, withdrawal fittings, meters and similar devices that are located in pipe lines handling flammable liquids under pressure shall be classified as a Class I, Division 2 location with a 5-foot distance extending in all directions from the exterior surface of such devices. The Class I, Division 2 location shall also extend 25 feet horizontally from any surface of these devices and extend up to 3 feet above the floor or grade level.~~

~~(B) Inadequately ventilated indoor locations containing pumps, bleeders, withdrawal fittings, meters and similar devices that are located in pipe lines handling flammable liquids under pressure shall be classified as a Class I, Division 1 location within a 5-foot distance extending in all directions from the exterior surface of such devices. The Class I, Division 1 location shall also extend 25 feet horizontally from any surface of the devices and extend upward to 3 feet above floor or grade level.~~

~~(C) Outdoor locations containing pumps, bleeders, withdrawal fittings, meters, and similar devices that are located in pipe lines handling flammable liquids~~

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~~under pressure shall be classified as Class I, Division 2 locations within a 3- foot distance extending in all directions from the exterior surfaces of such devices. The Class I, Division 2 location shall also extend up to 18 inches above grade level within 10 feet horizontally from any surface of the devices.~~

~~(Title 24, Part 3, Section 515-2.)~~

~~(2) Transfer of Flammable Liquids to Individual Containers.~~

~~(A) In outdoor locations or wherever positive and reliable mechanical ventilation is provided in indoor locations in which flammable liquids are transferred to individual containers, such locations shall be classified as a Class I, Division 1 location within 3 feet of the vent or fill opening extending in all directions. A Class I, Division 2 location shall be within the space extending between 3-foot and 5-foot radius from the vent or fill opening extending in all directions, and including the area within a horizontal radius of 10 feet from the vent or fill opening and extending to a height of 18 inches above floor or grade levels.~~

~~(B) Indoor locations in which flammable liquids are transferred to containers and where positive and reliable mechanical ventilation is not provided shall be classified as Class I, Division 1 locations.~~

~~(Title 24, Part 3, Section 515-2.)~~

~~(3) Loading and Unloading of Tank Vehicles and Tank Cars in Outside Locations.~~

~~(A) The space extending 3 feet in all directions from the dome when loading through an open dome or from the vent when loading through a closed dome with atmospheric venting shall be classified as a Class I, Division 1 location.~~

~~(B) The space extending between a 3-foot and 15-foot radius from the dome when loading through an open dome or from the vent when loading through a closed dome with atmospheric venting shall be classified as a Class I, Division 2 location.~~

~~(C) The space extending within 3 feet in all directions from a fixed connection used in bottom loading or unloading, loading through a closed dome with atmospheric venting, or loading through a closed dome with a vapor recovery system, shall be classified as a Class I, Division 2 location. In the case of bottom loading or unloading, this classification shall also be applied to the area within a 10-foot~~

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~~radius from the point of connection and extending 18 inches above grade.~~

~~(Title 24, Part 3, Section 515-2.)~~

~~(4) Aboveground Tanks.~~

~~(A) The space above the roof and within the shell of a floating roof type tank shall be classified as a Class I, Division 1 location.~~

~~(B) For all types of aboveground tanks, the space within 10 feet from the shell, ends, and roof of other than a floating roof shall be classified as a Class I, Division 2 location. Where dikes are provided, the space inside the dike and extending upward to the top of the dike shall be classified as a Class I, Division 2 location.~~

~~(C) The space within 5 feet of a vent opening and extending in all directions shall be classified as a Class I, Division 1 location.~~

~~(D) The space between 5 and 10 feet of a vent opening and extending in all directions shall be classified as a Class I, Division 2 location.~~

~~(Title 24, Part 3, Section 515-2.)~~

~~(5) Pits.~~

~~(A) Any pit or depression, any part of which lies within a Division 1 or Division 2 location as defined herein, shall be classified as a Class I, Division 1 location unless provided with positive and reliable mechanical ventilation.~~

~~(B) Any such location that is provided with positive and reliable mechanical ventilation shall be classified as a Class I, Division 2 location.~~

~~(C) Any pit or depression not within a Division 1 or Division 2 location as defined herein, but that contains piping, valves, or fittings, shall be classified as a Class I, Division 2 location.~~

~~(Title 24, Part 3, Section 515-2.)~~

~~(6) Docks for Loading and Unloading of Tanker Ships. Docks used for loading and unloading of tanker ships shall conform to Figure 1, "Marine Terminal Handling~~

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~~Flammable Liquids".~~

~~(Title 24, Part 3, Section 515-1(a).)~~

~~(A) The interior of a building, any portion of which is located in such Class I, Division 2 locations shall also be classified as a Class I, Division 2 location.~~

~~Exception: Buildings which are provided with satisfactory positive ventilation, and safeguards, with air taken from a clean air source may be considered to be a nonhazardous location.~~

~~(B) All electrical power driven pumps and transfer apparatus for flammable liquids shall be provided with an identified 'STOP' or normal control switch readily accessible to the person operating the equipment.~~
~~(Title 24, Part 3, Section 515-(a).)~~

~~(7) Garages for Tank Vehicles. Storage and repair garages for tank vehicles shall be classified as a Class I, Division 2 location up to 18 inches above the floor or grade level.~~

~~Exception: Where conditions warrant, a more severe classification or greater extent of the hazardous location may be required.~~

~~(Title 24, Part 3, Section 515-2.)~~

(c) Gasoline Dispensing. Where gasoline dispensing is carried on in conjunction with bulk station operations, the applicable provisions of Sections 2540.7 and 2540.8 shall apply.
~~(Title 24, Part 3, Section 515-7.)~~

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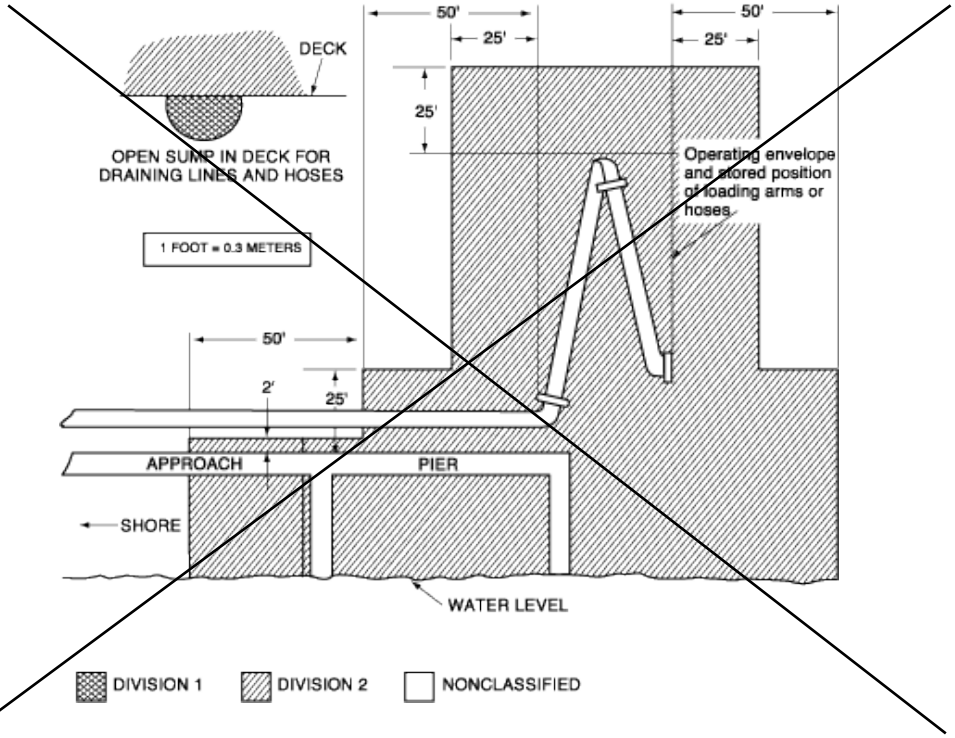

~~Notes:~~

~~(1) The "source of vapor" shall be the operating envelope and stored postion of the outboard flange connection of the loading arm (or hose).~~
~~(2) The berth area adjacent to tanker and barge cargo tanks is to be Division 2 of the following extent:~~

~~a. 25 ft. (7.6 m) horizontally in all directions on the pier side from that portion of the hull containing cargo tanks.~~
~~b. From the water level to 25 ft. (7.6 m) above the cargo tanks at their highest position.~~

~~(3) Additional locations may have to be classified as required by the presence of other sources of flammable liquids on the berth, or by Coast Guard or other regulations.~~

~~Figure 1. Marine Terminal Handling Flammable Liquids~~

Note: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code; and Section 18943(b), Health and Safety Code.