UST Owner, Designated Operator & Service Technician Workshop

April 26, 2012

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Supervising Environmental Health Specialist
Hazardous Materials Division

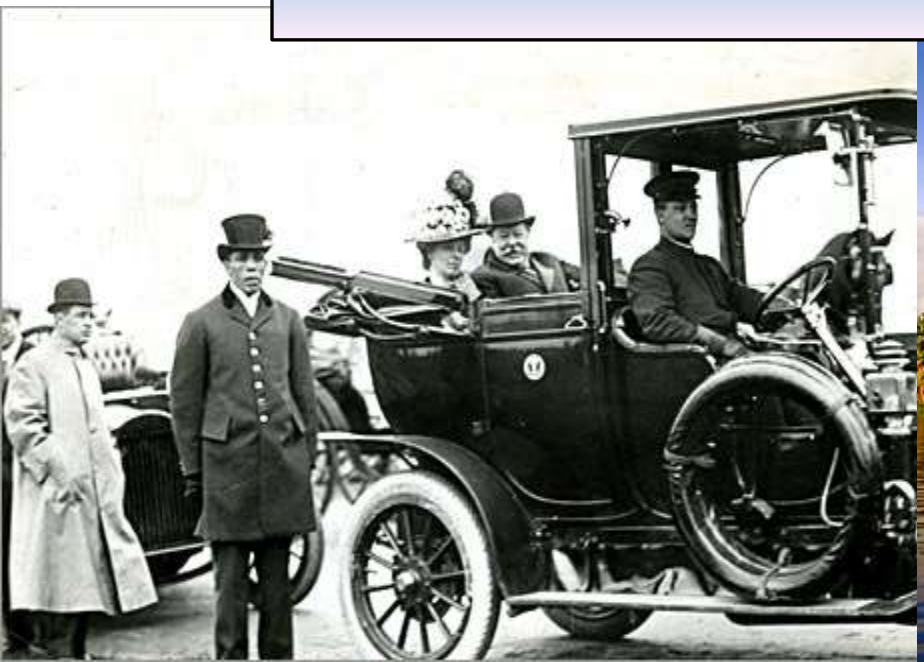
AGENDA

- UST OVERVIEW & UPDATES
- CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)
- BIODIESEL: AN INDUSTRY OVERVIEW

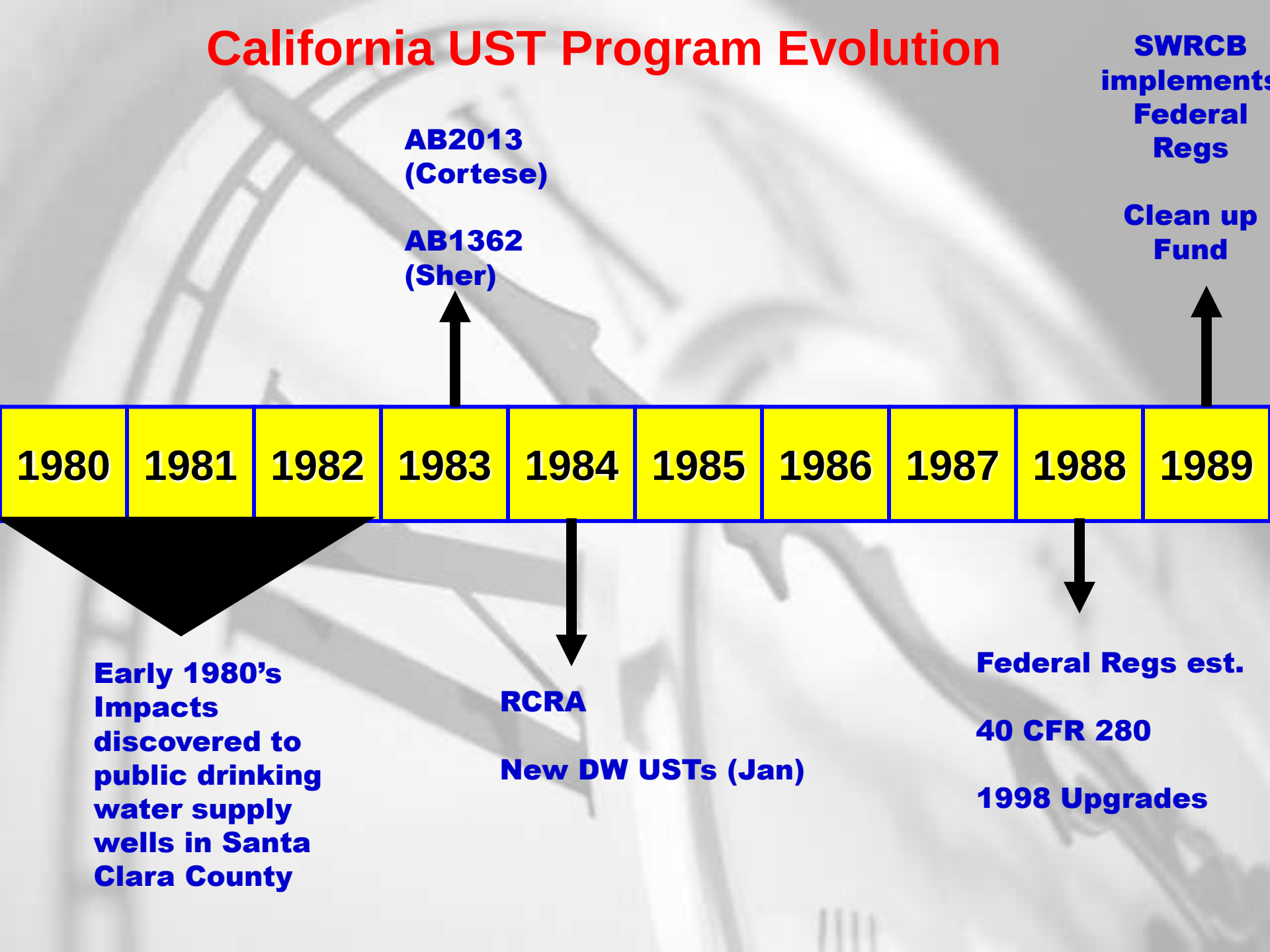
*BREAK *

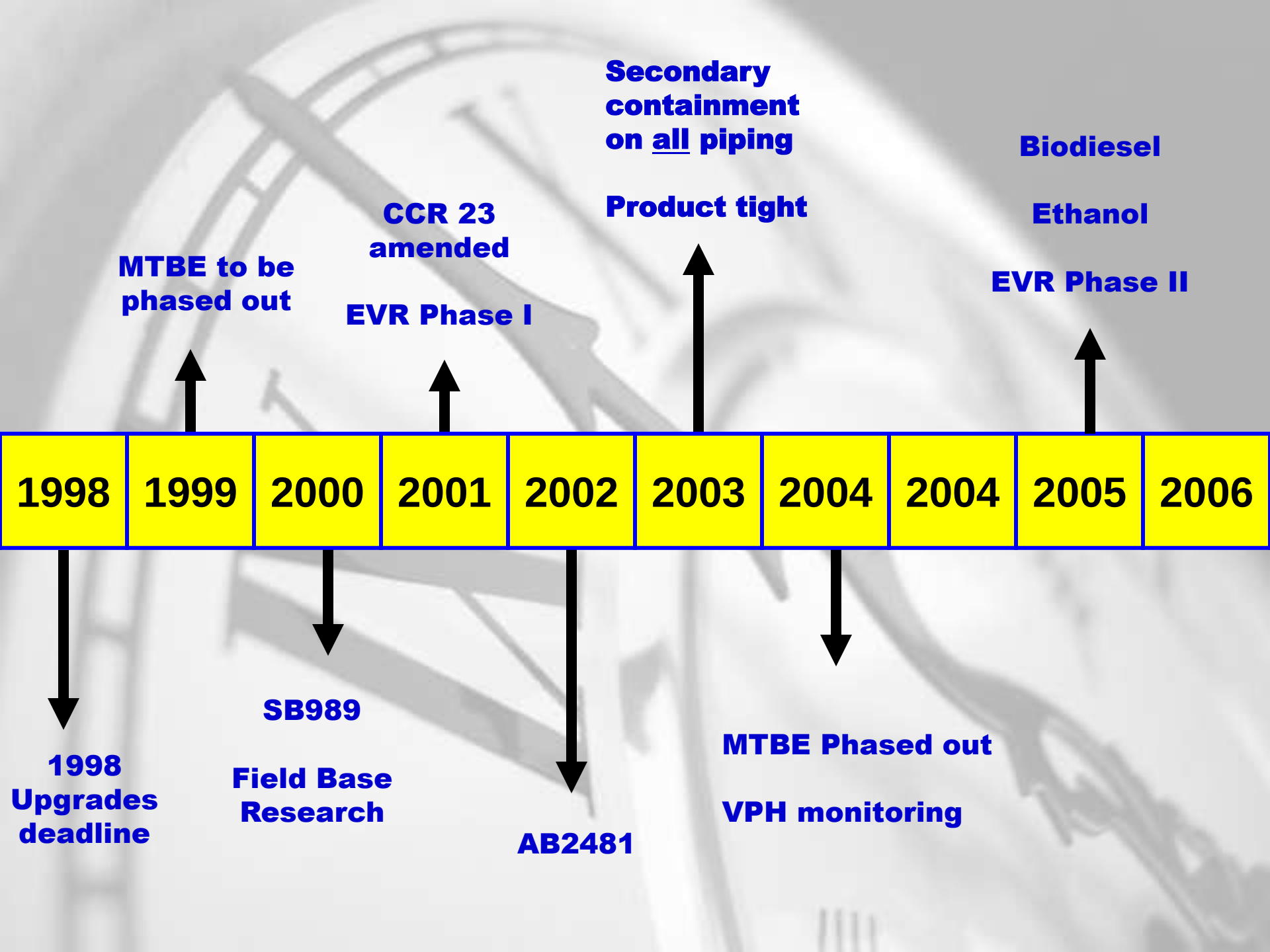
- COMMON UST FIELD ISSUES
- UST PLAN CHECK PERMITTING
- ENHANCED VAPOR RECOVERY FOR ASTS
- UST & AST SYSTEMS
- QUESTIONS

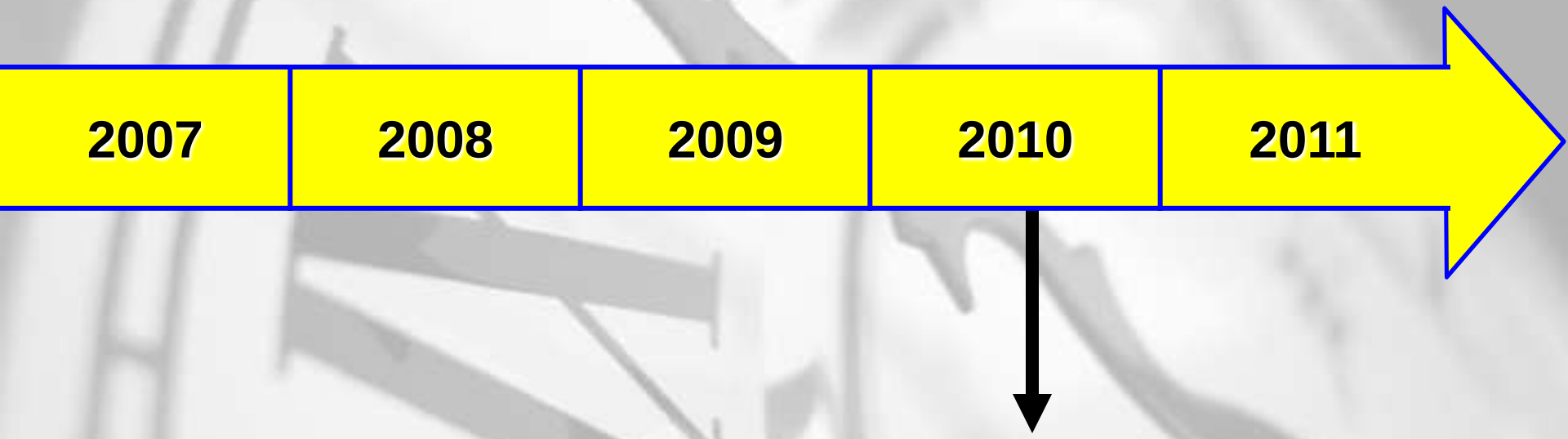
Looking back



California UST Program Evolution



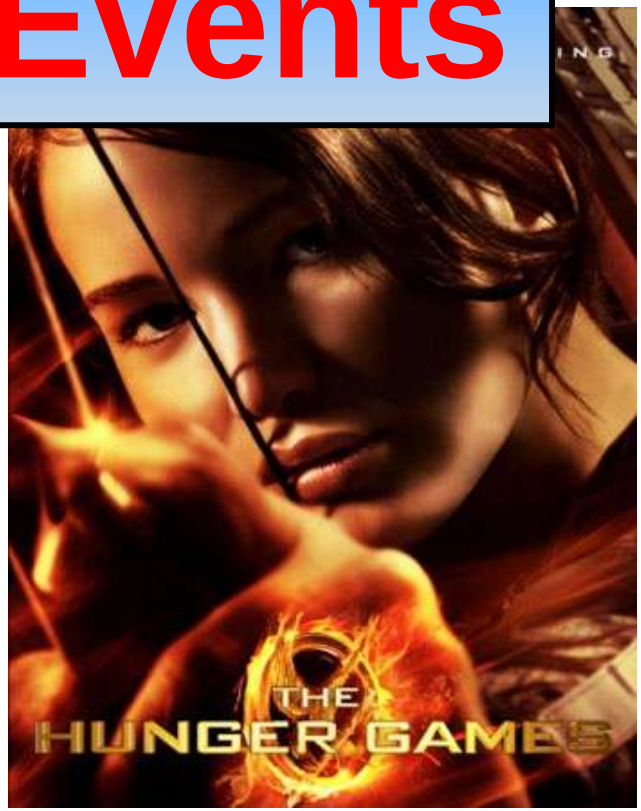

Secondary containment on all piping
Product tight
Biodiesel
Ethanol
EVR Phase II
CCR 23 amended
EVR Phase I
MTBE to be phased out
1998
1999
2000
2001
2002
2003
2004
2004
2005
2006
1998 Upgrades deadline
SB989
Field Base Research
AB2481
MTBE Phased out
VPH monitoring



EVR Phase II deadline

Emergency biodiesel regulations

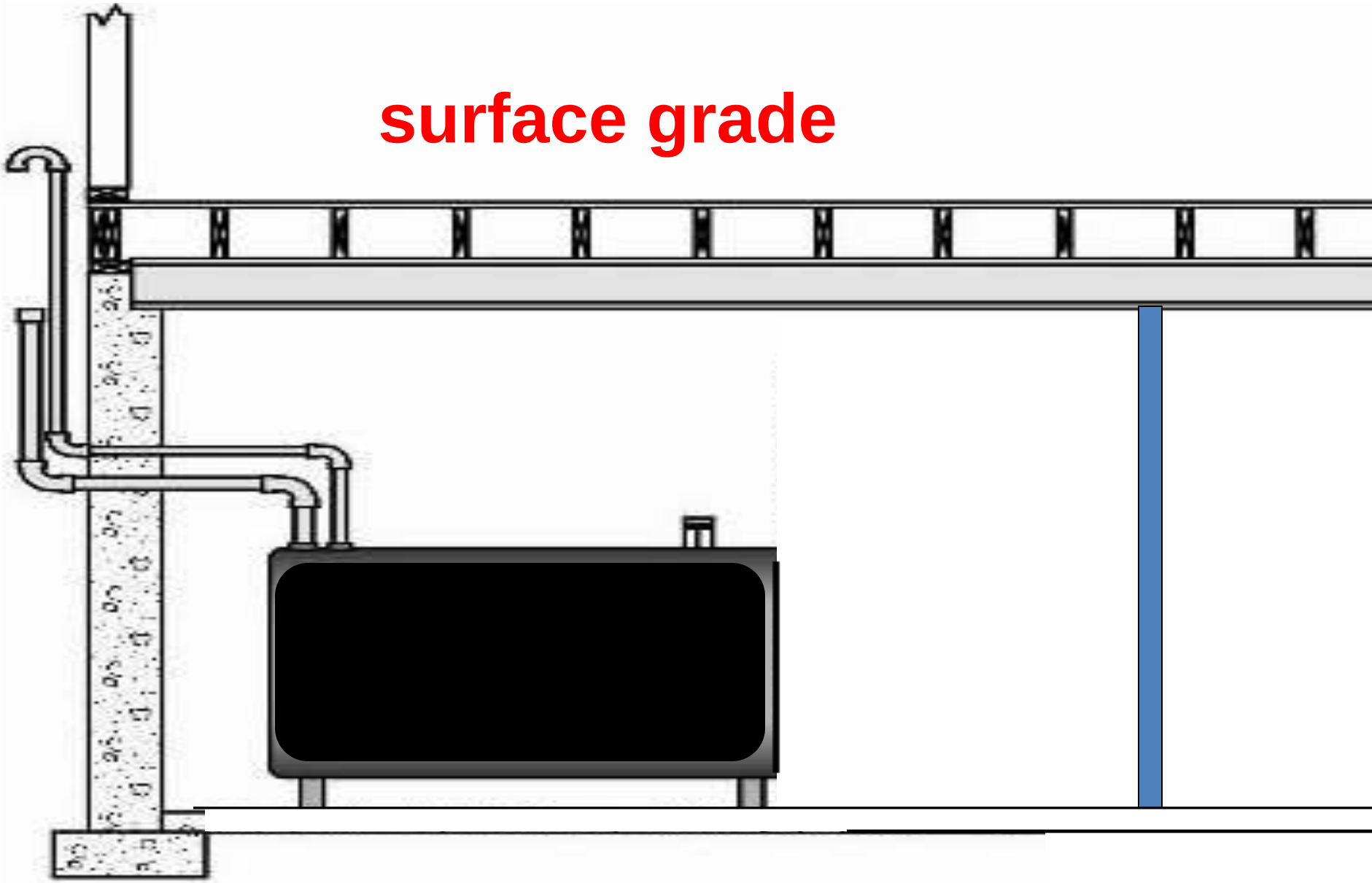
Current Events



AB1674 (Saldana)

- Effective January 1, 2011

- Changes to UST exclusions
  - Tanks in Subsurface Containment
  - Emergency Generators


surface grade

Exemption: Subsurface Structures
HSC § 25283.5

PREVIOUS VERSION

1. All exterior surfaces of tank, including connected piping & floor directly beneath tank can be monitored by direct viewing
2. The structure provides for secondary containment of the tank contents
3. The owner/operator conducts weekly inspections of the tank and maintains a log of inspection results for review
4. The local agency determines, without objection from the Board, that the UST meets requirements that are equal to or more stringent than those imposed by regulation.

The Issue

UST Systems Installed After July 1, 2004

- "pipe“ includes vent lines, vapor recovery lines, and fill pipes are part of the UST system

- VPH Monitoring

AB1674
HSC § 25283.5

(a) An underground storage tank that meets all of the following criteria is exempt from the requirements of this chapter:

(1) All exterior surfaces of the tank, including connected piping, and the floor directly beneath the tank, can be monitored by direct viewing.

(2) The structure in which the tank is located is constructed in such a manner that the structure, at a minimum, provides for secondary containment of the contents of the tank, as determined by the local agency designated pursuant to Section 25283.

(3) The owner or operator of the underground storage tank conducts weekly inspections of the tank and maintains a log of inspection results for review by the local agency designated pursuant to Section 25283, as requested by the local agency.

(4) Except as provided in paragraph (5), the local agency designated pursuant to Section 25283 determines that the underground storage tank meets requirements that are equal to or more stringent than those imposed by this chapter.

AB1674
HSC § 25283.5

(5) If the underground storage tank is installed on or after July 1, 2003, notwithstanding Sections 25290.1 and 25290.2, the local agency determines the tank meets both of the following:

(A) Requirements that are equal to, or more stringent than, the requirements of paragraphs (1) to (6), inclusive, of subdivision (a) and subdivisions (b) to (i), inclusive, of Section 25291.

(B) Notwithstanding Section 25281.5, any portion of a vent line, vapor recovery line, or fill pipe that is beneath the surface of the ground is subject to regulation as a "pipe," as defined in subdivision (m) of Section 25281.

(b) This section does not prohibit a local fire chief or an enforcement agency, as defined in Section 16006, from enforcing the applicable provisions of the local or state fire, building, or electrical codes.

AB1674
HSC § 25283.6

(a) A tank located in a below-grade structure and connected to an emergency generator tank system, as defined in subdivision (c) of Section 25281.5, is exempt from the requirements of this chapter if all of the following conditions are met:

(1) The tank is situated above the surface of the floor in such a way that all of the surfaces of the tank can be visually inspected by either direct viewing, through the use of visual aids, including, but not limited to, mirrors, cameras, or video equipment, or monitored through the use of a continuous leak detection and alarm system capable of detecting unauthorized releases of hazardous substances.

(2) For a single-walled tank, in addition to all the other requirements in this section, the structure, or a separate discrete secondary structure able to contain the entire contents of the liquid stored in the tank, is sealed with a material compatible with the stored product.

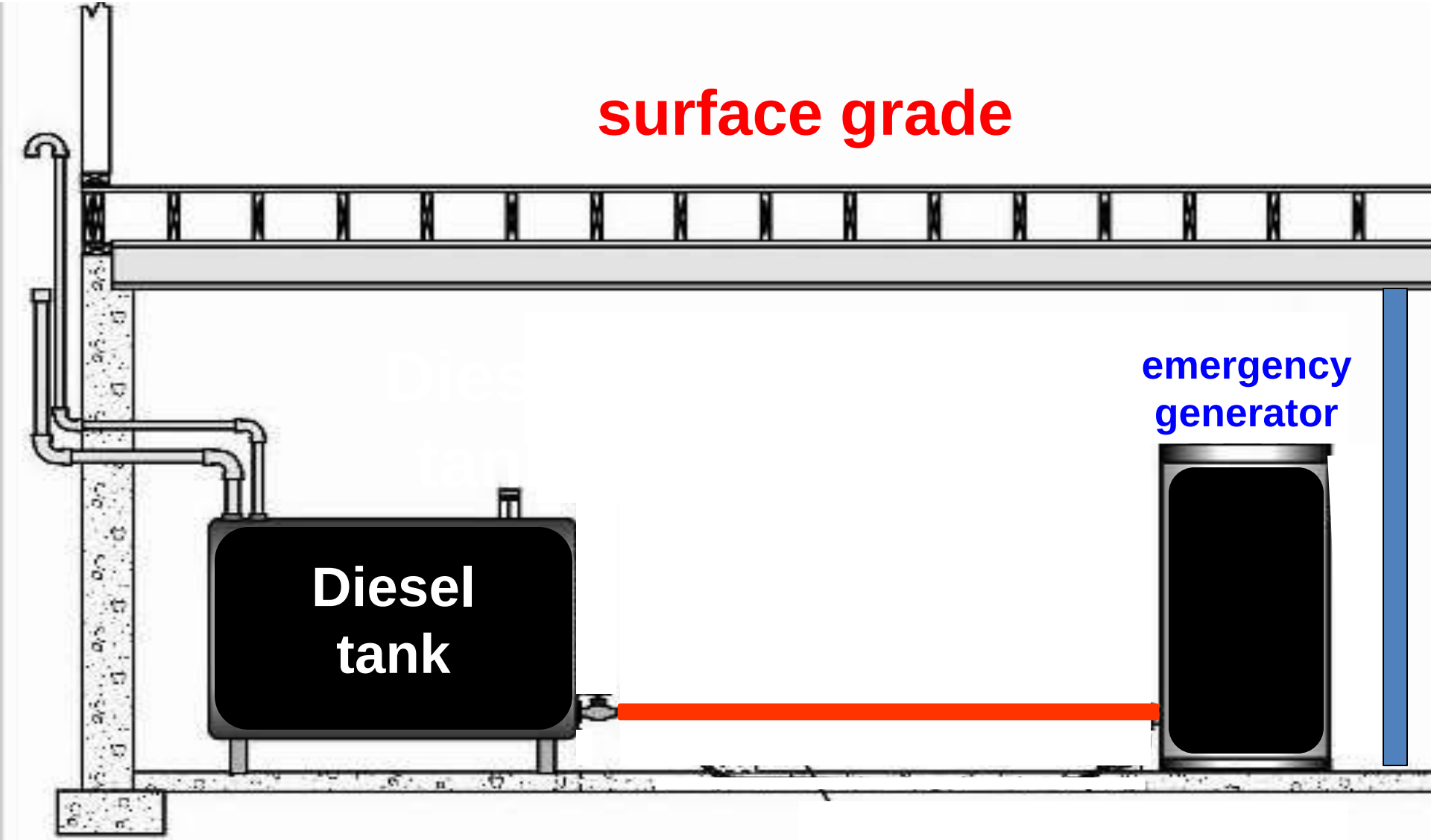
AB1674
HSC § 25283.6

(3) The owner or operator of the tank conducts visual inspections of the tank each time the emergency generator tank system is operated, or at least once a month, and maintains a log of inspection dates for review by the local agency.

(4) The tank or combination of tanks in the below-grade structure has a cumulative capacity of 1,100 gallons or less of diesel fuel.

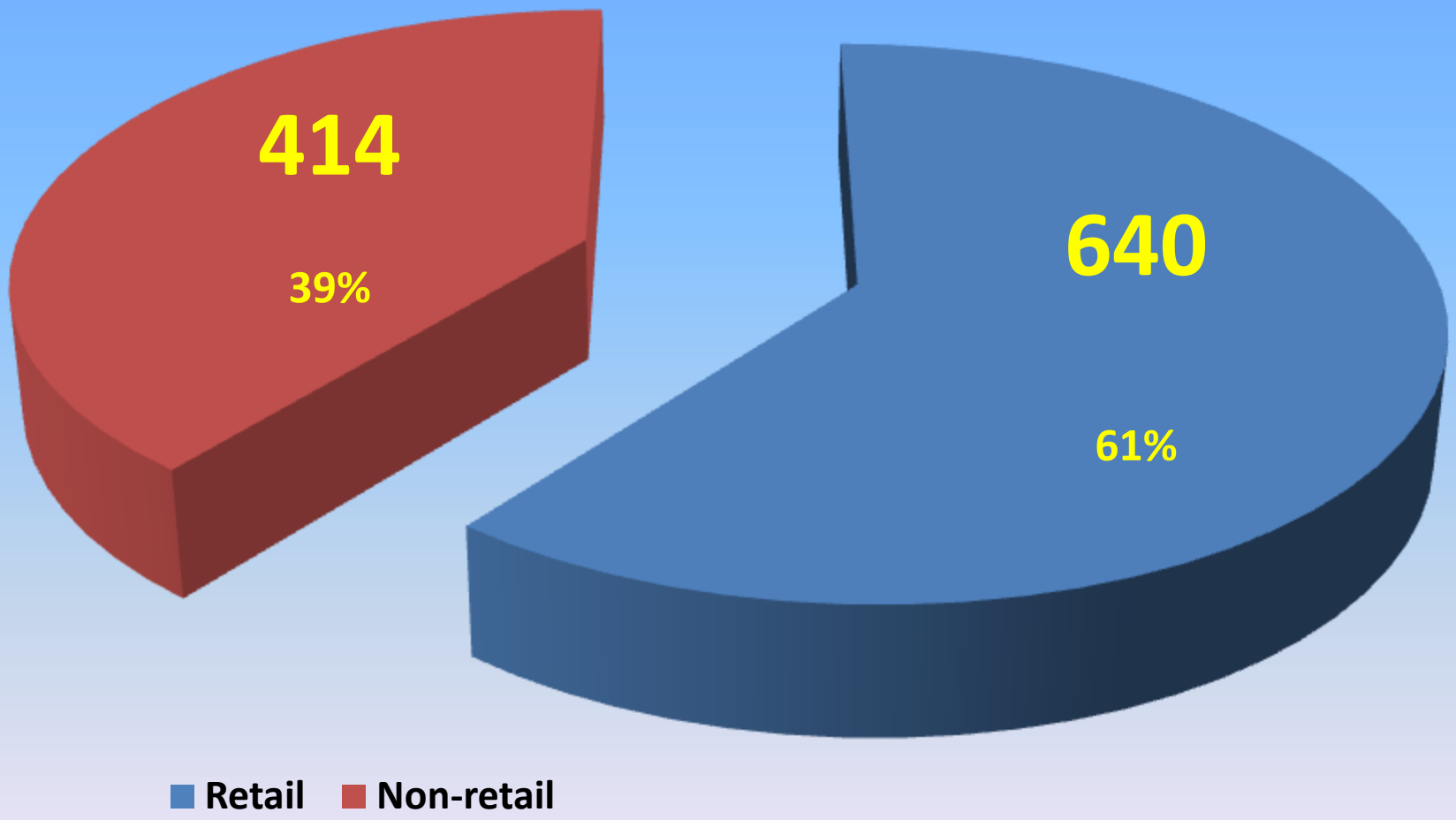
(b) Nothing in this section excludes an emergency generator tank system from other applicable laws, codes, and regulations.

(c) The exclusion provided by this section does not apply if the board adopts regulations pursuant to Section 25299.3 that address the design, construction, upgrade, and monitoring of underground storage tanks contained in below-grade structures that are connected to emergency generator tank systems.


surface grade
emergency generator
Diesel tank

By the Numbers

Underground Storage Tank sites: Retail vs. Non-retail (Y2012)



Total = 1054

VPH facilities - 46

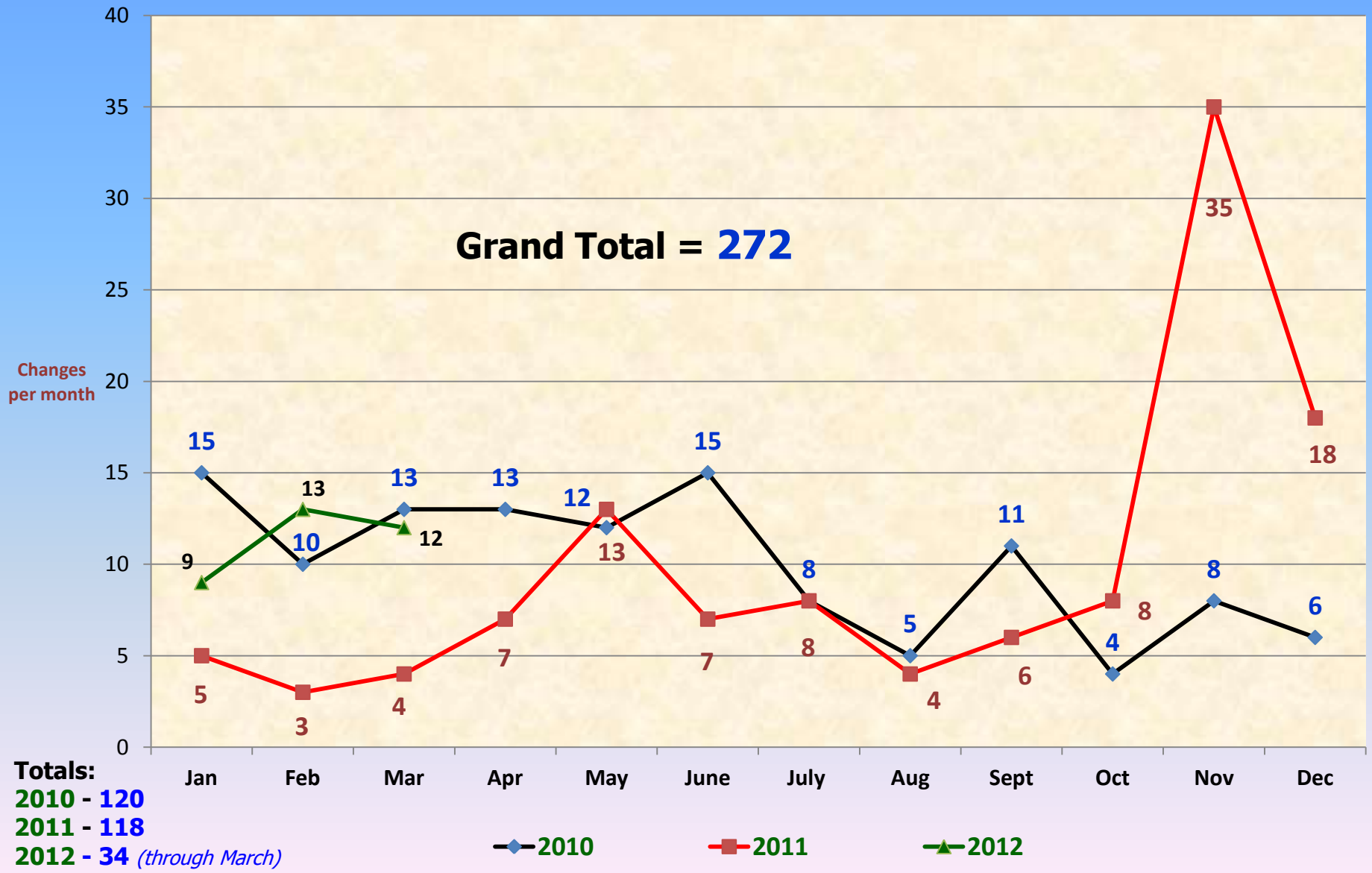
Biodiesel facilities - 27

Ethanol facilities- 14

Interior lined facilities - 27

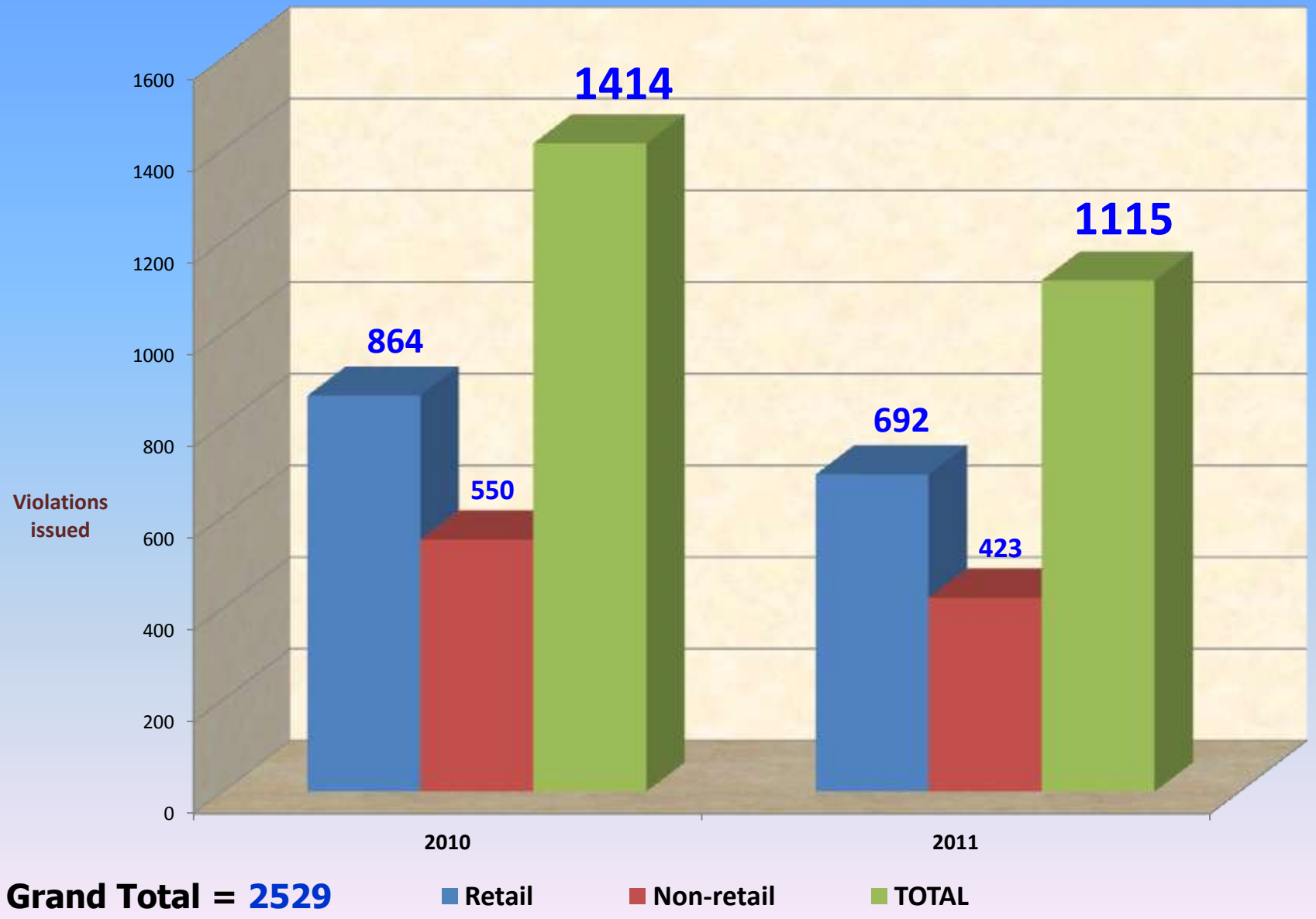
Changes of Ownership (annual)
(Y2010 - 11)

Changes of Ownership (monthly)
(Y2010 - 11)



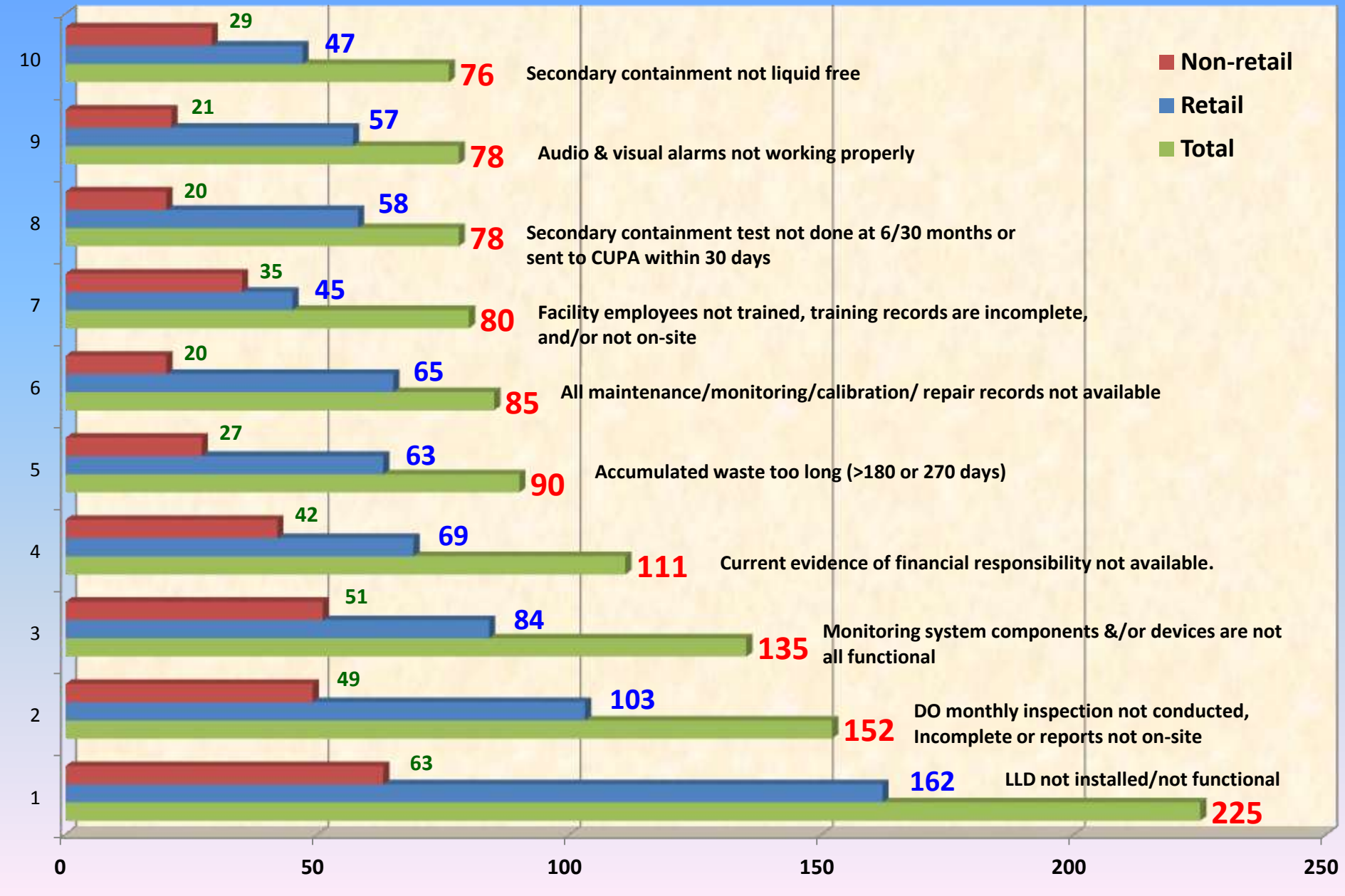
Totals:
2010 - 120
2011 - 118
2012 - 34 *(through March)*

Underground Storage Tank (UST) Violations (Y2010 - 11)

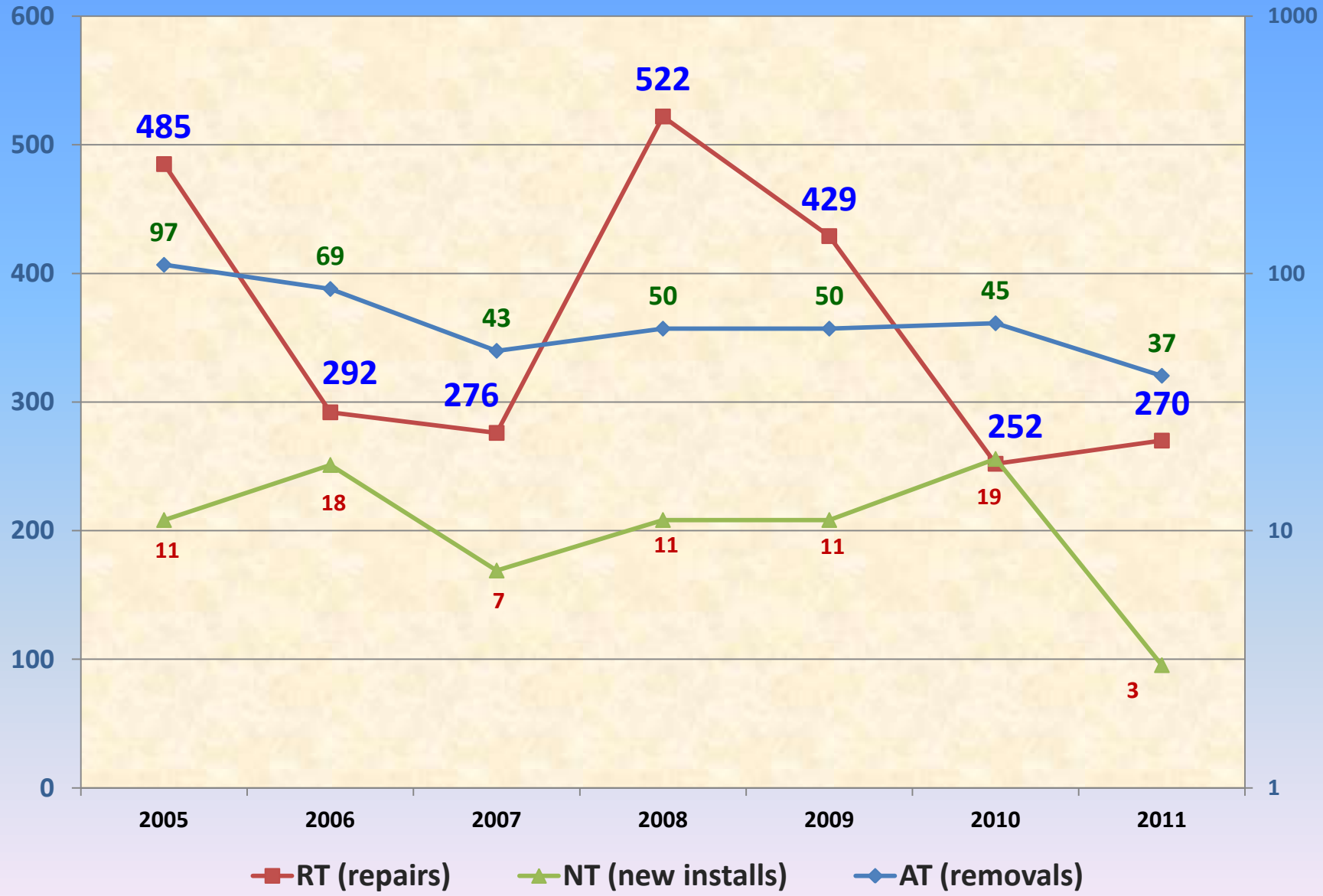


Grand Total = 2529

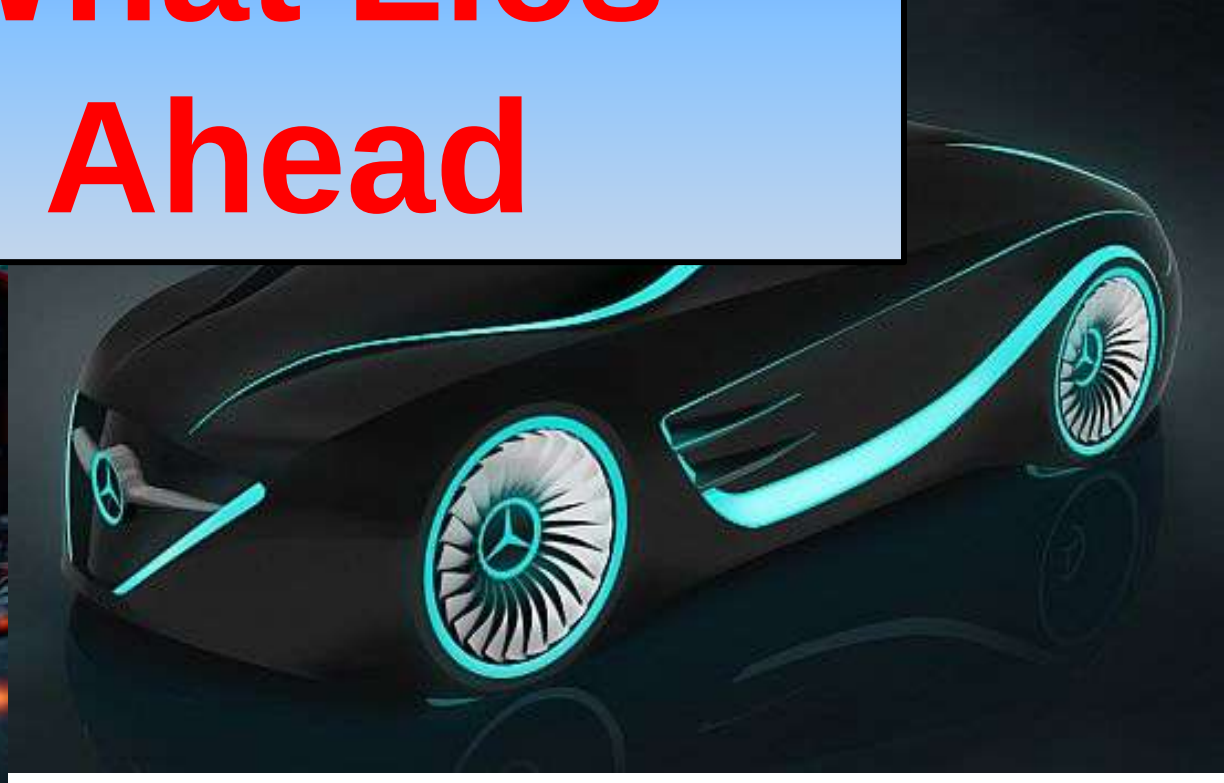
Top 10 Violations (Y2010 - 11)



Plan Check Permits by type (Y2005 – Present)



What Lies Ahead



Infrastructure and Technology

- New Data Management System
- Mobile devices
- Paperless inspections
- On line plancheck permitting

California Environmental Reporting System (CERS)

CERS Central

Home | Business Portal | Regulator Portal | General Public | Contacts

- Home
- Businesses
- Regulators
- Annoucements
- EDT
- Data Seeding
- Training

Businesses
Business Portal Sign In

- Training Portal Sign-In
- CERS General Annoucements/Blog
- CERS Chemical Library
- Unified Program Internet Site
- CERS Business User Group Contact: Tod Ferguson

Regulators
Regulator Portal Sign In

- Training Portal Sign In
- CERS Regulator Users Group (CRUG)
- Unified Program Violation Library (Factsheet)
- CERS Data Registry
- Unified Program Internet Site

CERS Training Portals

If you would like to gain familiarity with using CERS, you can begin using the Business Training Portal and/or the Regulator Training Portal. These training portals are fully functional copies of CERS. Existing CERS users can sign in to the training portals with their CERS1 sign in, and other users can create new accounts. Neither training portal contains any business or facility data, but users can create new businesses and facilities in the Business training portal, and regulator users (once approved by CERS Technical Support staff) can view and act upon these facilities and their submittals.

Recent Annoucements/Blog Postings (All Announcement Lists/Blogs...)

- Final CERS Data Seeding Documentation/Templates Available (Apr 17, 2012)
- Upcoming CERS Regulator User Group Meeting on Tues., April 10 from 8:30-10:00 (Apr 05, 2012)
- Avoid Entering Test/Training Data in Production CERS--Use CERS Training (Mar 17, 2012)
- Notes available for March 13, 2012 CERS Regulator User Group Meeting (CRUG) (Mar 15, 2012)
- Upcoming CERS Regulator User Group Meeting on Tues., Mar.13 from 8:30-10:00 (Mar 01, 2012)
- CERS Data Seeding Q&A Web Conference, Wed. Feb.29 9-10am (Feb 28, 2012)
- CERS2 Updates: Faster / Fewer Submittals / Violation Library / Bugs & Enhancements / Official URL (Jan 11, 2012)
- CERS2 Regulator and Business Portals Now Available at http://cers.calepa.ca.gov (Jan 06, 2012)
- Upcoming CERS Regulator User Group Meeting on Tues., Jan.10 from 8:30-10:00 (Jan 03, 2012)
- CERS2 Training Release Version 2.00 (Build 0001) (Dec 20, 2011)

Other CERS Links

- CERS Enhancements Listing (Scheduled and Proposed)
- CERS Change Management Committee
- CERS2 EDT Home Page
- CERS2 EDT Implementation Listserv

For additional assistance, please contact the CERS Help Center at cers@calepa.ca.gov.

EPA Proposed Revisions to 40 CFR Parts 280 and 281

Impact to California Laws and Regulations

- Modifications to the Designated Operator Program
- Modification to emergency generator exclusions
- Modification to regulation of airport hydrant systems, bulk field constructed tanks and wastewater treatment tanks

EPA Proposed Revisions to 40 CFR Parts 280 and 281

Impact to California Laws and Regulations

- Add annual overfill prevention testing
- Remove flow restrictors from vent lines
- Compatibility documentation for blends starting at E10 and B20
- Removing the link between repair and release
- Groundwater and vadose monitoring no longer allowed

Proposed Regulatory Action

- Modify Article 3, Section 2631
- Option for compliance with independent testing and approval requirements
- Allows UST owners/operators to store alternative fuels/substances in USTs in a manner that does not create any significant risk of adverse impacts to water quality

Proposed Regulatory Action

For the Legislative Language challenged:

When UL does not include specific substance to be stored in the product listing (approval), owner/operator may submit an affirmative statement of compatibility from the manufacturer to comply with the performance standards otherwise outlined in Section 2631.

Proposed Regulatory Action

- Effective June 1, 2012
- Double walled components only
- Statements only from the manufacturer of the Component
- Biodiesel Variance no longer applies
- Biodiesel blends above B5 will need to comply with the new proposed regulations
- Regulation to be finalized by OAL

Proposed Regulatory Action

April 19, 2012

- Request of information from UST Manufacturers

- DW tanks, DW piping, connector fittings, flex connectors, risers, UDCs, containment sumps, spill buckets or any containment component that may come in contact with the stored product

- Manufacturer affirmative statement of compatibility shall include specific information

Proposed CUPA Forum Legislation

- AB1566

- This bill would revise the definition of the term "underground storage tank" to additionally exclude a tank in an underground area, and associated piping, that is subject to the act.

- Exempt petroleum tanks in subsurface containment structures greater than 1,320 gallons move to the aboveground storage tank program

ICC Exam Revisions

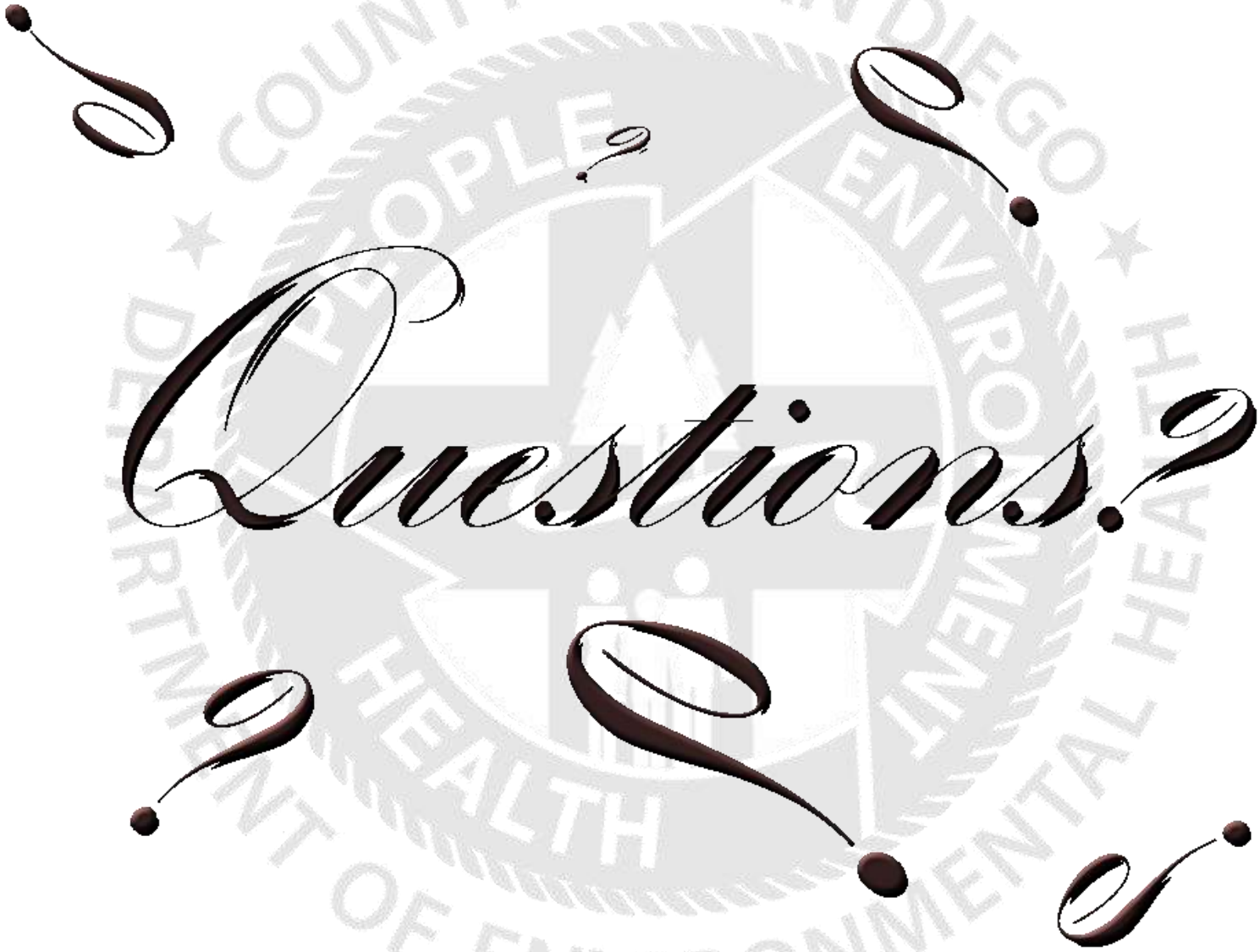
Effective July 1, 2012

- System Operator (UC), Inspector (UI), Service Technician (UT)
- Incorporates new regulations since 2007
- Incorporates current industry standards and best management practices
    - PEI 500*
    - PEI 900*

* These references will not be available at the testing center

Continuing issues

- ARB/APCD interfacing with continuous monitoring systems.
- Liquid replenishment of double-walled containment
- Single-walled tanks


Questions?