

Presenters

David Snyder

Creek Electric, Electrical Superintendent

Mr. Snyder received his electrical education in the U.S. Navy and has over 32 years of experience in the electrical field. His electrical experience includes residential, commercial, industrial, maintenance and electrical training both in the field and a classroom setting. His power generation experience includes nuclear, coal, gas turbine, oil fired, trash burner and wind generation facilities.

David has journeyman and master electrical license in Pennsylvania, Ohio, New York, West Virginia, Texas, Wyoming, Colorado, Oklahoma, Missouri and he is certified to teach in Florida and Pennsylvania.

Cindy Castronovo

California Air Resources Board

Ms. Castronovo is the Engineering Evaluation Section Manager with the Monitoring and Laboratory Division at CARB, which includes service station inspections, fuel surveys, stack testing for toxic air pollutants and test method development projects. She obtained a Bachelors degree in Biochemistry from the University of California at Davis, and has also completed graduate course work in chemical engineering. She is a member of the Air and Waste Management Association and the American Chemical Society.

In the last ten years, Cindy has been responsible for updating vapor recovery regulations. This includes the Enhanced Vapor Recovery (EVR) program, which will entail vapor recovery equipment upgrades to most California service stations.

Fee and Registration

To register, please complete the registration form and return it with your fee to the address on the bottom of the registration form by **December 9, 2008**. The fee may be paid by check (made payable to County of Yolo Planning and Public Works Department).

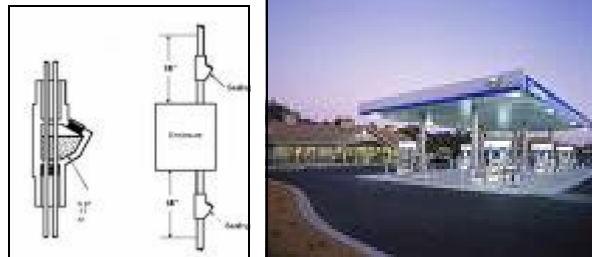
Attendees will receive a certificate of attendance, and a course handout. Registration fees cover all instruction, handouts and refreshments.

CLASS

In this training we will attempt to break down the Articles in Chapter 5 of the California Electrical Code associated with Hazardous Classified Locations. Specific attention will be placed on Article 500 and its role in each subsequent Article. We will focus on Definitions from Article 100 in the California Electrical Code, Underwriters Laboratories, International Association of Electrical Inspectors and the Appleton 2005 N.E.C. Code Review.

Who Should Attend

This training is geared towards Contractors, Homers-Owners, Business Owners, Building Inspectors, Electrical Inspectors, Plans Examiners, Building Officials and Design Professionals.



County of Yolo
Development Services
Building Inspection Division

Phone: (530) 666-8775

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yolocounty.org

County of Yolo
Development Services
Building Inspection
Division

**2007 California
Electrical Code Article 500**

**Article 500
Hazardous Locations
Electrical & Enhanced
Vapor Recovery (EVR)
Training**

Date: December 16, 2008

Time: 8:30—4:00 pm.

Location: Planning and Public
Works Department
292 W. Beamer Street
Woodland, CA. 95695
(530) 666-8775

Hazardous Location Types

Class I Locations

According to the California Electrical Code, there are three types of hazardous locations. The first type of hazard is one which is created by the presence of flammable gases or vapors in the air, such as natural gas or gasoline vapor. When these materials are found in the atmosphere, a potential for explosion exists, which could be ignited if an electrical or other source of ignition is present. Some typical Class I Locations are:

- * Petroleum refineries, and gasoline storage and dispensing areas;
- * Dry cleaning plants
- * Spray finishing areas (paint booths)
- * Aircraft hangers
- * Utility gas plants

Class II Locations

The second type of hazard listed by the California Electrical Code are those areas made hazardous by the presence of combustible dust. These are referred to in the Code as "Class II Locations." Finely pulverized material, suspended in the atmosphere, can cause as powerful an explosion as one occurring at a petroleum refinery. Some typical Class II Locations are:

- * Grain elevators
- * Flour and feed mills
- * Magnesium or aluminum powder plants
- * Producers of plastics, medicines and fireworks
- * Producers of starch or candles



Class III Locations

Class III hazardous locations, according to the California Electrical Code, are areas where there are easily-ignitable fibers or flyings present, due to the types of materials being handled, stored, or processed. The fibers and flyings are not likely to be suspended in the air, but can collect on machinery or on lighting fixtures and where heat, a spark or hot metal can ignite them. Some typical Class III Locations are:

- * Textile mills, cotton gins
- * Cotton seed mills, flax processing plants
- * Plants that shape, pulverize or cut wood and create sawdust or flyings.

What is Enhanced Vapor Recovery (EVR)?

Vapor recovery systems collect gasoline vapors that would otherwise escape into the atmosphere during bulk fuel delivery (Phase I) or vehicle refueling (Phase II). These vapors are a major culprit in the formation of smog.

The EVR program provides more stringent requirements for vapor recovery systems in order to reduce gasoline vapor emissions. Some EVR requirements, such as the installation of EVR Phase I systems and upgrades to make Phase II systems compatible with new vehicles, have already been accomplished. The next deadline requires additional Phase II equipment, including vapor processors, April 1, 2009.

The final EVR deadline relate to in-station diagnostics, or ISD. ISD monitors the performance of the vapor recovery systems and triggers alarms when failures occur. If corrective action is not taken, ISD may lead to station shut-down.



Registration Form

Please print in ink or type, and return the form by **December 9, 2008**. You may also register by calling (530) 666-8775. There is limited seating for this training .

Last Name First Name

Title

Jurisdiction/Company

Business Address

City State Zip

Business Phone Fax

E-mail Address

Registration Fees: \$100.00 per person.

SEND TO:
Planning and Public Works Department
Building Inspection Division
Attention: Lonell Butler
292 W. Beamer Street
Woodland, CA. 95695