



# CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT

**GDS**

F.D. Permit Number \_\_\_\_\_

Date \_\_\_\_\_

Description of Work: \_\_\_\_\_ Type/Qty of Gas: \_\_\_\_\_

Project Name: \_\_\_\_\_ Address: \_\_\_\_\_

Suite: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Contractor: \_\_\_\_\_ Contractor's License/Type #: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Phone No. ( ): \_\_\_\_\_ Email: \_\_\_\_\_

**OFFICE USE ONLY: DO NOT COMPLETE BELOW THIS LINE**

The Fire District has reviewed the proposed **Gas Detection System** construction documents and specifications. Our review is to ensure compliance with the minimum code requirements related to fire and life safety as set forth in the 2022 California Fire Code. The following **selected** comments shall apply to this project:

- Audible and visible alarm signals associated with a gas detection alarm shall be distinct from the fire alarm and carbon monoxide alarm signals. (CFC 916.8)
- Gas detection system equipment shall be designed for use with those gases being detected and shall be installed in accordance with manufacturers' instructions. (CFC 916.3)
- Permanent power connection to the building electrical power supply is required. Cord connection is permitted provided it is to an unswitched receptacle using an approved restraining method that secures the plug to the receptacle. (CFC 916.4)
- Standby or emergency power shall be provided or the gas detection system and shall initiate a trouble signal at an approved location if the power supply is interrupted. (CFC 916.5)
- Sensors shall be installed locations where leaking gases are expected to accumulate. (CFC 916.6)
- Gas sampling shall be performed continuously. Sample analysis shall be processed immediately after sampling, except as follows:
  1. For HPM (Hazardous Production Material) gasses, sample analysis shall be performed at intervals not exceeding 30 minutes.
  2. For toxic gases that are not HPM, sample analysis shall be performed at intervals not exceeding 5 minutes, in accordance with section 6004.2.2.7 CFC
  3. Where a less frequent or delayed sampling interval is approved. (CFC 916.7)

(CONTINUED OVER)

Fee computed by: \_\_\_\_\_ Amount Due: \$ \_\_\_\_\_

Received by: \_\_\_\_\_ Amount Received: \$ \_\_\_\_\_

Cash  Credit  Check No. \_\_\_\_\_ Invoice No. \_\_\_\_\_

- A gas detection system shall initiate where any sensor detects a concentration of gas exceeding the following thresholds:
  - a. Flammable gas concentration exceeding 25% of lower flammability limit (LFL).
  - b. For nonflammable gases, a gas concentration exceeding one-half of the IDLH (Immediately Dangerous to Life and Health), unless a different threshold is specified by the section of the CFC requiring a gas detection system. (CFC 916.8)
- Signs shall be provided adjacent to gas detection systems alarm signaling devices that advise occupants of the nature of the signals and actions to take in response to the signal. (CFC 916.9)
- Inspection and testing of gas detection systems shall be conducted not less than annually. Sensor calibration shall be confirmed at the time of sensor installation and calibration shall be performed at the frequency specified by the sensor manufacturer. (CFC 916.11)
- Compressed gas containers, cylinders, and tanks shall be labeled to identify the contents. (CFC 5003.5)
- Piping, including flexible gas supply tubing, shall be labeled to identify the material inside and direction flow. (CFC 5003.2.2.1)
- Emergency shutoff valve for the compressed gas container shall be identified, clearly visible, and clearly accessible. (CFC 5003.2.2.1)
- Compressed gas containers, cylinders, and tanks shall be secured in an approved manner to prevent from falling. (CFC 5303.5.3)
- Additional comments: \_\_\_\_\_

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Approved plans shall be onsite at the time of the inspection. Failure to have approved plans onsite will result in the **cancellation of the inspection** and a **reinspection fee** being assessed.

Contact the Fire District at **925-941-3300 x3902** (minimum **two** working days' notice required) to schedule the **Gas Detection Test** available Monday through Thursday excluding holidays.

***On the morning of the inspection, a confirmation telephone call made to the Fire District at 925-941-3300 is necessary between 8:00 and 8:30 AM. Otherwise, the inspection will be cancelled.***

***Final acceptance is subject to field inspection.***

**Approval does not relieve the designer / contractor from complying with all applicable fire code requirements, nor does it abrogate the requirements of other authorities having jurisdiction.**

- Approved as submitted
  Approved with Comments
  Denied, Resubmittal Required

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_