



## **CITY OF MANTECA - FIRE DEPARTMENT**

### **FIRE PREVENTION BUREAU**

1154 S. UNION ROAD • MANTECA, CA 95337

(209) 456-8340 • FAX (209) 923-8936

## **FRUIT AND CROP RIPENING PERMIT REQUIREMENTS**

---

### **105.6.19 FRUIT AND CROP RIPENING:**

An operational permit is required to operate a fruit- or crop-ripening facility or conduct a fruit-ripening process using ethylene gas.

#### **Conditions:**

**2503.1 Location.** Ethylene gas is discharged only into approved rooms and constructed for this purpose.

**2503.2 Dispensing.** Valves controlling discharge of ethylene provide positive and fail-closed control of flow and are set to limit the concentration of gas in air below 1,000 parts per million (ppm).

**2504.1 Ignition prevention.** Sources of ignition are controlled or protected.

**2504.3 Static Electricity.** Containers, piping and equipment used to dispense ethylene are bonded and grounded to prevent the discharge of static sparks or arcs.

**2504.4 Lighting.** Lighting is by approved electric lamps or luminaries.

**2504.5 Heating.** Heating is by indirect means utilizing low-pressure steam, hot water, or warm air.

**Exception:** Electric or fuel-fired heater approved for use in hazardous (classified) location and that are installed and operated in accordance with the applicable provisions of the California Electrical Code and the California Mechanical Code. Empty boxes, cartons, pallets and other combustible waste are removed from ripening rooms or enclosures and disposed of at regular intervals. (CFC 2505.1)

#### **Ethylene Generators**

**2506.1 Ethylene generators.** Ethylene generators are listed and labeled by an approved testing laboratory.

**2506.2 Ethylene generator rooms.** Ethylene generators are installed as approved by the Fire District.

**2507.1 Where Required.** Approved warning signs indicating the danger involved and necessary precautions are posted on door and entrances.

Additional requirements may apply.