

Seattle Fire Department

Permit Conditions

4601

Fruit and Crop Ripening Processes

General:

1. Valves controlling discharge of ethylene gas shall provide positive and fail-closed control of flow and shall be set to limit the concentration of gas in air below 1,000 parts per million. (SFC 2503.2)
2. Heating of ripening rooms shall be by indirect means with low-pressure steam; hot water or warm air; or by electric or fuel fired heaters approved for use in hazardous locations. (SFC 2504.5)
3. Electrical equipment and wiring, including luminaires (lights) and air circulation fans, shall be approved for use in Class I, Division 2, Group C locations. Open-flame heaters, sparks, open lights and other ignition sources shall not be located in ripening rooms. (SFC 2504.1 and 2504.2)
4. NO SMOKING signs shall be posted at every entrance, and smoking shall be prohibited in ripening rooms. (SFC 2504.1)
5. Approved warning signs indicating the danger involved and necessary precautions shall be posted on all doors and entrances to the premises. (SFC 2507.1)
6. Empty boxes, cartons, pallets, and other combustible waste shall be removed from the ripening rooms and disposed of at regular intervals. (SFC 2505.1)

Special Conditions for Ethylene Generators:

7. Ethylene generators shall be listed and approved. (SFC 2506.1)
8. Ethylene generators shall not be used in enclosed areas of less than 1,000 cubic feet. (SFC 2506.2)
9. Rooms in which ethylene is discharged shall have air circulation to ensure even distribution of ethylene gas. (SFC 2506.2)
10. Ethylene generators shall be located and used in accordance with manufacturer's instructions. (SFC 2506.1)