

**To Be Rescinded**1301:7-7-10 Crop-ripening and coloring processes.

## (A) Section FM-1001.0 General

(1) FM-1001.1 Scope: The equipment and operations for crop-ripening and coloring processes shall comply with this rule.

(2) F-1001.2 Approval required: Approval shall be obtained from the code official for crop-ripening and coloring processes.

## (B) Section FM-1002.0 Fire safety requirements

(1) FM-1002.1 General: The layout, arrangement and construction of structures in which the process of ripening or coloring of crops is conducted shall comply with the building code listed in rule 1301:7-7-44 of the Administrative Code. Fire protection and fire protection systems shall be provided in accordance with the building code listed in rule 1301:7-7-44 of the Administrative Code. Structures and their service equipment shall be maintained in a safe and sound condition in accordance with this code.

(2) FM-1002.2 Ethylene: The location of structures in which a crop-ripening or coloring process utilizing gas containers of ethylene is conducted shall be in accordance with rule 1301:7-7-27 of the Administrative Code.

(a) F-1002.2.1 Distribution: The method for introducing ethylene shall provide positive control. Ethylene shall be measured so that the quantity introduced does not exceed one part ethylene to 1,000 parts of air.

(b) FM-1002.2.2 Containers: Containers storing ethylene gas shall be constructed in accordance with paragraph (C) (FM-2703.0) of rule 1301:7-7-27 of the Administrative Code. Ethylene gas containers, except those connected for use, shall be stored outside the structure or in an approved structure, in accordance with rule 1301:7-7-27 of the Administrative Code.

Exception: A maximum of two portable department of transportation (DOTn) containers not connected for use shall be stored inside of the structure in an inside room constructed in accordance with paragraph (H)(4)(FM-2208.4) of rule 1301:7-7-22 of the Administrative Code.

(c) F-1002.2.3 Piping: Ethylene piping shall be of steel pipe. Where utilized, flexible connectors shall bear the label of an approved agency. Tubing shall be of brass or copper with not less than a 0.049-inch (1.24 1.2 mm) wall thickness.

(3) FM-1002.3 Electrical equipment: Electrical wiring and equipment shall be installed in accordance with NFPA 70 listed in rule 1301:7-7-44 of the Administrative Code. Artificial lighting shall only be by electricity.

(4) F-1002.4 Heating: Heating of ripening and coloring rooms shall be by indirect means with low-

pressure steam, hot water or warm air; approved electric heaters; or approved gas or kerosene heaters, both of which shall have sealed combustion chambers.

(a) F-1002.4.1 Hot water: Steam and hot water pipes and radiators shall have a clearance of at least 1 inch (25 mm) to combustible material.

(b) FM-1002.4.2 Gas heaters: Gas heaters and vents serving the gas heater shall be installed in accordance with the mechanical code listed in rule 1301:7-7-44 of the Administrative Code. Gas heaters shall be equipped with an automatic pilot device to shut off the gas supply whenever the flame is extinguished.

(c) F-1002.4.3 Burners: Burners for gas or kerosene heaters shall be installed so the air for combustion is taken from outside the ripening or coloring room and the products of combustion are discharged outside the building in an approved manner.

(d) FM-1002.4.4 Kerosene heaters: Kerosene heaters shall be installed in accordance with the mechanical code listed in rule 1301:7-7-44 of the Administrative Code.

(e) F-1002.4.5 Electric heaters: Electric heaters shall not have an exposed surface temperature higher than 800 degrees F. (427 degrees C.) and shall have thermostatic elements that do not produce sparks. Electric heaters shall be of a type approved for hazardous locations.

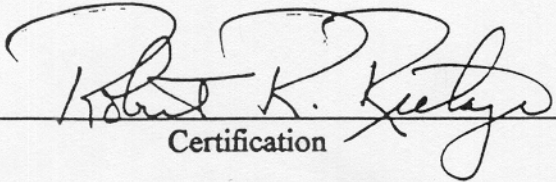
(f) F-1002.4.6 Protective guards: A protective guard shall be provided around any heater to prevent the possibility of the heater being knocked over by other equipment, such as vehicles or lift trucks.

(5) FM-1002.5 Sources of ignition: Open flame heaters and open lights shall not be permitted in ripening and coloring rooms using ethylene from gas tanks or cylinders. Smoking shall be prohibited in accordance with paragraph (L)(F-312.0) of rule 1301:7-7-03 of the Administrative Code.

(6) F-1002.6 Housekeeping: Rooms for ripening or coloring shall be frequently cleared of all combustible material.

1301:7-7-10

Effective: January 3, 2000

  
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Certification

November 17, 1999

Date

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Rule amplifies:	R.C. Section 3737.22
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Certification

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Date

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