



## Fire Prevention Division

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### SUPPLEMENTAL RULES & REGULATIONS

<b>Number:</b>	10-903.3.1.1		
<b>Subject:</b>	Retrofit of Fire Sprinklers in Chute-fed Compactors		
<b>Code:</b>	2003 International Fire Code	<b>Code Section:</b>	903.3.1.1
<b>Code:</b>	2002 NFPA 13	<b>Code Section:</b>	13.15.2.3
<b>Code:</b>	1999 NFPA 13	<b>Code Section:</b>	5-21.5
<b>Effective Date:</b>	July 29, 2010	<b>Issued by:</b>	Fire Marshal Roger Parker 
<b>Revision Date:</b>	NA	<b>Issued by:</b>	NA
<b>Supersedes:</b>	NA	<b>Date:</b>	NA

#### AUTHORITY:

§104.1 of the 2003 International Fire Code authorizes the fire marshal to render interpretations of the fire code, and to adopt policies, procedures, rules and regulations in order to clarify the application of its provisions.

#### PURPOSE:

To clarify the requirements for retrofitting fire sprinklers in chute-fed compactors.

#### SCOPE:

This regulation covers all facilities, buildings, or uses within the City of Avondale after the effective date.

#### GENERAL:

The 2003 International Fire Code §903.3.1.1 states:

***NFPA13 sprinkler systems.*** Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Section 903.3.1.1.1.

The 2002 NFPA 13 §13.15.2.3 states:

***Commercial-Industrial Compactors.*** All chute-fed compactors shall have an automatic special fine water spray sprinkler with a minimum 1/2-in. (13-mm) orifice installed in the hopper of the compactor. This sprinkler shall be an ordinary temperature-rated sprinkler. The sprinklers shall be supplied by a minimum 1-in. (25.4-mm) ferrous piping or 3/4-in. (19-mm) copper tubing line from the domestic cold water supply. The sprinkler shall provide a suitable spray into the hopper. A cycling (on-off), self-actuating, snap-action, heat-actuated sprinkler shall be permitted to be used, or the sprinkler shall be permitted to be

*controlled by a temperature sensor operating a solenoid valve. Sprinkler water piping shall be protected from freezing in outdoor installations. [82:5.2.5.2.1]*

The 1999 version of NFPA 13 §5-21.5 states:

***Commercial-Industrial Compactors.*** *All chute-fed compactors shall have an automatic special fine water spray sprinkler with a minimum 1/2-in. (13-mm) orifice installed in the hopper of the compactor. This sprinkler shall be an ordinary by a minimum 1-in. (25.4-mm) ferrous piping or 3/4-in. (19-mm) copper tubing line from the domestic cold water supply. The sprinkler shall provide a suitable spray into the hopper. A cycling (on off), self-actuating, snap-action, heat-actuated sprinkler shall be permitted to be used, or the sprinkler shall be permitted to be controlled by a temperature sensor operating a solenoid valve. Sprinkler water piping shall be protected from freezing in outdoor installations. (82: 5-3, 5-3.1).*

#### **SUPPLEMENTAL RULE OR REGULATION:**

All chute-fed compactors shall have automatic fire sprinklers installed to prevent the spread of fire from the compactor into the building. Existing chute-fed compactors that are found without a fire sprinkler are required to be retrofitted to correct the deficiency.

Retrofit installations of one chute-fed compactor fire sprinkler will not require a permit if done in accordance with in accordance with the 2002 NFPA 13 §13.15.2.3 or the 1999 NFPA 13 §5-21.5. This is considered a deficiency correction in accordance with the 2002 NFPA 25 §4.1.4.

Corrections and repairs shall be performed by a qualified contractor.

All fire sprinklers installed in compactor chutes shall be protected by a heavy duty guard.