



## Memorandum

To: Chris Hladick, Commissioner  
Department of Commerce, Community and Economic Development (DCCED)

From: David Tyler, Director/State Fire Marshal   
Division of Fire and Life Safety

Date: November 7, 2016

Subject: AS 18.70.081 – Approved Fire Protection Systems

The following list is provided to meet the requirement of Alaska Statute 18.70.081 for “Approved Fire Protection Systems”, and supersedes all previous memos regarding this matter.

1. The following is a list of Approved Fire Protection Systems.
  - a. Water-based fire sprinkler systems, which provide complete coverage throughout the Structure, designed, installed, and maintained in accordance with the International Building Code as amended, the International Fire Code as amended, and NFPA 13.
  - b. Water-based fire sprinkler systems (in residential occupancies up to and including four stories), which provide complete coverage throughout the structure, designed, installed, and maintained in accordance with the International Building Code as amended, the International Fire Code as amended, and NFPA 13R.
  - c. Water-based fire sprinklers systems (in one and two family dwellings and manufactured homes), which provide complete coverage throughout the structure, designed, installed, and maintained in accordance with the International Building Code as amended, the International Fire Code as amended, and NFPA 13D, NFPA 13R and P2905.
  - d. Water mist fire protection systems, which provide complete coverage throughout the structure, designed, installed and maintained in accordance with NFPA 750.
  - e. Halogenated fire extinguishing agent systems, which provides complete coverage throughout the structure, Halon 1301 designed, installed and maintained in accordance with NFPA 12 A.
  - f. All water-based fire protection systems listed above shall be maintained in accordance with NFPA 25 and in accordance with 13 AAC 50.025.

2. Fire Protection Systems qualifying for the loan provisions of AS 45.81.210 in accordance with 13 AAC 50.025:

- a. Low-, Medium-, and High-Expansion Foam Systems – NFPA 11, 2005 edition
- b. Carbon Dioxide Extinguishing Systems - NFPA 12, 2005 edition
- c. Halogenated Fire Extinguishing Systems - Halon 1301, NFPA 12A, 2004 edition
- d. Fire Sprinkler Systems - NFPA 13, 13R, 13D, 2010 editions
- e. Standpipe and Hose Systems - NFPA 14, 2007 edition
- f. Water Spray Fixed Systems - NFPA 15, 2007 edition
- g. Foam - Water Sprinkler and Spray Systems - NFPA 16, 2007 edition
- h. Dry Chemical Extinguishing Systems - NFPA 17, 2002 edition
- i. Wet Chemical Extinguishing Systems - NFPA 17A, 2002 edition
- j. Fire Alarms – NFPA 72, 2010 edition
- k. Water Mist Fire Protection Systems – NFPA 750, 2010 edition
- l. Water Supplies for Suburban and Rural Firefighting – NFPA 1142, 2007 edition
- m. Clean Agent Fire Extinguishing Systems – NFPA 2001, 2008 edition
- n. Commercial Kitchen Hoods and Automatic Fire-Extinguishing Systems – International Fire and Mechanical Codes, 2009 editions