

BFAAM Apprenticeship Program

Period 3

Module 3 – Michigan Building Code

Reading material associated with this
module: Chapter 9, sections 901 - 906 of the
Michigan Building Code, 2015 edition

2015 MBC

Fire Protection Systems

- Fire protection systems shall be installed and maintained in accordance with this code and the *International Fire Code* (IFC)
- Any fire protection system for which an exception or reduction to the provisions of this code has been granted shall be considered to be a required system

901.2

2015 MBC

Fire Protection Systems

- Any fire protection system or portion thereof not required by this code shall be permitted to be installed for partial or complete protection, provided the system meets the requirements of the code

901.2 exception

2015 MBC

Fire Protection Systems

- No person shall remove or modify any fire protection system installed or maintained under the provisions of this code or the IFC without approval by the building official

901.3

2015 MBC

Fire Protection Systems

- Acceptance tests. Fire protection systems shall be tested in accordance with this code and the IFC. When required, tests shall be conducted in the presence of the building official. It shall be unlawful to occupy portions of a structure until the required fire protection systems have been tested and approved

901.5

2015 MBC

Fire Protection Systems

- Supervisory Service – Fire protection systems shall be monitored by an approved supervising station in accordance with NFPA 72, except for:
 - Sprinkler systems with less than 20 heads
 - Residential sprinkler systems for one or two family dwellings

901.6

2015 MBC

Fire Protection Systems

- Group H (Hazardous) Occupancies shall have the manual fire alarm, automatic fire extinguishing and emergency alarm systems monitored by an approved supervising station
 - Exception: When approved by the building official, on site monitoring at a constantly attended location provided that fire department notification is equal to a supervising station

901.6.3

2015 MBC

Fire Protection Systems

- Section 903 - Automatic Sprinkler Systems
- All valves controlling the supply of water to the sprinkler system, pumps, tanks, water levels, temperature, critical air pressures and waterflow switches shall be supervised by a listed fire alarm control unit.
- Exceptions:
 - One or two family dwellings
 - Limited area (less than 20 heads) systems
 - NFPA 13R systems with no separate shutoff valve for the sprinkler piping

2015 MBC

Fire Protection Systems

- Exceptions to valve supervision, continued:
 - Jockey pump control valves locked open
 - Control valves to cooking hoods, paint booths, dip tanks, where valve is locked open
 - Valves controlling the fuel supply to fire pump engines that are sealed or locked open
 - Trim valves to pressure switches in dry, preaction and deluge systems that are sealed or locked open

903.4

2015 MBC

Fire Protection Systems

- Section 903 - Automatic Sprinkler Systems
- Alarm, supervisory and trouble signals shall be distinctively different, and automatically transmitted to a Central Station, Remote Supervising Station or Proprietary Supervising Station, or with Fire Official approval, sound at a constantly attended location

903.4.1

2015 MBC

Fire Protection Systems

- Systems provided for sprinkler supervision (Supervisory Service) are not required to be provided with notification appliances for occupant notification per Construction Code Commission Formal Interpretation 09-53, approved by the Commission on November 4, 2009, and binding on all governmental units in Michigan

www.michigan.gov/documents/dleg/dleg_bcc_interpretation_09_53_305616_7.pdf

2015 MBC

Fire Protection Systems

- Section 903 - Automatic Sprinkler Systems
 - Where a fire alarm is installed, actuation of the sprinkler system shall actuate the fire alarm system 903.4.2
- Section 904 - Alternative Automatic Fire Extinguishing Systems
 - Where a fire alarm is installed, systems shall be monitored by the building fire alarm system in accordance with NFPA 72 904.3.5

2015 MBC

Fire Protection Systems

- Section 905 – Standpipe Systems
 - Valves controlling water supplies shall be supervised in the open position so that a change in the normal position of the valve will generate a supervisory signal at the supervising station.

905.9

2015 MBC

Fire Protection Systems

■ Section 905 – Standpipe Systems

Valve supervision exceptions:

- Valves to underground key or hub valves in roadway boxes provided by the municipality or public utility do not require supervision
- Valves locked in the normal position and inspected as provided in this code in buildings not equipped with a fire alarm system

905.9 exceptions 1 & 2

2015 MBC

Fire Protection Systems

- Section 906 – Portable Fire Extinguishers
 - Inspection requirements are relaxed when electronic monitoring is provided
 - Electronic monitoring typically interfaces to the fire alarm system and creates a trouble or supervisory signal if the extinguisher is removed from its location, loses its charge or is otherwise obstructed

906.2 exception 2

BFAAM Apprenticeship Program

Period 3

Reading Assignment for

Module 4 – Michigan Building Code

Reading material associated with this
module: Chapter 9, sections 907.1 – 907.2 of
the Michigan Building Code, 2015 edition