



Fire Prevention Information Bulletin

INSPECTIONS OF ASPIRATING SMOKE DETECTOR SYSTEMS

Fire Prevention is reminding Fire Alarm System Technicians that Aspirating Smoke Detector Systems installed in elevator shafts or installed in any location must be visually inspected as per CAN/ULC-S536-04 as referenced by the 2010 National Fire Code adopted by Manitoba in 2011.

It is not sufficient to test the device using only the test port. Functional tests should be conducted by introducing smoke into each sampling point or leg of the port, where multiple ports exist, and verify a response at the detector. Where access is restricted or other conditions prevent access, other verification and inspection techniques should be employed to ensure proper operation of the devices. Always refer to the manufacturer's specifications and instructions for testing and inspecting these devices. All tests performed should be recorded on the inspection report.

5.7.1.1. Each Field Device shall be inspected to confirm the following, as applicable:

- A Free of damage;*
- B Free of foreign substance (e.g. paint);*
- C Mechanically supported independent of wiring; and*
- D Protective dust shields or covers removed*

5.7.4.1.1. Each smoke detector shall be visually inspected for cleanliness.

As the AHJ we are also referring to the Code of Practice for Design, Installation, Commissioning & Maintenance of Aspirating Smoke Detector (ASD) Systems for guidance on the recommended code of practice for testing and inspecting these systems. The Code of Practice states:

15.2.1 Routine Inspection

A visual inspection should be made to check whether structural, building or occupancy changes have affected the design requirements for the pipe-work and sampling points.

A visual inspection should be made of all sampling points, pipe-work, fittings, cables and equipment for secure fixing, appropriate labelling and for absence of damage and freedom from obstructions.

http://www.iceweb.com.au/Fire_Detection/CodePracticeAspSystems.pdf

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