FIRE ALARM FOR ELEVATORS
UNDER NFPA 72 2002-2019

This flowchart covers fire alarm requirements under the International Building Code (IBC) and NFPA 72. Review for code/standard for detail and commentary.

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*Clarification not explicit in NFPA 72 Editions prior to 2013
Smoke Detector in Elevator Machine Room

Provide smoke detector:
- for elevator recall (NFPA 72 2016 21.3.3)

Smoke Detector at Top of Shaft

Sprinkler located above lowest level of recall?
- No
  - Smoke relief damper/equipment provided?
    - No
    - Smoke detector not required at top of shaft (NFPA 72 2002 6.15.3.6, 2007 6.16.3.6, 2010-19 21.3.6)
    - Yes
    - Do ambient shaft conditions prohibit use of smoke detector?
      - No
      - Provide smoke detector at top of shaft:
        - for elevator recall (NFPA 72 2002 6.15.3.7, 2007 6.16.3.7, 2010-19 21.3.7)
        - must be listed for environment (NFPA 72 2013-19 21.3.8)
      - Yes
      - Provide heat detector or other detection device at top of shaft:
        - for elevator recall (NFPA 72 2016 21.3.7, 21.3.9)
  - Yes
    - No
    - Yes