MULTI-STORY FIRE ALARM POWER RISER

- Fuse size in fire alarm service switch and remote fire alarm cut-outs must coordinate.
- Riser conductors must be continuous or spliced at a listed terminal device.
- A listed device must be used for tapping feeder conductors.
- All conduit to be RMC, IMC, or MI cable (760.46).
- All NFPA distribution devices and pull box covers must be labeled and painted red.

A disconnect switch may be used.

Industries reference sketch: 2 / 10
7/06/11
#8 MIN. (TABLE 250.66)
( #10 ACCEPTABLE FOR A 30A SERVICE SWITCH)

MUST HAVE PROVISION FOR
LOCKING IN THE ON POSITION

FIRE ALARM
SERVICE SWITCH

BONDING SCREW OR
CONDUCTOR TO ENCLOSURE

(TABLE 250.122)

SEPARATELY DERIVED
SYSTEM

DELTA PRIMARY

EQUIPMENT GROUNDING CONDUCTOR (TABLE 250.77)

EQUIPMENT GROUNDING CONDUCTOR

(TABLE 250.66)

GROUNDING ELECTRODE CONTACT PREFERENCES: THE STRUCTURAL METAL

EQUIPMENT GROUNDING CONDUCTOR (TABLE 250.77)

TYPICAL FIRE ALARM
SERVICE SWITCH 265/460V

OPTION #2

GROUNDING ELECTRODE CONNECTION
AT THE FIRST DISCONNECTING MEANS

INDUSTRY REFERENCE SKETCH: 4 / 10
7/06/11
EMERGENCY GENERATOR
120/208V 3-PHASE 4 WIRE SYSTEM
WITH 3 POLE ATS
FIRE ALARM CONNECTIONS

INDUSTRY REFERENCE SKETCH: 5 / 10
7/06/11
EMERGENCY GENERATOR
120/208V 3PHASE 4 WIRE SYSTEM
WITH A 4 POLE ATS

FIRE ALARM CONNECTIONS
INDUSTRY REFERENCE SKETCH: 6 / 10
7/02/11
**MULTIPLE EMERGENCY GENERATORS**

**NON - PARALLELED**

- ALL CONDUIT TO BE RMC, IMC OR MI CABLE (760.46)
- ALL NPLFA DISTRIBUTION DEVICES AND PULL BOX COVERS MUST BE LABELED AND PAINTED RED.

**FIRE ALARM EMERGENCY CONNECTIONS**

**TWO OR MORE NON-PARALLELED GENERATING SOURCES WITH A FIRE ALARM CONNECTION TO A SINGLE GENERATOR SOURCE.**

**INDUSTRY REFERENCE SKETCH: 7 / 10**

7/06/11
• ALL CONDUIT TO BE RMC, IMC OR MI CABLE (760.46)
• ATS#1 SHALL HAVE PROVISION FOR STARTING BOTH EMERGENCY GENERATORS ON LOSS OF POWER.
• ALL NPLFA DISTRIBUTION DEVICES AND PULL BOX COVERS MUST BE LABELED AND PAINTED RED.

FIRE ALARM EMERGENCY OPTIONAL CONNECTIONS
TWO OR MORE NON - PARALLELED GENERATING SOURCES WITH A FIRE ALARM CONNECTION TO TWO GENERATOR SOURCES.

INDUSTRY REFERENCE SKETCH: 8 / 10
7/06/11
MULTIPLE EMERGENCY GENERATORS WITH PARALLELING SWITCHGEAR

- DOES NOT REQUIRE A SERVICE SWITCH CONFIGURATION.

- ALL CONDUIT TO BE RMC, IMC OR MI CABLE (760.46)

- ALL NLPEA DISTRIBUTION DEVICES AND PULL BOX COVERS MUST BE LABELED AND PAINTED RED.

FIRE ALARM EMERGENCY CONNECTIONS TO A PARALLELED GENERATOR SOURCE.

INDUSTRY REFERENCE SKETCH: 9 / 10
If no equipment ground conductor is contained in the panel feeder, an equipment grounding conductor may be connected to the panel enclosure.

The tap for sub-system fuse cut-out must be made on the line side of the feeder or termination of the local panel.

- A listed device must be used for tapping feeder conductors.
- All conduit to be RMC, IMC or MI cable (750.46)
- All NPLA distribution devices and pull box covers must be labeled and painted red.

Local 120/208V, Panel serving protected space