



**North Collier Fire Control and Rescue District
Authority Having Jurisdiction (AHJ) Guidelines for Successful Review or Inspection**

Article Number	FAL 20-09
Effective Date	January 26, 2021
Subject	Timing of Flow Switches
Objective	Clarify Acceptable Flow Switch Time Settings

ELECTRICAL ROOM

Clear Working Space

- NO IMPEDMENTS, including fire sprinkler pipe
- Minimum Depth: 36" clear in front of the panel [NFPA 70 110.26(A)(1)]
- Minimum Width: The size of the panel box or 30", whichever is greater. Panel door must be able to open 90 degrees [NFPA 70 110.26(A)(2)]
- Minimum Height: 6 ½ feet above finished floor or the height of the panel, whichever is greater [NFPA 70 110.26(A)(3)]

Room Requirements

- Minimum 7'6" high above finished floor [NFPA 70 110.26(C)(1); FFPC 101:7.1.5.1]
- Minimum 32" wide door (unless compliance with exceptions) [FFPC 101:7.2.1.2.3]
- Must have electric for lights (NFPA 70, 110.26(D) and air conditioning [NFPA 72 10.3.5]
- Must have sprinkler protection unless ALL the following are provided [NFPA 13 8.15.11.2]:
 - Room is dedicated to electrical equipment only
 - Only dry-type electrical equipment is used
 - Equipment is installed in a 2-hour rated enclosure with penetration protection
 - No combustible storage is permitted to be stored in the room
- Sprinklers subject to mechanical injury shall be protected with listed guards [NFPA 13 6.2.8]
- A document cabinet labeled "SYSTEM RECORD DOCUMENTS" shall be provided [NFPA 7.7.2.2]

- Location of the panel, fire department access box (Knox box), and document box must be shown on the plan [FFPC 1:1.1.1(6); FFPC 1:1.1.1(8)]
- No storage permitted inside the room [NFPA 70 110:26(B)]
- Grounding and bonding per applicable section(s) of NFPA 70 Article 250
- Dedicated space only. Other requirements may apply if additional equipment is installed in the same space.

Systems not greater than 30 volts rms, 42 volts peak, or 60 volts dc.

Work space (clear of all obstructions and intrusions): Room height 7 feet 6 inches with clear working space of 6½ ft A.F.F. or the height of the equipment, whichever is greater. Width: greater of 30 in or width of panel. Depth: 36 in.

90 degree opening of equipment doors.

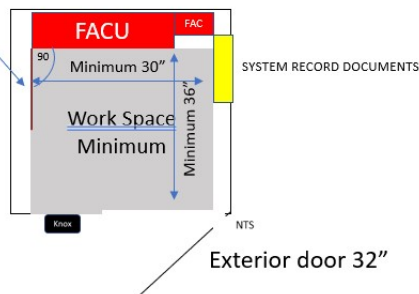
Visible indicators, or controls are not less than 15 in. or greater than 6 feet.

Illumination shall be provided.

Climate controlled space.

Communicator: Avoid mounting locations within 3 feet of AC power lines, fluorescent light fixtures, or large metal objects. All wiring methods must be performed in accordance with NFPA 70, Articles 725, and 800, NFPA 72 and the manufactures specifications.

90 degree opening of equipment doors



Must have sprinkler protection unless ALL the following are provided:

- Room is dedicated to electrical equipment only
- Only dry-type electrical equipment is used
- Equipment is installed in a 2-hour rated enclosure with penetration protection
- No combustible storage is permitted to be stored in the room

IMPORTANT: THE STUB-OUT FEED AND SLEEVE THROUGH THE SLAB IS CORRECTLY PLACED SO THE MINIMUM CLEARANCES ARE MET.

SPRINKLER RISER OR EQUIPMENT

The minimums identified above without intruding on the space are required for the FACU or sprinkler riser equipment. Additional space for the sprinkler riser or equipment shall be adequate for installation, maintenance, and testing.

- Sprinkler system shall drain to the outside and away from the room. [NFPA 13 8.16.2.4.4]
- Provide sprinkler spare head box and sprinkler head information located so that it does not intrude in the sprinkler riser space or FACU space per NFPA 13 6.2.9.
- Sprinkler riser minimum space – 9 cu. ft. for every valve with a minimum of 3 feet in front of the riser. [NCFR Requirement]
- Minimum Room Size:
 - Capable of a 24" clear to the sides, 36" clear to the front of the riser and 12" to the rear of the riser. [NCFR Requirement]

- Capable of minimum of 36" to the front of the FACP. [NFPA 70 110.26(A)(1)]
- Minimum 32" wide door (unless compliance with exceptions) [FFPC 101:7.2.1.2.3]
- Minimum 7'6" high above finished floor. [NFPA 70 110.26(C)(1); FFPC 101:7.1.5.1]

Suggested typical sprinkler riser/FACU room.

Work space (clear of all obstructions and intrusions): Room height of height 7 feet 6 inches with clear working space 6½ ft A.F.F. or the height of the equipment, whichever is greater. Width: greater of 30 in or width of panel. Depth: 36 in.

90 degree opening of equipment doors.

Visible indicators, or controls are not less than 15 in. or greater than 6 feet.

Illumination shall be provided.

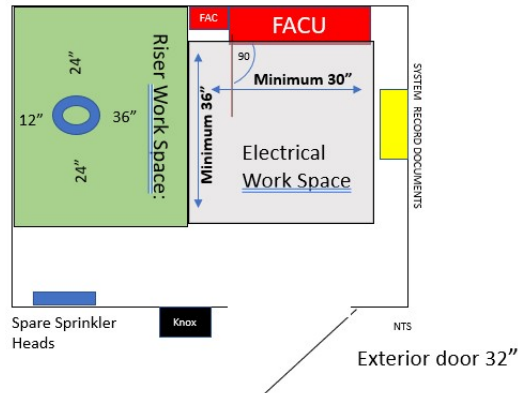
Climate controlled space.

Communicator: Avoid mounting locations within 3 feet of AC power lines, fluorescent light fixtures, or large metal objects. All wiring methods must be performed in accordance with NFPA 70, Articles 725, and 800, NFPA 72 and the manufactures specifications.

Riser: Sprinkler riser drain to outside of the building. Suggested work space: Capable of a 24" clear to the sides of the riser, 36" in front of the riser and 12" to the rear of the riser.

IMPORTANT: THE STUB-OUT FEED AND SLEEVE THROUGH THE SLAB IS CORRECTLY PLACED SO THE MINIMUM CLEARANCES ARE MET.

Systems not greater than 30 volts rms, 42 volts peak, or 60 volts dc.



Room must have fire sprinkler protection.