



PROJECT: [REDACTED]

ARCHITECT PROJECT #: [REDACTED]

ADDRESS: [REDACTED]

RFI #23

ATTN:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

ISSUE DATE: 01-20-2025

DUE DATE: 01-27-2025

SPECIFICATION SECTIONS: 28 - Electronic Safety and Security, 21 - Fire Suppression, 23 - Heating, Ventilation, and Air Conditioning (HVAC)
DOCUMENTS REFERENCED: Bulletin 20 Contract Fire Alarm Plans (Dated 07/26/24), Revised Per EOR & Coordination Sprinkler Shop Drawings (Dated 11/2/23), Addendum 1 Mechanical Ductwork Plans (Dated 8/13/21), 2016 NFPA 72, 2020 FCNYS, 2020 MCNYS

PERTAINING TO: 1-13-25 Fire Marshal Walkthrough**REASON FOR REQUEST:** ☐ INSUFFICIENT INFORMATION ☒ ENGINEERING CONFLICT ☒ ALTERNATE PROPOSAL**ACTION REQUESTED:** ☒ CLARIFICATION ☒ CONFIRMATION ☒ APPROVAL**PROBABLE IMPACT:** ☐ FUNCTIONALITY ☒ COST ☒ SCHEDULE**CONTENTS:****1-13-25 Fire Marshal walkthrough provided directive on below items:**

1. Additional First Floor Exit Doorway Pull Stations as per 2016 NFPA 72 17.14.8.4 (See Attached *Additional Exit Doorway Pull Stations Markup*)
2. First Floor Public Waiting P-1199A Security Vestibule - Annunciator facing towards and visible from building exterior as per 2016 NFPA 72 10.17.3.2 (See Attached *P-1199A Security Vestibule Additional Annunciator Markup*)
3. First Floor Closet Adjacent to Stair 1 P-1ST1- Additional Smoke Detection (See Attached *Closet Adjacent to Stair 1 P-1ST1 Smoke Detection Markup*)
4. Third Floor Mech P-3L01 Central Corridor - Additional Speaker Visual Coverage located on either side of structural beams (See Attached *Mech P-3L01 Additional Speaker Visual Coverage Markup*)
5. Provided for absence of Zero delay flow switch isolating Sprinkler head in elevator pit as per 2016 NFPA 72 21.4.3, Additional Elevator Pit Detection as per 2016 NFPA 72 21.4.1 & 21.4.2 (See Attached *Additional Elevator Pit Detection Markup*)
6. Exhaust fan shutdown as per 2020 FCNYS Chapter 80 Referenced Standards: MCNYS 20 - 606.2.1 & 606.4 (See Attached *Exhaust Fan Shutdown Markup*, and provide locations for EF-1, EF-2, EF-3, EF-4A, EF-4B, EF-5, EF-7, EF-8, EF-10, EF-11, SF-1, SF-2 FA Interface)

Please review and provide clarification/confirmation/approval to proceed



PROJECT: [REDACTED]
ARCHITECT PROJECT #: [REDACTED]
ADDRESS: [REDACTED]

RFI #1

ATTN:

[REDACTED]
[REDACTED]
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[REDACTED]

ISSUE DATE: 02-20-2025

DUE DATE: 02-27-2025

SPECIFICATION SECTIONS: SECTION 28 46 00 - FIRE DETECTION AND ALARM, SECTION 21 13 00 - FIRE-SUPPRESSION SPRINKLER SYSTEMS

DOCUMENTS REFERENCED: Fire Alarm MER Level Drawings (FA2.7.1)(Dated 04/16/20), Fire Protection MER Level Drawings (F2.7.1)(Dated 04/16/20), Fire Protection Details Drawings (F4.0.0)(Dated 04/16/20)

PERTAINING TO: Elevator Power Shutdown

REASON FOR REQUEST: ☐ INSUFFICIENT INFORMATION ☒ ENGINEERING CONFLICT ☒ ALTERNATE PROPOSAL

ACTION REQUESTED: ☒ CLARIFICATION ☐ CONFIRMATION ☐ APPROVAL

PROBABLE IMPACT: ☒ FUNCTIONALITY ☐ COST ☐ SCHEDULE

CONTENTS:

Fire Alarm MER level contract drawing (FA2.7.1) designates Elevator Hoistway PSE7.4 and Service Elevator PSE7.3 Heat Detectors as "Pre-action system heat detector to be installed within 24" of sprinkler head (typical for 2)"

Fire Protection MER level contract drawings (F2.7.1) show "Sprinkler head at clg of elevator shaft" within both Elevator Hoistway PSE7.4 and Service Elevator PSE7.3

Fire Protection Details contract drawing (F4.0.0) displays "Schematic diagram of pre-action control panel" containing a "Two zone pre-action control panel"

- 1 - If elevator PSE7.4 and PSE7.3 shutdown functions are to be facilitated with pre-action system heat detectors, as per 2016 NFPA 72 21.4.1 - 21.4.2:
Please clarify method as to how pre-action system heat detectors are to be monitored for integrity by the fire alarm control unit (as per 2016 NFPA 72 21.4.5), and confirm Pre-action system panel will interface directly with elevator disconnect for shunt trip function.
- 2 - If elevator PSE7.4 and PSE7.3 shutdown functions are to be facilitated with zero-delay switches as per 2016 NFPA 72 21.4.3:
Please confirm existence and location of zero-delay switch, for the purposes of FA system monitoring, and location of elevator disconnect, for purposes of FA elevator shunt trip interface.
- 3 - If design intent is for building fire alarm system to facilitate elevator PSE7.4 and PSE7.3 shutdown functions directly, please review below alternate proposal for approval:

1. Eliminate Pre-action system heat detectors within 24" of sprinkler head
2. Install Fire Alarm system Heat detectors within 24" of sprinkler head
3. Program Heat detectors within 24" of sprinkler head to initiate elevator shunt trip upon alarm activation.

Further Comments: The circumstances as described in 1 - necessitate extensive coordination as it relates to Fire Alarm programming of smoke detector recall function and timing of Pre-action system facilitation of elevator shunt trip. Failure to sufficiently coordinate on timing of shunt trip/recall functions, considering absence of direct Fire Alarm system interface with elevator disconnect for shunt trip or designation/differentiation of signals associated with Pre-action heat detectors (Given zoned Pre-action system) could result in elevator power shutdown prior to recall.





PROJECT: [REDACTED]

ARCHITECT PROJECT #: [REDACTED]

ADDRESS: [REDACTED]

RFI #4**ATTN:**[REDACTED]
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[REDACTED]**ISSUE DATE:** 03-31-2025**DUE DATE:** 04-07-2025**SPECIFICATION SECTIONS:** SECTION 28 46 00 - FIRE DETECTION AND ALARM, SECTION 23 09 93 - SEQUENCE OF OPERATIONS**DOCUMENTS REFERENCED:** Fire Alarm Riser Diagram (FA0.1.0) (Dated 09/30/22), Fire Alarm Floor Plans (FA2.1.1 - FA2.7.1)**PERTAINING TO:** Fire Alarm - Smoke Purge Interface Alternate Proposal**REASON FOR REQUEST:** ☐ INSUFFICIENT INFORMATION ☐ ENGINEERING CONFLICT ☒ ALTERNATE PROPOSAL**ACTION REQUESTED:** ☐ CLARIFICATION ☐ CONFIRMATION ☒ APPROVAL**PROBABLE IMPACT:** ☒ FUNCTIONALITY ☐ COST ☐ SCHEDULE**CONTENTS:**

Fire Alarm Contract Drawing Riser Diagram (FA0.1.0) Displays and Notes TWO RELAYS (ONE FOR CLOSING, ONE FOR SMOKE PURGE OPENING) TYPICAL FOR EACH FSD ASSOCIATED WITH SMOKE PURGE

Fire Alarm Contract Drawing Floor Plans (FA2.1.1 - FA2.7.1) and Riser Diagram (FA0.1.0) are absent of Fire Alarm ADDRESSABLE INPUT MODULES. Specifically allocated to monitoring of Fire Smoke Damper Open and Closed End Switches.

Pursuant to 03-25-25 Fire Alarm Discussion Meeting, please review and approve following alternate proposal:

Considering the noted accessory Relays associated with Fire Alarm System opening of smoke purge FSD's, absence of contractually specified direct monitoring interface between the Fire Alarm System and FSD End Switches, and conventional quantity of available FSD end switch position contacts (on which BMS is presumably already landed), for the purposes of smoke purge function system interface device requirement non-redundancy and functionality, see proposed Division 28 and Division 23 Smoke Purge scope delegation proposal.

1. Division 28:

- i. Provision of Normally Closed FA Relay (Wired in Series with BMS FSD Relay) Located at each FSD - On FA General Alarm condition, relay contacts open, interrupting power to and providing for closure of Fire Smoke Dampers
- ii. Provision of FA Relay at BMS Panel - Reporting global FA General Alarm condition to BMS.

2. Division 23:

- i. Provision of Normally Closed BMS Relay (Wired in Series with FA FSD Relay) Located at each FSD - Providing for BMS FSD closure functionality
- ii. Provision of dry contact to FA, communicating purge condition - On purge signal condition from BMS, FA releases relays on FSDs and Fans, allocating control for purge functions to BMS
- iii. BMS System Functionality to start smoke purge return fan and open purge associated FSD's - allowing for exhaust of smoke associated with the area/floor to be purged
- iv. Provision of BMS Monitor Modules (On FSD Open & Closed End Switch Positions) - Providing for BMS monitoring of FSD Open/Closed Status (ie. if damper were supposed to be open, but was manually closed OR confirmation of FSD closure)
- v. Provision of Smoke Purge Control Panel - Interfacing with BMS system to annunciate Smoke Purge condition and associated locations

Example Sequence: Purge switch on Second Floor activated, FACP returns all relays to closed position. BMS leaves all FSD's closed and fans off except for Second Floor FSD and associated purge fan. When purge is turned off and FACP reset, BMS returns to normal control.

Please review and provide approval to proceed.

