

SECTION 16721 - FIRE ALARM SYSTEMS

A. SUMMARY

1. Zoned, addressable, noncoded remote station fire alarm systems, with multiplexed signal transmission.
2. Initiation by:
 - a. Manual station alarm.
 - b. Water-flow alarm.
 - c. Smoke detection.
 - d. Sprinkler valve tamper switch.
 - e. Fire pump power failure.
 - f. Low-air-pressure switch.

B. SUBMITTALS

1. Floor plans.

C. QUALITY ASSURANCE

1. Standard: NFPA 72.

D. PRODUCTS

1. Manual Pull Stations: Double-action type.
2. Smoke Detectors: UL 268, 24-V dc, self-restoring, plug-in arrangement, integral visual indicating light, and remote controllable.
 - a. Type: Photoelectric, ionization.
 - b. Remote Air-Sampling Detector System: Photoelectric type.
 - c. Duct Smoke Detector: Ionization type.
3. Thermal Detectors: Combination fixed-temperature and rate-of-rise units.
4. Continuous Linear Thermal Detector System:
 - a. Detector Cable: UL 521, 155 deg F (68 deg C).
 - b. Control Panel: Multizone.
5. Alarm-Indicating Devices:
 - a. Bells.
 - b. Chimes.
 - c. Horns.

- d. Visual alarm devices.
 - e. Remote alarm devices.
 - f. Voice/tone speakers.
- 6. Remote device location-indicating lights and identification plates.
 - 7. Magnetic door holders.
 - 8. Fire Alarm Control Panel:
 - a. Supervised alarm initiating and signaling.
 - b. Annunciation indicates initiating device actuation.
 - c. Event recording.
 - d. Firefighters' telephone control module.
 - 9. System printer.
 - 10. Emergency Power Supply: The state or local fire marshall may require longer standby and alarm times.
 - a. Battery: Recombinant lead-acid type.
 - b. Capacity: 24-hour standby followed by 15-minute alarm.

E. FIELD QUALITY CONTROL

- 1. Factory-authorized service representative to test system.
- 2. Test Procedures: NFPA 72.

END OF SECTION 16721