

Electronic Detection and Alarm Fire Alarm Systems (28 31 11)

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Part 1 – General

- This section contains guidelines for the campus fire alarm system.
- [SUCF directives apply](#)
- System shall be 24 VDC power limited with 120 VAC primary input power. All portions of the system shall operate on stand-by rechargeable battery power in addition to the primary power supply.
- System shall integrate seamlessly to central plant proprietary supervisory system.
- Acceptable Manufacturer:
 - Simplex
 - Reference OGS State Contract Group 38221

Part 2 – Product

- The system shall include all necessary hardware, software and peripheral devices to perform the following functions, as designer deems applicable to occupancy:
 - Fire/smoke detection and alarm
 - One way voice evacuation signaling
 - System supervision
 - Trouble indications
 - *Control functions*, such as but not limited to:
 - Elevator recall
 - Egress door release
 - Magnetic hold open release
 - Smoke Control
 - Status monitoring of non-system equipment, such as but not limited to:
 - Emergency Generator
 - Sprinkler/standpipe system
 - Pre-Action and Clean Agent Suppression system
 - Elevators
 - Fans
- System wiring shall be electrically supervised utilizing:
 - Initiating Device Circuits (IDCs), Notification Appliance Circuits (NACs) and Signaling Line Circuits (SLCs) will be designated either Class A or Class B
 - Class A SLCs which will be designated as either Style 6 or Style 7
 - If Class A SLC has Alarm Receipt Capability (ARC) with wire-to-wire short, it will be designated a Style 7
 - Network Signaling Line Circuits from building to proprietary supervising station shall be Class A Style 7. This provides the most protection for the network.