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:
  o Simplex
  o 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:
  o Fire/smoke detection and alarm
  o One way voice evacuation signaling
  o System supervision
  o Trouble indications
  o Control functions, such as but not limited to:
    ▪ Elevator recall
    ▪ Egress door release
    ▪ Magnetic hold open release
    ▪ Smoke Control
  o 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:
  o 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
  o Network Signaling Line Circuits from building to proprietary supervising station shall be Class A Style 7. This provides the most protection for the network.