



**Coon Rapids Fire Department
Inspection Bureau
Fire Inspections
11155 Robinson Drive,
Coon Rapids, MN 55433
Phone 763-767-6429
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Fire Alarms Systems

A Fire Permit is required for all fire alarm system work. It must comply with the following requirements:

Submittal Requirements

- Permit fee is \$100.00, plus two dollars per device, and \$.50 for the state surcharge.
- A minimum of three sets of scaled floor plans showing the location of all devices.
- Required information, business name, business address, and description of the work being done.
- Manufacturer specifications sheets on all devices being installed.
- Battery calculations.
- Plan review may take up to three weeks

General Requirements

- All systems components must be U.L. listed and installed for the appropriate application in accordance with their listing.
- Systems must be designed and installed per current applicable standard NFPA 72.
- A low temperature sensor is required in a sprinkler room when access is from the outside.
- A smoke detector shall be installed at the Fire Alarm Control Panel (FACP) and in the phone room.

Inspections Required

System must be 100% tested prior to inspection. A **U.L. Central Station Certificate for the Property is required; the Fax-Back Confirmation must be received by the Coon Rapid Fire Department prior to scheduling the final inspection.** If a system fails, a re-inspection must be scheduled; the re-inspection fee is First \$100.00, second \$200.00, and Third \$300.00.

- Test all devices.
- Contractor should have adequate staff and/or radios to verify signals at panel.
- Random test for trouble on devices. Distinct trouble signal required.
- Unit shutdown upon activation of duct smoke detectors.
- Battery disconnection should send trouble signal.
- Test elevator recall function, primary and secondary floors fire service operation.
- Smoke dampers close upon activation. Dampers do not have to be interconnected.
- Contact Alarm Company to verify correct signals and address.
- Completion of NFPA 72, installation/testing forms.

System Components and Hardware

- Power supply for the alarm system must be on a dedicated circuit. Breakers for all alarm system components, including exterior sprinkler alarms, must have approved locking devices to prevent the accidental disconnecting of power.
- Remote alarm indicating/testing devices are required when duct detectors are not visible/accessible from floor.
- On addressable systems, devices must be labeled to coincide with the device/address displayed on the fire alarm panel.
- Listed smoke detectors are required within five feet of all dampers locations.
- Detectors used with hold-open devices must be U.L. listed for the release function.
- All indicating sprinkler control valves, including WPIV's, must be secured and electronically supervised.
- Zoning of the fire protection systems shall be approved during plan review and shall be annunciated on the FACP/FAAP.

Monitoring/Annunciation

- The FACP or Fire Annunciator (FAAP) must be located at the main entrance or at an approved location.
- The FACP must be monitored by a U.L. Central Station and have a current U.L. Central Station certificate for the property.
- Alarm verification is required; verification cycle is required to be a minimum of 30 seconds.
- Water flow alarms shall be monitor as a distinct signal.
- Low air pressure on dry sprinkler systems shall be monitored as supervisory.
- Low temperature shall be monitored as supervisory.
- Duct smokes shall be monitored as **“Supervisory Alarm”**.
- Monitoring systems must comply with NFPA 72, including panel requirements for audible trouble signals and must have two means of signal transmission.