



Chaska Fire Department Policy:

Fire Alarm Systems

- 1) Fire alarm systems shall meet the requirements of NFPA 72 2016 Edition.
- 2) Shop drawings shall be submitted to the Fire Marshal for approval. Shop drawings shall include the following:
 - A. Connection diagrams.
 - B. Specification data sheets.
 - C. Complete diagrams indicating devices, components, interconnecting wiring, labeling, and descriptions on equipment.
 - D. Floor plans indicating device and component locations, conduit, raceway, and cable routes.
 - E. Power connections, including source and branch circuit data.
 - F. Plan layout and details of fire alarm control panel, fire alarm subpanels/transponders, and annunciator.
 - G. Battery calculations.
- 3) All components of the system must be U.L. listed for their application, compatible, and installed per NFPA 72, national electric code, and manufacturer's requirements.
- 4) Alarm verification is required for all systems using smoke detectors. Verification may be provided in the fire alarm control panel or in the smoke detectors. Manual pull stations shall not use verification. The maximum time limit on verification for smoke detectors shall not exceed 30 seconds.



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5) Any duct smoke detectors located above ceiling tile, out of sight, or which may require special means to reach, shall require the installation of remote indicator lights and test switches. Duct smoke detector signals will be supervisory and shall not initiate a general alarm condition.

6) All fire alarms shall be monitored by a U.L. listed central station. Communication shall be by a U.L. listed communicator or an NFPA listed control panel.

7) The alarm horns shall be 15 decibels above the ambient noise level in all areas of the building. Alarm horns shall be installed in each unit and all public areas, i.e. party rooms, pools, and laundry rooms. The maximum sound level of horns shall be 110 decibels. A 520 Hz low frequency alarm will be required in all sleeping areas.

8) Visual devices shall be installed in all public areas and common-use areas, including toilet rooms and bathing facilities, hallways, pools, and lobbies.

9) All pull stations shall have vandal resistant covers installed.

10) A full function annunciator shall be installed if the control panel is remotely located. The annunciator shall be located near the front door. The system must be enabled by a key, pass code is not allowed.

11) All systems using standard horns or speakers shall be set for temporal time.

12) Written operating instructions shall be provided to the owner and placed in the fire alarm control panel. A detailed zone map shall be posted in a frame next to the fire alarm control panel, annunciator panel, and one zone map shall be submitted to the Fire Marshal.

13) Lockouts shall be required on all circuit breakers used for life safety equipment, i.e. fire alarm control panel, annunciator panel, exit lights, emergency lights, and smoke removal systems.



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14) The fire alarm control panel shall be equipped with a keyed lock. A key shall be supplied to the Fire Marshal for placement in the lock box. The system must be enabled by a key, pass codes are not allowed.

15) The Fire Marshal shall be present for an acceptance test. The acceptance test will be in accordance with NFPA 72 and shall include the following:

- A. Test proper operation of each device.
- B. Random testing for system trouble.
- C. Random testing for ground faults; and
- D. 24-hour battery standby operation.

16) Fire alarm and detection equipment/systems shall be maintained and tested in accordance with NFPA 72 at least annually by a licensed fire alarm contractor.

17) All fire alarm systems will be required to hold a U.L. certificate. Any existing system requiring the alarm panel to be replaced will be required to be U.L. certified.

18) Installer must obtain a permit from the City of Chaska before any work can begin. Three sets of plans as well as product cut sheets should be submitted with the permit application. Permit applications are available at the Chaska City Hall.

19) Combination fire and burglar alarm panels are not allowed.

Questions:

Contact the Chaska Fire Department Fire Prevention Bureau.

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