



CLARK COUNTY FIRE DEPARTMENT - FIRE PREVENTION BUREAU

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Permit Submittal Guideline

FIRE ALARM SYSTEM- ELEVATOR RECALL

This guide is to assist in the permitting process for a fire alarm system - elevator recall system (dedicated function fire alarm system). A permit is required for the installation of fire alarm systems per section 105.6.7 of the IFC.

APPLICABLE CODES:

The following codes and standard apply to this permit:

- *National Fire Alarm and Signaling Code, NFPA 72, 2022 edition*
- *International Fire Code, (IFC) 2024 edition*
- *Clark County Fire Code Amendments, (CCFC) 2024 edition*

Fire alarm systems shall be installed in accordance with Section 907 of the IFC, as amended by the CCFC. The design shall be in accordance with NFPA 72.

SUBMITTAL REQUIREMENTS:

These submittal requirements are not all inclusive, nor are they a limit to the extent of the information, etc., which may be necessary to properly evaluate the submitted plans and documents. Not all items may apply to your project.

1. **PLANS:** To be designed to an indicated architectural scale, sized 30 x 42 inches and saved to a PDF file. Plans shall include all information applicable to project per NFPA 72, Section 7.4, as amended by the CCFC.
 - Elevator emergency control function interfaces shall be in accordance with NFPA 72 chapter 21.
 - Elevator lobby detectors shall be in accordance with NFPA 72 section 21.3.5.
 - The Plan shall indicate:
 - Type of elevator (hydraulic, traction, etc.)
 - Location of elevator controller
 - Location of elevator machine room (if provided)
2. **MATERIAL DATA:** Provide manufacturer's specification sheets for all components. All components shall be listed for the environment that they are installed in.
3. **SUPPORTING DOCUMENTS:** Provide documents that support the design. These would include a copy of an approved Fire Protection Report (FPR)/Alternative Material and Method Report (AMMR), a copy of the originally approved plans, a description of the requirements from the original code of record, and existing component specification sheets that affect system performance.

4. **Plans to be REVIEWED AND SIGNED** by a NICET Level 2 Designer in Fire Alarm Systems or a Nevada registered professional engineer working in their area of expertise (per Section 901.2.2. of the CFCC). **Submittals shall include the designer's name, certification number and signature, the licensee's name, contractor's license number, Nevada State Fire Marshal number, and signature.**

APPENDIX A

Suggested device location matrix. Matrix is based on requirements from NFPA 72 and ASME A17.1 Safety Code for Elevators and Escalators. This matrix is intended to aid in fire alarm device placement and the response function of device activation.

Scenario(1)	AS Pit(2)	AS Top of Hoistway	AS EMR	AS Control Panel Space	Shunt Pit (3)	Shunt Top of Hoistway (3)	Shunt EMR (3)	Shunt Control Panel Space(3)	Recall Pit (4)	Recall Top of hoistway (5)	Recall EMR (5)	Recall Control Panel Space(5)
Passenger, Traction w/EMR	N	N	N	NA	N	N	N	NA	N	N	Y	NA
Passenger, traction with internal motor, separate control panel space	N	N	NA	N	N	N	NA	N	N	Y	NA	Y
Passenger, traction, internal motor and control panel	N	N	NA	NA	N	N	NA	NA	N	Y	NA	NA
Passenger, Hydraulic w/EMR	Y	N	Y	NA	N	N	Y	NA	Y	N	Y	NA
Passenger, Hydraulic, hydraulic tank inside hoistway, separate control panel space	Y	N	NA	N	N	N	NA	N	Y	N	NA	Y
Passenger, Hydraulic, tank and control panel inside hoistway	Y	N	NA	NA	Y	N	NA	NA	Y	Y	NA	NA
LULA, Traction	N	N	N	N	N	N	N	N	N	N	N	N
LULA, Hydraulic	Y	N	Y	N	N	N	Y	N	N	N	N	N
Freight, traction, w/EMR	N	Y	N	NA	N	Y	N	NA	N	Y	Y	NA
Freight, traction, machine inside with control space	N	Y	NA	N	N	Y	NA	N	N	Y	NA	Y
Freight, hydraulic, w/EMR	Y	Y	Y	NA	N	Y	Y	NA	Y	Y	Y	NA
Freight, hydraulic, hydraulic tank inside hoistway, separate control panel space	Y	Y	NA	Y	N	Y	NA	Y	Y	Y	NA	Y
Freight, Hydraulic, tank and control panel inside hoistway	Y	Y	NA	Y	Y	Y	NA	Y	Y	Y	NA	Y

(1)Assumes Non-combustible hoistway. If found to have combustible hoistway add sprinkler, shunt and recall to top of hoistway, in addition to other requirements for that specific scenario

(2)Assumes sprinkler in elevator pit to be within 24 inches of the floor of the hoistway

(3) Use fixed-temperature heat detector with temperature rating and RTI lower than the adjacent sprinkler head(s)

(4) Use either specifically listed smoke detector or rate-of-rise style heat detector

(5) Use smoke detector