



## CLARK COUNTY FIRE DEPARTMENT - FIRE PREVENTION BUREAU

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### Permit Submittal Guideline

## **NFPA 13 TENANT IMPROVEMENT FIRE SPRINKLER SYSTEMS**

This guide is to assist in the permitting process for Sprinkler Systems. A permit is required for the installation of sprinkler systems per 105.6.2 of the IFC.

### **APPLICABLE CODES:**

The following codes and standard apply to this permit.

- *Standard for the Installation of Sprinkler Systems*, NFPA 13, 2022 edition
- *International Fire Code*, 2024 edition (IFC)
- *Clark County Fire Code Amendments*, 2024 edition (CCFC)

NFPA 13 Fire sprinkler systems are required per section 903.2 of the IFC, as adopted by CCFC. Design shall be in accordance with the NFPA 13.

### **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 and sized 30 x 42 inch saved to a .PDF file. Plans shall include all information applicable to project per NFPA 13, 2022 edition section 28.1.3 as amended by the CCFC. They shall include the entire area of the scope of work, and sufficient information of the existing building and sprinkler system to review the proposed work.
2. **HYDRAULIC CALCULATIONS:** Complete calculation report per NFPA 13, 2022 section 28.4, as required for the scope of work.
  - a) Tenant Improvement/remodels that utilize sprinklers with the same K-factor and spacing criteria that matches the K-factor and spacing of the existing fire sprinkler in the same area, and that do not have a change of occupancy hazard classification, do not require supporting calculations.
  - b) Tenant improvements/remodels that require an increase of occupancy hazard classification, are of extra hazard occupancy hazard classification or utilize flexible sprinkler connections with an equivalent length of pipe listed in the data sheet, require supporting hydraulic calculations to prove the minimum required flow is provided to each sprinkler head.
  - c) If providing hydraulic calculations, a valid water source will need to be proven by a new flow report, fire pump acceptance test, or pressure reducing valve setting
3. **MATERIAL DATA:** Provide manufacturers' specification sheets for all components
4. **SUPPORTING DOCUMENTATION:** Provide documents that support the design. These may include:
  - Approved civil engineering plans

- Approved Fire Protection Report (FPR) and/or an Alternate Means and Method Report(AMMR)
  - Letter confirming structural integrity of hangers and bracing in light-framed structures (ex. wood truss, z-purlins, c-channel) See Appendix A of this Permit Guide.
  - Originally approved fire suppression plans if re-submitting or modifying an existing system
  - Fire pump acceptance test results dated within 12-months of the submittal date
  - Las Vegas Valley Water District (LVVWD) water supply information
  - If any chemical additives are used in the project under the permit application, provide a copy of the response from LVVWD concerning the system. The LVVWD is to be notified of the use of chemical additives in a sprinkler system.
5. **Plans to be REVIEWED AND SIGNED** by a NICET Level 2 Designer in Water-Based Fire Protection Systems or a Nevada registered Professional Engineer working in their area of expertise per section 901.2.2. of the 2024 CCFC. **Submittals shall indicate the designer's name, certification number and signature.**

**NFPA 13 PERMIT GUIDE**

**APPENDIX A**

**EXAMPLE OF CERTIFICATE OF COMPLIANCE OF LOAD BEARING**

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**(PROVIDE ON COMPANY LETTERHEAD)**

CERTIFICATE OF COMPLIANCE

FIRE SUPPRESSION SYSTEM STRUCTURAL LOADING

[ *INSERT ENGINEER'S NAME AS REGISTERED* ] performed and completed the review of the available structural engineering drawings and calculations and/or verified the existing conditions in the field and hereby certifies that the additional loads imposed to the structural members by the proposed fire sprinkler and/or standpipe system(s) design, including piping, attachments and connections being installed under [ *INSERT PROJECT NAME, PERMIT NUMBER, REVISION NUMBER AND DATES OF THE DRAWINGS AND CALCUALTIONS* ] are within the allowable limits of *Clark County Code 22.04, The Building Code of Clark County*.

REGISTERED DESIGN PROFESSIONAL'S

SEAL HERE