CLARK COUNTY FIRE DEPARTMENT - FIRE PREVENTION BUREAU
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Permit Submittal Guideline

NFPA 14 –STANDPIPES REQUIRED DURING CONSTRUCTION

This guide is to assist in the permitting process for temporary standpipe systems during construction. A permit is required for the installation of fire standpipe systems per 105.6.24 of the IFC. The construction Standpipe systems and stairways shall be installed prior to construction exceeding **40 feet** in height above the lowest level of fire department access and extended to highest floor level as construction progresses in accordance with IFC Sections 3307.1.2 and 3307.5. The design shall be in accordance with NFPA 14 Chapter 13.

Please note: When construction reaches a height at which public waterworks system pressures can no longer provide the required flow and pressure to the fire hose valves, a temporary or permanent fire pump shall be installed to provide protection to uppermost level. Fire pumps submittals will be a separate permit.

APPLICABLE CODES:

The following codes and standard apply to this permit.

- *Standard for the Installation of Standpipe Systems*, NFPA 14, 2024 edition
- *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)

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 14 Section 11.1.2 as amended by the CCFC.

2. **HYDRAULIC CALCULATIONS:**
   - Complete hydraulic calculations based on (1) standpipe flowing (2) hose valves at 125 psi at 250 gpm each for a total of 500 gpm.
   - Water supply shall be based on temporary or permanent fire department connection (FDC)
   - Signage shall be posted above FDC reflecting flows and pressure used as the source for calculations.
   - Hydrant will supply water and will be pressurized by fire suppression standard engine.

3. **MATERIAL DATA:** Provide manufacturer's specification sheets for all components.

4. **SUPPORTING DOCUMENTS:** Provide the documents that support the design. These include:

- **SITE PLAN:** Ensure overall site plan is provided showing fire lane access, FDC, hydrant, and signage locations.
- **HEIGHT:** Identify in feet where project will need the new fire pump on-line or a temporary fire pump to supply the required pressure and flow needed to protect the highest level of the project.
- **Please note: Fire hose valve locations shall be located in an exit stairwell or adjacent to temporary stairwells until permanent exit stairwells are completed.**

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 the expertise of fire suppression design per section 901.2.2. of the CFCC. **Submittals shall include the designer's name, certification number and signature.**