



Clark County Fire Department

FIRE PREVENTION BUREAU

4701 W. Russell Road • Las Vegas, NV 89118

John Steinbeck, Fire Chief

Kelly Blackmon, Sr. Deputy Fire Chief/Fire Marshal

Danny Horvat, Assistant Fire Chief • Wayne Dailey, Assistant Fire Chief



PERMIT GUIDE

CLEAN AGENT SYSTEMS

This guide is to assist in the permitting process for clean agent systems. A permit is required for the installation of fire alarm systems per section 105.7.1 of the IFC.

APPLICABLE CODES:

The following codes and standard apply to this permit:

- *National Fire Alarm and Signaling Code, NFPA 72, 2016 edition*
- *Standard on Clean Agent Fire Extinguishing System, NFPA 2001 2018 Edition*
- *International Fire Code, (IFC) 2018 edition*
- *Clark County Fire Code Amendments, (CCFC) 2018 edition*

Link to CCFC: See the amendments to codes and standards using the link below:

<https://cms8.revize.com/revize/clarknv/Building%20&%20Fire%20Prevention/Codes/ClarkCountyFireCodeAmendments2018.pdf?t=1598331770575&t=1598331770575>

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" and saved to a PDF file. Plans shall include all information applicable to project per NFPA 2001, Section 5.1.2, as amended by the CCFC.
2. **CALCULATIONS:** Provide complete calculations to determine enclosure volume, quantity of clean agent, and size of back-up batteries, method used to determine # and location of audible and visual indicating devices and number and location of detectors.
 - Voltage drop calculations on the plans per NFPA 72, as amended by the CCFC, and NFPA 72, Section 18.3.2.4.
 - Load Calculations (all notification appliances and auxiliary circuits)
 - Provide battery calculations for all panels and power supplies per NFPA 72, Section 7.4.10.
3. **MATERIAL DATA:** Provide manufacturer's specification sheets for all components.
4. **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.

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- 5. Plans to be REVIEWED AND SIGNED** by a NICET Level 2 Designer in Fire Alarm Systems and Special Hazard 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.**