



CLARK COUNTY FIRE DEPARTMENT
Fire Prevention Bureau
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Permit Type: 105.7.5.b
Control Number: B.0
Effective Date: 11/15/11

TITLE: AUTOMATIC FIRE SPRINKLER SYSTEMS, MONITORING

SCOPE: Clark County Fire Department requirements for the submittal and design of an Automatic Fire Sprinkler System Monitoring System.

This permit type applies only to buildings that do not have fire alarm systems installed.

For new work in existing buildings, see the "New Work in Existing Buildings" guideline.

PURPOSE: To standardize plan/permit requirements of the Fire Department in accordance with the Clark County Fire Code. Permits are valid through the duration of construction. Work must commence within 180 days, and remain active with no period of inactivity exceeding 180 days, or the permit becomes invalid.

DEFINITIONS:

Assessor's Parcel Number (APN): A unique number assigned to each property by the Clark County Assessor's office.

Sprinkler Monitoring Panel: A sprinkler monitoring panel is a control unit that is intended to only monitor water flow switches, tamper switches, and various fire pump signals. This type of panel is considered to be a dedicated function fire alarm control unit as defined by NFPA 72.

PERMIT FEES:

Permit fees shall be assessed in accordance with the Permit Fee Schedule as adopted in the Clark County Fire Code. For applications that are expedited, additional fees shall apply.

SPECIFICATIONS AND SUBMITTAL REQUIREMENTS:

An application must be completed for each submittal. A minimum of three sets of plans and two sets of specifications shall be submitted with the permit application. The minimum size of the plans shall be 8½"x11". Plans shall show compliance in accordance with Chapter 9 of the Clark County Fire Code, as adopted and amended. All submittals must be legible and readable or the plan shall be issued a correction letter for cause.

For new construction and for sprinkler system retrofits, an automatic fire sprinkler system monitoring permit is required for buildings that contain fire sprinkler systems that have 20 or more sprinkler heads installed, unless the building is classified as a one- or two-family dwelling.

For existing buildings, an automatic fire sprinkler system monitoring permit is required whenever any sprinkler **additions** are being performed within a building (i.e. the total number of sprinklers installed within a building has increased) and the building has 20 or more heads.

In addition, a fire sprinkler monitoring permit is required when a sprinkler monitoring panel is replaced (either with a like-for-like panel or a new model of panel) or when an existing sprinkler monitoring panel is reprogrammed to report to a new monitoring company or to report additional signals.

If a building has only one building permit issued and no tenant building permits have been issued, then multiple interior audible and visual notification appliances may be installed under one sprinkler monitoring permit. Otherwise, each individual tenant shall be permitted separately.

All submittals shall consist of the items listed below, with the exception of when the only work being done is a like-for-like replacement of an existing panel. In this one case, a letter and a panel cut sheet would be an acceptable submittal in lieu of providing plans.

Plans shall address the following:

1. Indicate the project name, address, and APN (Assessor's Parcel Number). Note that each separate building/tenant space having a unique address requires a separate permit.
2. Provide a detailed, written scope of work on the plans. Clearly identify the scope of work for the permit utilizing shading, clouding, or other means to differentiate the scope of work from areas that are not within the scope of work. Clearly indicate on the plans what devices are being installed and what devices were previously installed.
3. The following components must be shown on the plans: the sprinkler monitoring panel, the exterior audible and visual notification appliance (to be located above the Fire Department Connection), and one, and only one, interior audible and visual notification appliance (to be located in a normally occupied location).
4. For multiple-tenant facilities, an interior audible and visual notification appliance shall be provided in each tenant space in a normally occupied location.
5. In the case of a sprinkler monitoring panel upgrade and/or reprogramming of the panel, the plans are to indicate the location of the existing exterior audible and

visual notification appliance, the existing interior audible and visual notification appliance(s), and the location of the panel.

6. For all devices installed, indicate the manufacturer(s) and model number(s) on the plans.
7. Indicate the building occupancy classification, as defined by the International Building Code.
8. Indicate the occupant load and the square footage of the building.
9. Indicate the name and UL or FM number of the central station.
10. Indicate that a dedicated circuit is to be provided to power the sprinkler monitoring panel and shall be labeled as such.
11. The following signals shall be transmitted to a UL- or FM-listed central station: waterflow alarm, valve tamper supervisory, and system trouble.
12. When a building is served by an electric fire pump, the following additional signals shall be transmitted individually to a UL- or FM-listed central station: pump running, loss of phase, phase reversal, and secondary power signals.
13. When a building is served by a diesel fire pump, the following additional signals shall be transmitted individually to a UL- or FM-listed central station: engine running, controller switch off, and controller/engine trouble signals.

Please note that pull stations, duct detectors, smoke detectors, or any other initiating devices shall not be interfaced with sprinkler monitoring panels. Also note that sprinkler monitoring panels shall not provide functions such as, but not limited to, elevator recall functions, air handler shutdown functions, etc.

If there is an existing water motor gong or some other audible notification appliance presently installed outside of the building, was compliant at the time of construction of the original building and is still functional, this existing exterior notification appliance may remain. If there isn't an approved exterior notification appliance installed or isn't functional and was required at the time of construction of the original building, then an exterior audible and visual notification appliance shall be installed.

If an interior notification appliance was required at the time of construction, and it was not installed at that time, then an audible and visual notification appliance is required to be installed inside. If an interior notification appliance was not required at the time of construction of the original building, and no tenant improvements have been made to a particular tenant space since the adoption of the 1994 Uniform Fire Code (effective 4/2/96), then the installation of an interior horn/strobe is not required to be installed. Note that all tenant improvements permitted between 4/2/96 and 3/30/99 require interior

audible notification appliances, and all tenant improvements permitted after 3/30/99 require interior audible and visual notification appliances.

PERMIT REVISIONS AND RESUBMITTALS:

Revisions to approved plans are required to be submitted and approved. Revisions will be assessed additional plan review fees. A copy of the previously approved plan shall accompany the revised submittal to facilitate the review. Clearly indicate all changes to the revised plans by clouding the change with a delta number to signify the date of plan change. When several changes have been made, a detailed list of changes is required.

Re-submittals to address a Letter of Correction will require a full submittal. These plans require a copy of the red lined plan from the previous submittal to facilitate the review. Clearly indicate all changes by clouding the change with the delta number to signify the date of plan change.

PLANS CHECK STATUS INSTRUCTIONS:

The status of the review can be checked by logging on to:
www.clarkcountynv.gov/depts/fire

INSPECTIONS THAT MAY BE REQUIRED AND SCHEDULING INSTRUCTIONS:

If approved, an inspection will need to be scheduled. To schedule an inspection, go to: www.clarkcountynv.gov/depts/fire. A fire inspector will review your site in accordance with the approved plans and this guideline.

The Clark County Fire Department's Fire Prevention Bureau (FPB) may witness and accept inspection, testing and maintenance of fire and life safety systems conducted by approved individuals as required by and within the scope and authority of the Clark County Fire Code.

This Guideline does not take the place of the Fire Code and does not take precedence over any Fire Code requirement or position taken by the Fire Chief. When a conflict exists between the requirements of this Guideline and the Fire Code or the opinion of the Fire Chief, the Fire Code or opinion of the Fire Chief prevails.

Technical Assistance, when required by the fire chief, will require a Technical Opinion and Report prepared by a State of Nevada licensed: qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the Fire Chief and the owner. The Fire Chief is authorized to require design submittals to bear the Wet Stamp and Signature of a professional engineer.

Acceptance of Alternative Materials and Methods requires a Technical Opinion and Report prepared by a State of Nevada licensed: qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the Fire Chief and the owner. The Fire Chief is authorized to require design submittals to bear the Wet Stamp and Signature of a professional engineer.