



North Ada County Fire Rescue District

Ph: (208) 375-0906 Fax: (208) 375-0966

Spray Booth or Spray Room Fire Extinguisher System Permit Application

Date: _____ Permit Number: _____

Project Name: _____

Project Address: _____

*Applicant: _____

Applicant Address: _____

Applicant Telephone: _____ Applicant Fax: _____

Installer Cell Phone: _____ Applicant E-mail: _____

Fee Schedule:

The fee will be determined as per the North Ada County Fire Rescue current fee schedule for Spray Booth or Spray Room Plan Reviews.

Scope of Work:

New/Replacement System

Alteration/Modification of Existing System

* The Applicant shall be responsible to ensure that design specifications and plans are complete and in compliance with the requirements of the International Fire Code and applicable Standards.

Permit Requirements

This permit is for automatic fire extinguishing systems for a Certified Spray Booth or Spray Room. A permit is required for installation of new systems and for any modification of existing systems. A separate permit shall be obtained for each extinguishing system.

Additional Permits Required

Connection of fire extinguishing systems to fire alarm systems requires a separate Fire Alarm permit. Installation or modification of a Spray Booth or Spray Room will require Building and Mechanical permits.

Qualifications

Only persons properly trained shall be considered competent to design, install, and service per-engineered fire extinguishing systems.

Conditions of Approval

Fire extinguishing systems shall comply with the International Fire Code and applicable NFPA standards. If other types of systems are approved by the Fire Chief, design and installation shall be in accordance with the applicable NFPA standard.

Final approval of this permit shall be contingent upon satisfactory inspection and witnessing of testing by the Fire Inspector and approval of the following documentation, to be provided to the Fire Inspector at the time of the final inspection:

- a. (4) copies of the Specifications, per NFPA 33
- b. (4) copies of the "As-built" plans
- c. (4) copies of the manufacturer's listed installation and maintenance manual or listed owner's manual.
- d. (4) copies of the Certification that the Installation is in agreement with the terms of the listing and the manufacturer's instructions and/or approved design, per NFPA 33

The Fire Inspector will retain one copy of each of the above items and one copy shall be provided to the owner to be kept on-site for future reference.

As-Installed Plans

As-installed plans shall be drawn to ¼ scale and shall be reproducible. The floor plans shall contain sufficient detail to enable the authority having jurisdiction to evaluate the protection of the hazard(s).

The details of the system shall include the Make and Model of the system and components, the size, length, and arrangement of connected piping and the description and location of nozzles. Information shall be included pertaining to the location and function of detection devices, operating devices, auxiliary equipment, and electrical circuitry, if used.

Approval of As-Installed Plans

As-installed plans shall be submitted to the Fire Inspector at the time of final inspection.

Installation Requirements

The following requirements are for your convenience only. All submittals must comply with all code requirements and applicable Standards.

Alarm Monitoring

The operation of an automatic fire suppression system installed within a building protected by a fire alarm system, (including a fire sprinkler monitoring system), shall cause an alarm signal at the fire alarm control unit.

Electric and Power Interlocks

Electrical wiring and equipment shall comply with the ICC Electrical Code for hazardous locations. Upon activation of any fire-extinguishing system for a Paint Booth or Spray Room operation, the spraying apparatus, drying apparatus and ventilation system for the spray area shall be equipped with interlocks. Air makeup and flammable vapor area exhaust systems shall not be interlocked with the fire alarm system and shall remain in operation during fire alarm conditions. Exception: Where the type of extinguishing system used requires such ventilation to be discontinued, air makeup and exhaust systems shall shut down and dampers shall close.

Illumination

Luminaires shall comply with the requirements of the International Fire Code and the ICC Electrical Code. Panels for luminaires or for observation shall be of heat-treated glass, wired glass or hammered wire glass and shall be sealed to confine vapors, mists, residues, dusts and deposits to the flammable vapor area. Panels for luminaires shall be separated from the luminaire to prevent the surface temperature of the panel from exceeding 200°F.

Ventilation

Mechanical ventilation of flammable vapor areas shall be provided in accordance with the International Fire Code and the International Mechanical Code. Ventilation systems shall be designed, installed and maintained such that the average air velocity over the open face of the booth, or booth cross section in the direction of airflow during spraying operations, shall not be less than 100 feet per minute.

Warning Signs

No smoking signs shall be conspicuously posted in flammable vapor areas and hazardous material storage rooms.

Welding warning signs shall be conspicuously posted in flammable vapor areas, dipping operations and paint storage rooms. The signs shall read as follows:

NO WELDING
THE USE OF WELDING OR CUTTING
EQUIPMENT IN OR NEAR THIS AREA
IS DANGEROUS BECAUSE OF FIRE
AND EXPLOSION HAZARDS. WELDING
AND CUTTING SHALL BE DONE ONLY
UNDER THE SUPERVISION OF THE
PERSON IN CHARGE.

Approval of Installations

The completed system shall be tested as required by the manufacturer's listed installation and maintenance manual. The tests shall determine that the system has been properly installed and will function as intended. Tests shall be witnessed by the Fire Department Inspector.

The approval tests shall include a "puff" discharge test and functional tests of all devices.

The owner shall be provided with a copy of the manufacturer's listed installation and maintenance manual or listed owner's manual.

The installer shall provide certification to the authority having jurisdiction that the installation is in agreement with the terms of the listing and the manufacturer's listed installation instructions and/or approved design and in accordance with the approved plans.