



DEPARTMENT OF COMMUNITY DEVELOPMENT
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Fire Protection Systems Permit

The following information is required in order to consider applications for Fire Protection Systems (FPS) Permits. South King Fire and Rescue reviews all FPS permits. If any required information is not included, the application may not be accepted.

- Completed *Construction Permit Application* form, which must include:
 - Person responsible for the design, installation, and acceptance testing of entire system
 - Valuation of entire system (pre-engineered systems have not been approved by the authority having jurisdiction)
- Application filing fees
- Current copy of contractor's card and verification of Federal Way business license
- **Two complete sets of plans for work requiring plan review** that include the items detailed below and in the following page

ALL PLANS

- Plan sheets must be a minimum 11" x 17" (maximum 30" x 42"). Plans shall be drawn in indelible ink. Plan sheets that are cut and pasted, taped, or that have been altered by any means (pen, pencil, marking pen, etc.) **will not** be accepted for plan check.
- All plans must be drawn to scale. Scale for site plans is a minimum 1" = 20'-0" (architectural scale equivalent of 1/2" = 10'-0"). The minimum scale for all other drawings is 1/4" = 1'-0" or 1/8" = 1'-0".

FIRE SPRINKLERS

South King Fire & Rescue will review all new sprinkler systems and any additions or alterations to existing systems involving ten or more sprinkler heads. The applicant must supply the following information.

- Site plan
- Floor plans, and shall show those items from the *International Building Code* standard that pertain to the design of the system.
- Two sets of hydraulic calculations, as required
- A person holding a current sprinkler certificate of competency issued by the State of Washington shall stamp the plans and hydraulic calculations

FIRE ALARM

- Floor plans clearly showing the monitoring system, location of all alarm devices and equipment, all connections between devices (both existing and new), and device quantities (shown by total and zone)
- Wiring Riser Diagram
- Two sets of battery calculations and catalog cut sheets for all alarm devices in the system

FIRE SPRINKLER UNDERGROUND SUPPLY

- Site plans that match the legal description, they must clearly show:
 - The location of existing and proposed hydrants
 - All water mains and their sizing
- Details and specification of piping, fire hydrants, valves, connections, and blocking (Coordinate supply connection with local water purveyor for requirements for backflow, type of material, depth, and bury of piping.)

FIRE SUPPRESSION SYSTEM

These drawings may be provided on 8½" x 11" sheets provided the drawings are legible and all pertinent information is shown. Only complete systems will be accepted for review and approval. No partial system submittals. Fire suppression system drawings must include:

- Hood, duct system, and kitchen appliances plan views
- Make, model, and size of the system (Specify the location and describe the nozzles.)
- Information pertaining to the location and function of detection devices, operating devices, auxiliary equipment, and electrical equipment, if any
- Two sets of applicable manufacturer's data sheet

MEDICAL GAS PIPING

- Site plan
 - For outdoor facilities, detailed site plan showing specific location where storage or handling will occur
- Floor plan
 - Detailed floor plan showing specific location where storage or handling will occur
 - Location, size, and materials used in all gas piping systems
 - Location and discharge of emergency vents in accordance with the *International Mechanical Code*

INSTALLATION OF COMMERCIAL FUEL STORAGE TANKS

- Site plan indicating location and size of tank(s), dispensing lines, vent lines and dispensers
- Manufacturer's specifications and installation requirements

REMOVAL OF COMMERCIAL FUEL STORAGE TANKS

- Site plan indicating location and size of tank(s), dispensing lines, vent lines and dispensers
- Method proposed to inert tank(s) prior to removal

INSTALLATION OF CO2 SYSTEMS FOR BEVERAGE DISPENSING*

*PERMIT IS NOT REQUIRED WHERE THE TOTAL QUANTITY OF CO2 IN USE IS NOT GREATER THAN 100 LB.

- Two copies of a Floor Plan that identifies the tank(s) and component locations.
 - Tank(s) placement, relief valves, tubing runs, leak alarm location, ventilation location etc.
- Size and number of tanks.
- How they will be filled.
 - Internal or external port.
- Document how the tanks will be secured into position and how they will be protected from impact or other damage as applicable.
- Signage.
- Specify if an alarm or ventilation will be utilized. Electrical or mechanical permits may be required.
- Two copies of cut sheets for all components.

Systems shall comply with 2015 IFC Chapter 53 including Section 5307, 2013 NFPA 55 and any other applicable codes.