Fire, Other Systems and Equipment

The permit requirements for installation of alternative fire extinguishing systems and equipment is intended to mitigate certain life-safety issues relating to building construction type, occupancy type, or special hazard.

Requirements for Commercial Properties

Commercial structures may require additional extinguishing systems in the following conditions:

A. New commercial structures, occupancies or special hazard as outlined and required in chapter 9 section 904 of the international Building and Fire Codes.

B. Tenant improvements to new and existing structures may require the installation of alternate extinguishing systems as outlined in chapter 9 section 904 of the international Building and Fire Codes.

Alternative Fire Extinguishing Systems and Equipment Requirements

Alternative fire extinguishing systems must be designed by a Washington State certified suppression designer and installed in accordance with the National Fire Protection Standard (NFPA) standard. A separate permit is required for all fire extinguishing systems.

Alternative Fire Extinguishing System and Equipment Submittal Requirements

Application submittal package must include:

A. Completed Alternative Fire Extinguishing System or Equipment Permit Application Form.

B. Plan set cover sheet and two sets of plans. (One digital set when submitting on MyBuildingPermit.com).
   a. Plan cover sheets should include the following information:
      i. A statement of the scope of work that this permit is intended to cover;
      ii. Summary of the number of zones, systems, and devices;
      iii. The fire and water districts serving the proposed site.
      iv. Water supply information.
C. Plans must include the following information:
   a. Plan sets must include the following information:
      i. Scaled and dimensioned plans for the following:
      ii. Complete system details;
      iii. The location of system risers, piping, heads, pumps, fixed systems, generators, or any kind of alternative fire extinguishing system or equipment to be installed (label whether or not equipment is new or existing);
      iv. All systems and equipment cut-sheets;
      v. Hydraulic calculations (as required);
      vi. Area or system to be protected (plan views);
      vii. Fixed sire suppression systems for cooking appliances (plan views);
      viii. Combined hood, duct, and appliances (elevations); and information and details on the system, to include the following:
         1. The make, model, and size of the system.
         2. Specify the location and describe the nozzles so that the adequacy of the system can be determined;
         3. Information pertaining to the location and function of detection devices, operating devices, auxiliary equipment, and electrical equipment, if any.
         4. No approvals will be granted for a fixed fire extinguishing system to be installed until the installation of the hood and duct is approved by the Mechanical Plans Examination Engineer at the Department of Local Services.
      ix. Water main extensions, fire hydrants, or underground sprinkler supply lines shall include the following:
         1. Site plans that match the legal description(s) and must clearly show the following:
         2. The location of existing and proposed hydrants, and all water mains and their sizing. Details and specifications of piping, fire hydrants, valves, connections, and blocking.
         3. Plans, hydraulic calculations or underground supplies and fire hydrants shall be stamped by a person holding a current Sprinkler Certificate of Competency issued by the State of Washington or underground “U” certification for design and installation.
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<th>Equipment Type</th>
<th>Required Documents</th>
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<tr>
<td>Sprinkler Supply/Mains, OR Pump,</td>
<td>• Site Plan • System Plans • Equipment Data Sheets •</td>
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<td>OR Private Hydrant System</td>
<td>Water Verification Letter • Hydraulic Calculations</td>
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<td>Emergency Radio Coverage</td>
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<td>Use Agreement</td>
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<td>Battery Systems OR Generator</td>
<td>• Site Plan • System Plans • Equipment Data Sheets</td>
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<td>Solar Photovoltaic</td>
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<td>Hazmat Materials</td>
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<td>Hazmat Inventory Statement (HMIS) • Hazardous Management</td>
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<td>Smoke Control</td>
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<td>• Smoke Control System Design Report • Mechanical Plans</td>
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<td>• Hood and Duct Plans • Hood and Duct Suppression System</td>
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<td>Other Extinguishing Systems</td>
<td>• Site Plan • System Plans • Equipment Data Sheets</td>
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Obtaining an Alternative Fire Extinguishing System or Equipment Permit

Go to MyBuildingPermit.com

The permit type selections are:

- Jurisdiction: King County
- Application Type: Fire
- Project Type: (Project Type)
- Activity Type: (Choose one)
- Scope of Work: Other Systems and Equipment

If you have questions or would like to inquire about alternatives, please email DPERWebInquiries@kingcounty.gov.

Additional Resources

King County Department of Local Services, Permitting Division

- Permit Fees
- Fire, Other Systems and Equipment Application
- On-line Permit Status, Invoice Payment and Inspection Scheduling
- IVR Inspection Scheduling, phone number and codes
- Fire, King County Frequency Use Agreement

King County Green Building Handbook