

Seattle Permits

—part of a multi-departmental series on City services & permitting

The SFD Engineering Inspection Process for New and Remodeled Buildings

Updated May 2022

The Seattle Fire Department provides inspections to ensure buildings under construction and those being remodeled are in compliance with the Seattle Fire code seattle.gov/fire/firecode. Our inspectors also check that key safety systems such as fire alarms and fire sprinklers are designed correctly and work properly at the time the building is occupied.

When Am I Ready for the Inspection?

For all inspections, work must be complete, pretested and ready.

If you received a plan review letter from SFD, all items listed on the letter must be resolved before you call for an inspection. When the inspector comes to perform the inspection, you will be required to have a copy of the plan review letter and the approved plan set at the job site.

If your project required an electrical or mechanical permit from the Seattle Department of Construction and Inspections (SDCI), your permit must be signed off by SDCI before you call for an inspection.

There are additional criteria that determine your readiness for specific types of inspections.

Fire Alarm Inspection

Before calling for inspection, the electrical permit must be signed off by SDCI and the system must be fully pre-tested. This includes all auxiliary equipment and the fire alarm controls. For new systems (but not for tenant improvements on existing systems), pre-test results must be uploaded to www.thecomplianceengine.com using the [Fire Alarm Acceptance Test](#) template. Please have a printed copy of this Acceptance Test report on site for your inspector. The site must be considered “Final Clean”,

including but not limited to all carpeting, ceiling tile, drywall and doors in place to conduct alarm audibility tests.

Fire Alarm Panel Replacements

Fire alarm panel replacements have different inspection pre-conditions and requirements than new systems or tenant improvements. Please see our [Fire Alarm Panel Replacement Information Sheet](#).

Range Hoods and Suppression/Alternative Extinguishing Systems Inspection

Before calling for inspection, equipment protected by the hood or suppression system must be on site, installed and operable (gas and power). For hood systems, before the inspector arrives, ensure there is a placard mounted to the hood specifying equipment that is protected by the hood, from left to right, and provide a mounted K class extinguisher near the hood. Please ensure the following are available for your inspector: As-Built drawings, SDCI mechanical permit for Type 1 hood, and/or SDCI alternative extinguishing suppression system permit. If the suppression system is monitored by the fire alarm system, then you will need technicians with both a fire alarm certification and a range hood certification present at the time of inspection to test the newly installed system.

“Underground” or Fire Water Supply Connection to City Water Main—Inspection Prior to Cover Inspection

Before you cover the pipes connecting the building’s fire water supply to the City’s water main, you must receive an “underground cover” inspection from SFD. All tie rodding, etc. must be complete and coated with bituminous or other acceptable corrosion retarding material. Inspection of thrust blocks may occur during or after pouring. The depth and width of the block must be exposed for measurement. See also SFD Administrative Rule 9.03 Table A: <http://www.seattle.gov/fire/business-services/fire-code-and-fire-safety-documents#administrativerules>. See also 2018 Seattle



Fire Code 903.3.5 (water supplies) and 903.3.5.4 (installation requirements). This inspection may be combined with "underground" flush and/or flow tests in many but not all circumstances, discuss with your inspector.

“Underground “ or Fire Water Supply Connection to the City Water Main—Hydrostatic Flow Test

Underground piping and connections between the building and the City’s watermain may be covered if cover inspection has occurred, however, pressure drops must be within allowable limits. Hydrostatic flow inspection must occur prior to connection with the building or the City. If a City check valve is present, a “frying pan” must be installed. See also SFD Administrative Rule 9.03 Table A for additional clarification: <http://www.seattle.gov/fire/business-services/fire-code-and-fire-safety-documents#administrativerules>. May be combined with "underground" flush and/or flow tests in many but not all circumstances, discuss with your inspector.

“Underground” or Fire Water Supply Connection to City Water Main—Flush Inspection

Inspection must occur prior to connecting with the building system. See also SFD Administrative Rule 9.03 Table A for additional clarification: <http://www.seattle.gov/fire/business-services/fire-code-and-fire-safety-documents#administrativerules>. May be combined with "underground" flush and/or flow tests in many but not all circumstances, discuss with your inspector.

Please be aware that a **Contractor’s Materials and Test Certificate for Underground Piping** must be provided to your SFD inspector prior to receiving final SFD sign off. See example here: <http://www.seattle.gov/fire/business-services/construction-inspections#additionalinspectionprerequisitesforcertaininspections>.

Sprinkler Cover Inspection

You must call for cover inspections prior to installation of drywall or tiles that would interfere with visual access. Any time a sprinkler head is changed or moved, you must have an inspection.

Sprinkler Final Inspection

A **Contractor’s Materials and Test Certificate for Aboveground Piping** must be provided to your SFD inspector prior to receiving final SFD sign off. See

example here: <http://www.seattle.gov/fire/business-services/construction-inspections#additionalinspectionprerequisitesforcertaininspections>.

Emergency Responder Radio Coverage Systems (BDA/DAS) Functional Verification Inspection

To prepare for your SFD inspection on BDA/DAS system, please review these materials: <https://www.seattle.gov/fire/business-services/systems-testing#bdadasemergencyradiocommunications>. SFD provides a mandatory functional verification of the system using public safety radios. Contractors must submit commissioning or “acceptance test” results to SFD at least 24 hours prior to the SFD inspection through our third party vendor www.thecomplianceengine.com. To create an account to enter test results please visit <https://www1.thecomplianceengine.com/company/register>.

How Do I Request an Inspection?

Regular Inspections

Most inspections are conducted during normal business hours. Request an inspection by visiting our website and filling out the form online: <http://www.seattle.gov/fire/business-services/construction-inspections>.

Overtime Inspections

If you would like an inspection in the early morning hours, evenings or weekends, use the online inspection request form and select the overtime option when you provide your requested inspection times:

<http://www.seattle.gov/fire/business-services/construction-inspections>. There is an additional charge for overtime inspections based on the actual labor cost to SFD for the overtime hours.

Please see our [Best Practices for Scheduling an Inspection](#) to avoid common mistakes and allow us to schedule you as quickly as possible.

What Information Do I Need When I Request an Inspection?

We need information about the financially responsible party (to bill for inspection fees if not already paid with your SDCl permit) as well as information about the SFD certified technician who will be present for the inspection. You will also need to provide information about the type of inspection, the address, and the number of devices to be

tested.

How Far in Advance Should I Request My Inspection?

We are generally scheduling two to three weeks in advance for regular time inspections due to the availability of inspectors. Overtime inspections are currently scheduling about five days in advance. If you follow the procedures outlined in this client assistance memo, you can help avoid delays to your inspection.

Must I be Present When the Inspector Comes? Do I Need Approved Plans On Site?

Yes. A representative who is capable of performing the required tests, capable of providing access to inspection areas, and certified by the Seattle Fire Department must be present. This person must:

- present their certification card to the inspector for verification.
- have a copy of the approved plans.
- have a copy of the plan review letter.

How Can I Talk to My Inspector?

You can leave a message for an SFD inspector by calling (206) 386-1443. Inspectors will return calls when in the office.

What Do I Do If I Have a Question When an Inspector is Not Available?

The Lieutenant of Engineering is available during the day to answer specific questions related to your field inspections. Please email us at SFD_FMO_Engineering@seattle.gov. related questions, but please direct field inspection.

Will I be Billed for a Failed or Missed Engineering Inspection?

Fees for most Seattle Fire Department construction inspections include a repeat inspection at no charge if the system does not pass the first inspection. However, if the contractor's lack of preparation is the reason for the failed inspection, the Seattle Municipal Code provides the Seattle Fire Department with the ability to recover the costs the department incurred in providing that inspection. In 2021, the fee is \$273 per hour, including time spent by

inspectors preparing for the inspection, travelling, and at the job site. If the following items are not completed prior to the SFD inspector's arrival at the jobsite, the responsible party will be charged a failed inspection fee:

1. All required equipment and personnel, including those with relevant certification, are onsite.
2. All required pre-tests are completed and paperwork available for inspector. For new fire alarms and new BDA systems, acceptance test report must be submitted to www.thecomplianceengine.com prior to the SFD final inspection for that system.
3. Proof of SDCI electrical permit signed off, if applicable.
4. Proof of SDCI certification for elevators (final white tag), if applicable.
5. Stamped/approved set of fire system plans (sprinkler, alarm, etc.) are available for inspector, if applicable.
6. Sprinkler piping is not covered by dry wall or ceiling tiles, and is visible for the inspector, if applicable.
7. Underground sprinkler supply line is not covered and is visible for the inspector, if applicable.
8. Fire Department Plan Review Letter requirements have been met, if applicable.
9. For DAS/BDA, acceptance/commissioning report uploaded to www.thecomplianceengine.com (required as of 4/1/2021)

How Do I Cancel an Inspection? Are There Fees if I Don't Cancel My Inspection Timely?

To cancel an inspection, email us with the subject line "Cancel Inspection" and include the inspection date, time, location, and type in the body of the email. Send the email to: SFD_FMO_Engineering@seattle.gov for regular and overtime inspections.

You will be charged a fee if an inspection is cancelled without sufficient notice. Fees and timelines are as follows:

- *Regular inspections* Cancel with at least 24 hours notice to avoid a late cancellation fee of \$273.
- *Overtime inspections* Cancel by 9 a.m. on the business day prior to the inspection to avoid a late

cancellation fee corresponding to the labor costs incurred by the City.

What Do I Do if I Do Not Understand the Required Corrections?

You may contact your assigned inspector directly or at (206) 386-1443 for any explanation or clarification that may be necessary.

When Can I Occupy or Use My Structure?

Occupancy and use of the structure are permitted only after approval of SDCI which takes the form of a Certificate of Occupancy. You are in violation if you occupy the premises prior to obtaining this approval.

In some cases a temporary certificate of occupancy may also be approved prior to the issue of the full Certificate of Occupancy - please see <https://www.seattle.gov/fire/business-services/construction-inspections> for information on temporary certificates of occupancy. Individuals who are *non construction workers* are permitted to enter the building prior to the building receiving a Temporary Certificate of Occupancy when permitted by the General Contractor. The General Contractor is responsible to provide safety training to authorized individuals and to ensure they are properly equipped with all personal protection equipment required for the construction site by Washington State Labor & Industry regulations. All such individuals touring the building are required to be escorted by the General Contractor or their designee.

People preparing the building for occupancy do not require an escort when permitted by the General Contractor. In occupancies required to be provided with automatic sprinklers, storage or accumulation of combustible material not associated with building construction is prohibited in the building before the sprinkler system is approved.

See also information on Temporary Certificates of Occupancy here: <https://www.seattle.gov/fire/business-services/construction-inspections>.

When Can I Request Approval to Occupy My Building?

When the fire protection systems are approved and inspected and the exit ways are completed.

What Are the Fees For an Inspection?

Please see the fee information provided on our website: <http://www.seattle.gov/fire/inspections>.

If I Contract With a Builder For the Construction, Who is Responsible To Call for Inspections and Final Occupancy Approval?

The legal owner is responsible to call for inspections and approvals. If you want your builder to assume this responsibility, this should be specified within your contract. Check your permit and make sure final approval to occupy has been given prior to moving into the building. Normally, the installing company schedules the inspection appointment for their installation.

Where Can I Find More Information about Seattle Public Utilities (SPU) Water Service Requirements?

To schedule an SPU inspection for underground cover or backflow assemblies, call (206) 684-5803, from 8:00 to 9:00 a.m., or after 9:00 a.m. call (206) 684-3333.

SPU requires inspections for water service piping used for fire protection and domestic water. Please follow these links to find more information from SPU regarding underground cover, backflow requirements, and cross connections. <https://www.seattle.gov/utilities/construction-resources/water>

You may also reference the following ordinances and code sections:

Seattle Municipal Code (Cross Connections): SMC 21.04.070 Cross-Connections: https://library.municode.com/wa/seattle/codes/municipal_code?nodeId=TIT21UT_SUBTITLE_IWA_CH21.04WARARE_21.04.070CRNN

Washington Administrative Code (Cross Connections): WAC 246-290-490: <http://apps.leg.wa.gov/wac/default.aspx?cite=246-290-490>