



Rhode Island State Fire Marshal Requirements for Plan Review Submittals

Under the authority granted in section 1.14.1 of the Rhode Island Uniform Fire Code, the following rules are promulgated for submittal of construction documents and shop drawings:

1. Submit completed State Fire Marshals Office plan review application. Application for plan review may be made by the owner, lessee of the premises, or by the agent of either, or by the engineer, architect, or designer employed in connection with the proposed work.
2. Submit copy of building permit application (applicant shall obtain from the Building Inspector's Office in the jurisdiction where the property is located).
3. Submit plan review fee in accordance with Rhode Island General Law 23-28.2-6. No cash will be accepted. All checks shall be made payable to "**State of Rhode Island**".

23-28.2-26. Plan review fees.

Statute text

(a) Every request for plan review, by the state fire marshal's office, under the provisions of the Fire Safety Code shall be accompanied by the fee prescribed in this section. Plan review fees shall be as follows:

NEW BUILDING, ADDITIONS, ALTERATION, STRUCTURES, ETC.

General permit fees based on cost of construction

\$500 or less \$25.00

Over \$500 but not over \$1,000 \$35.00

Over \$1,000 but not over \$2,000 \$45.00

Over \$2,000 but not over \$500,000 \$45.00+

(Plus \$6.00 per \$1,000 or fraction thereof over \$2,000)

Over \$500,000 \$3,033.00+

(Plus \$4.00 per \$1,000 or fraction thereof over \$500,000)

The applicant must submit documentation of bids or estimates if there is a dispute regarding the proposed construction costs. Refer disputes to the State Fire Marshal.

The application for review shall be accompanied by not less than five (5) copies of construction drawings drawn to scale with sufficient clarity and detailed dimensions to show the nature and the character of the proposed work. Where deemed necessary, test numbers or other data may be required to document code conformance. One (1) project manual/specification manual shall also be required, where produced in conjunction with drawings. (plans will be distributed as follows, State Fire Marshals Office, State or Local Building Code Official, Owners Copy, Site Copy, Local Fire Alarm Superintendent)

Sprinkler System Plans:

- a) Working plans shall be submitted for approval before any equipment is installed or remodeled. Deviation from approved plans will require permission.
 - b) Working plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor, and shall meet the criteria in NFPA 13, 2002 edition, chapter 14.
 - c) The working plan submittal shall include manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any sprinklers, devices, piping, or fittings.
 - d) Hydraulic calculations shall be prepared and submitted on form sheets that include a summary sheet, detailed work sheets, and a graph sheet.
 - e) A graphic representation of the complete hydraulic calculation shall be plotted on semi-exponential graph paper and shall include the following:
 - (1) Water supply curve.
 - (2) Sprinkler system demand.
 - (3) Hose demand (where applicable).
 - (4) In-rack sprinkler demand (where applicable).
 - f) The following Water Supply Information shall be included:
 - (1) Static pressure, psi (bars).
 - (2) Residual pressure, psi (bars).
 - (3) Flow, gpm (L/min).
 - (4) Date & time.
 - (5) Who conducted flow test?
 - (6) Other sources of water supply, with pressure or elevation.
 - g) In order to have accurate hydraulic calculations, flow test data shall not be greater than two years old. If a flow test needs to be conducted, contact the appropriate water authority in the jurisdiction.
 - h) The available pressure for a sprinkler system shall be at least 5 psi above the minimum pressure required (i.e., sprinkler system supply shall exceed demand by not less than 5 psi).
4. Fire Protection Systems: A narrative report shall be submitted for all fire protection systems. The narrative report is intended to provide a single document, which describes the design rationale of all fire protection systems and the interface between systems.

Certificate of Occupancy Testing and Acceptance Criteria

Following is a list of certificates and documents that are required to be presented to the State Fire Marshals Office for the acceptance of fire protection and life safety systems. This list is made to be as complete as possible; however, it may not be all-inclusive. The State Fire Marshals Office reserves the right to request additional information if deemed necessary. In most cases, it will be necessary for a fire marshals office representative to be present during the acceptance testing. This will be determined on a case by case basis unless otherwise noted. *The following information must be submitted directly to the State Fire Marshals Office before any Certificate of Occupancy will be signed.*

1. Contractor's Material and Test Certificates for Above Ground and Under Ground Piping as required in NFPA 13, 2002 edition.
2. Contractor's Material and Test Certificate for Above Ground and Underground Piping for standpipe systems as required in NFPA 14, 2003 edition.
3. Fire pumps and controllers shall be acceptance tested per NFPA 20, 1999 edition. This standard requires that the acceptance of new fire pumps be witnessed by a representative of the State Fire Marshals Office or Local Fire Department. This test should only be scheduled after the installing contractor has performed a preliminary acceptance test.
4. Emergency power supply systems that use generators to produce required emergency or standby power shall comply with the acceptance testing requirements of NFPA 110, 2002 edition. The test documentation required in section 7.13.11 shall be provided.
5. Final acceptance testing of the fire alarm system in accordance with RIUFC Chapter 13 and NFPA 72. A pretest report and NFPA 72 record of completion shall be submitted to the State Fire Marshals Office or Local Fire Department Fire Alarm Division at the final acceptance test.
6. Flame spread documentation for all interior finishes and decorative materials. Items include, but are not limited to carpets, paneling, drapes, curtains, wainscoting, moveable office partitions, etc.
7. Smoke control systems required by the Rhode Island Life Safety Code shall be tested by a special inspector. The engineer of record shall clearly identify the intent of the system, the design method used, the appropriateness of the method used, and the

State Fire Marshal's Office
118 Parade Street
Providence, RI 02909
Phone 401-462-4200 Fax 401-462-4250

means of inspecting, testing and maintaining the system. The special inspector shall submit an inspection and test report to the authority having jurisdiction and registered design professional in charge.

8. Fire evacuation or Crowd Management plan if required. See RI Uniform Fire Code (NFPA 1)
9. Performance based design projects require the State Fire Marshal's Office be a stakeholder in the project.