Natrona County Fire Protection District
Office of the Fire Marshal
555 N Robertson Road · Casper, WY 82604
Phone (307) 234-4679 · Fax (307) 265-0353

Fire Suppression Submittal Requirements

(IFC 2024 and 2019 NFPA 13 Standards)

As of January 1st 2026:

Working plans shall be drawn to an indicated scale, with a plan for each floor and shall show those items from the following list that are applicable to the design. (2019 NFPA 13 Article 27.1.3)

1. Name of Owner and Occupant
2. Location, including Street Address.
3. Point of compass.
4. Full height cross section or schematic diagram, including structural member information if required for clarity and including ceiling and method of protection of non-metallic piping.
5. Ceiling/roof heights and slopes not shown in the full height cross section
6. Location of partitions.
7. Location of Fire walls.
8. Occupancy classification of each area or room.
9. Location and size of concealed spaces, closets, attics, and bathrooms.
10. Any small enclosures in which no sprinklers are to be installed.
11. Size of city main in street and whether dead end or circulating. If dead end, direction and distance to nearest circulating main, and city main test results and system elevation relative to test hydrants.
12. Other sources of water supply, with pressure and elevation.
13. Make, type, model, and nominal K-factor of sprinklers, including identification number.
14. Temperature rating and location of high-temperature sprinklers.
15. Total area protected by each system on each floor.
16. Number of sprinklers on each riser per floor.
17. Total number of sprinklers on each dry pipe system., preaction system, combined dry pipe-preaction system or deluge system.
18. Approximate capacity in gallons on each dry pipe system.
19. Pipe type and schedule of wall thickness.
20. Nominal pipe size and running lengths of pipe or center to center dimensions. Where typical branch lines prevail, it is only necessary to size one typical line.
21. Location and size of riser nipples.
22. Type of fittings and joints and location of all welds and bends. Specify on drawings any sections to be shop welded and the type of fittings and formations to be used.
23. Type and locations of hangers, sleeves, braces and methods of securing sprinklers when applicable.
24. All control valves, check valves, drain pipes and test connections.
25. Make, type, model and size of backflow prevention assembly, and means to forward flow test at system demand.
26. Make, type, model and size of alarm or dry pipe valve.
27. Make, type, model and size of preaction or deluge valve.
28. Kind and location of alarm bells.
29. Size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment.

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30. Private fire service main sizes, lengths and locations, weights, materials, point of connection to city main, the sizes, types and locations of valves, valve indicators, regulators, meters, and valve pits, and the depth that the top of the pipe is laid below grade.
31. Piping provisions for flushing.
32. Where the equipment is to be installed as an addition to an existing system, enough of the existing system shall be indicated on the plans to make all conditions clear.
33. For hydraulically designed systems, the information on the hydraulic data nameplate.
34. A graphic representation of the scale used shall be shown on all pages.
35. Name, Address, and phone number(s) of the Contractor.
36. Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets.
37. The minimum rate of water application (density or flow discharge pressure), the design area of water application, in-rack sprinkler demand and the water required for hose streams both inside and outside.
38. The total quantity of water and pressure required noted at a common reference point for each system.
39. Relative elevations of sprinklers, junction points, and supply or reference points.
40. If room design method is used, all unprotected wall openings throughout the floor protected.
41. Calculation of loads for sizing and details of sway bracing.
42. Zones of influence used in calculations for seismic bracing indicated on plans.
43. The setting for pressure-reducing valves.
44. Information about listed anti-freeze solution used (type and amount).
45. Size and location of hydrants showing size and number of outlets and if outlets are to be equipped with independent gate valves. Whether hose houses and equipment are to be provided, and by whom, shall be indicated. Static and residual hydrants that were used in flow tests shall be shown.
46. Size, location and piping arrangement of fire department connections.
47. Edition year of NFPA and specific sprinkler system design. (NFPA 2019 – 13, 13R, 13D)
48. Submittal shall include the manufactures installation instructions for any specially listed equipment, including descriptions, applications and limitations for any sprinklers, devices, piping, or fittings.

In addition to the items listed above, Review submittals shall include:

1) Hydraulic calculations where systems are required to be calculated.
2) Data sheets for system components.
3) Owner's information certificate checklist per NFPA 13

Permit Fees: Are based off the *number of heads* proposed in the fire suppression submittal, *fire pumps and multi-story are an additional fee. Below ground inspections, flow/flush inspections, rough-in/visual, Above ground inspections, and Final Acceptance are all separate "inspection" fees.

All sprinkler system designs shall be prepared by or under the direct supervision of an Engineer registered to work in the State of Wyoming, or by an individual Certified by NICET at Level III or greater.

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OWNER'S INFORMATION CERTIFICATE CHECKLIST

The following content is from Figure A.28.1(b) in NFPA® 13, *Standard for the Installation of Sprinkler Systems*, 2025 edition.

Name of property:			
Address:	City:	State:	Zip Code:
Name of owner:			
Existing or planned construction is: ☐ Fire resistive or noncombustible ☐ Wood frame or ordinary (masonry walls with wood beams) ☐ Unknown	Describe the intended use of the building:		

Note regarding speculative buildings: The design and installation of the fire sprinkler system is dependent on an accurate description of the likely use of the building. Without specific information, assumptions will need to be made that will limit the actual use of the building. Make sure that you communicate any and all use considerations to the fire sprinkler contractor in this form and that you abide by all limitations regarding the use of the building based on the limitations of the fire sprinkler system that is eventually designed and installed.

Is the system installation intended for one of the following special occupancies:

Y	N	Special Occupancies	Y	N	Special Occupancies
		Aircraft hangar			Airport terminal
		Fixed guideway transit system			Aircraft engine test facility
		Race track stable			Power plant
		Marine terminal, pier, or wharf			Water-cooling tower

If the answer to any of the above is "yes," the appropriate NFPA standard should be referenced for sprinkler density/area criteria.

Indicate whether any of the following special materials are intended to be present:

Y	N	Special Materials	Y	N	Special Materials
		Flammable or combustible liquids			Compressed or liquefied gas cylinders
		Aerosol products			Liquid or solid oxidizers
		Nitrate film			Organic peroxide formulations
		Pyroxylin plastic			Idle pallets

If the answer to any of the above is "yes," describe type, location, arrangement, and intended maximum quantities.

CERTIFICATE CHECKLIST *Continued*

Indicate whether the protection is intended for one of the following specialized occupancies or areas:

Y	N	Occupancy or Area	Y	N	Occupancy or Area
		Spray area or mixing room			Class A hyperbaric chamber
		Solvent extraction			Cleanroom
		Laboratory using chemicals			Incinerator or waste handling system
		Oxygen-fuel gas system for welding or cutting			Linen handling system
		Acetylene cylinder charging			Industrial furnace
		Production or use of compressed or liquefied gases			Water-cooling tower
		Commercial cooking operation			

If the answer to any of the above is "yes," describe type, location, arrangement, and intended maximum quantities.

Will there be any storage of products over 12 ft (3.7 m) in height? ☐ Yes ☐ No

If the answer is "yes," describe product, intended storage arrangement, and height.

Will there be any storage of plastic, rubber, or similar products over 5 ft (1.5 m) high except as described above? ☐ Yes ☐ No

If the answer is "yes," describe product, intended storage arrangement, and height.

Is there any special information concerning the water supply? ☐ Yes ☐ No

If the answer is "yes," provide the information, including known environmental conditions that might be responsible for corrosion, including microbiologically influenced corrosion (MIC). Determine and confirm the water supply including any necessary adjustments:

CERTIFICATE CHECKLIST *Continued*

Is seismic protection required? ☐ Yes ☐ No

Provide design spectral response acceleration at short periods (S_{DS}):

I certify that I have knowledge of the intended use of the property and that the above information is correct.

Signature of owner's representative or agent: _____ Date: _____

Name of owner's representative or agent completing certificate (print): _____

Relationship and firm of agent (print): _____