This Checklist outlines general requirements for Clean Agent Fire Extinguishing Systems. Information contained herein applies to typical instances and may not address all circumstances.

Reference numbers following worksheet statements represent an NFPA code section unless otherwise specified.

**GENERAL**

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1. ☐ ☐ Hydrostatic test: wet system, 200 PSI for 2 hours or 50 over static.

2. ☐ ☐ Hydrostatic test: dry and double interlock system: 200 PSI for 2 hours and a 40 PSI air leak test for 24 hours with less than 1.5 PSI loss, 16.2.2.

3. ☐ ☐ Systems subject to pressures greater than 150 PSI shall be hydrostatically tested at 50 PSI above system working pressure, 16.2.1.2.

**SPRINKLERS**

4. ☐ ☐ Spare sprinklers – Provide at least 6 spare sprinklers for systems designed with 300 or less sprinklers; 12 spare sprinklers for system designed using 300 to 1000 sprinklers, and 24 spare sprinklers for systems designed using more than 1000 sprinklers, 6.2.9.

5. ☐ ☐ Replacement wrench(s) are provided, 6.2.9.

6. ☐ ☐ Sprinklers shall be a minimum of 4 inches from the wall and be properly spaced, 8.6.3.3.

7. ☐ ☐ Sprinkler is equipped with a guard if it subject to damage.

8. ☐ ☐ Sprinklers are not painted or covered.

9. ☐ ☐ ESFR upright deflectors are a minimum 7 in. above the top of the pipe, 8.12.5.3.2.1.

10. ☐ ☐ EFSR sprinklers are at least 1 ft. horizontally from the bottom edge of bar joist or open truss and at least 3 ft. above the top of the storage level, 8.12.6.

11. ☐ ☐ The proper type and temperature sprinklers are used and match plans.
12. ☐ ☐ Escutcheon plates are installed.

13. ☐ ☐ Sprinklers are not obstructed, 8.5.5-8.12.5.

PIPE: HANGERS, SEISMIC, AND PENETRATIONS

14. ☐ ☐ Piping layout and pipe size are the same as the plans.

15. ☐ ☐ Pipe penetrations have proper clearance 2 in. for pipe 1in. to 3½ in., 4 in. for pipe 4 in. and larger, 9.3.

16. ☐ ☐ When flexible couplings are used in risers, above and below floor penetrations of multi-story structures, near penetrations of concrete or masonry walls, and near expansion joints, their location is in accordance with Section 9.3.2.3 (1)-(4).

17. ☐ ☐ Minimum clearance around pipes penetrating construction element listed in 9.3.4.1 is in accordance with 9.3.4.2 unless the requirements of 9.3.4.3 – 9.3.4.5 are met.

18. ☐ ☐ A seismic separation assembly is provided at building seismic joints, 9.3.3.

19. ☐ ☐ Lateral sway bracing spacing is in compliance with the approved set of plans, 9.3.5.3. Special CA amendment “Lag screws or powder-driven fasteners shall not be used to attach braces to the building structure.”

20. ☐ ☐ Lateral sway bracing is within 20 ft. of the end of the pipe, 9.3.5.3.2. Special CA amendment “Where pipe is used for sway bracing, it shall have a wall thickness of not less than Schedule 40.”

21. ☐ ☐ Spacing does not exceed 80 ft. for longitudinal sway bracing, which is required for feed and cross mains, and the last brace is within 40 ft. of the end of the pipe, 9.3.5.4.1 and 9.3.5.4.3.

22. ☐ ☐ A four-way sway brace spacing is not greater than 25 ft. and a four way brace is located at the top of the riser if the top of the riser exceeds 3 ft. in length, 9.3.5.5.

23. ☐ ☐ Longitudinal and lateral bracing is provided for each run of pipe between the change of pipe direction unless the pipe run is less than 12 ft., 9.3.5.11.

24. ☐ ☐ Sprigs greater than 4 ft. are restrained from lateral movement, 9.3.6.5.

25. ☐ ☐ Splayed seismic bracing wire, wrap-around u-hooks, or lateral sway bracing shall not exceed 30 ft. spacing and are used to restrict sprinkler movement that could impact the building, equipment or finishing materials, 9.3.6.4.

25. ☐ ☐ Restraining straps are on all C-clamps and the strap is bolted through if there is not a lip on the beam, 9.3.7.1.

26. ☐ ☐ Branch lines have one hanger per section of pipe, 9.2.3.2.

27. ☐ ☐ Mains and cross mains have one hanger between each branch line and at the end of the main.

28. ☐ ☐ The maximum distance between the end sprinkler and hanger is 36 in. for 1 in. pipe, 48 in. For 1½ in., and 60 in. for 1½ in. pipe and greater, 9.2.4.

29. ☐ ☐ Hangers are not within 3 in. of upright sprinklers, 9.2.3.3.