



North Lauderdale Department of Fire and Rescue Services Fire Prevention Bureau

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North Lauderdale, Florida 33068
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AUTOMATIC FIRE SUPPRESSION SYSTEM SHOP DRAWING SUBMITTAL REQUIREMENTS

An **Automatic Fire Suppression System Shop Drawing** is required for review by the Fire Prevention Bureau for any modification(s) or change(s) to existing automatic fire suppression systems and any new installations. The Automatic Fire Suppression System Shop Drawing(s) must include but not limited to all of the information listed below. ***If any portion does not apply, a note must be provided on the plan stating that it is not applicable.*** If any portion of the requested information is not provided or clarified, the plan will be returned for that provision or clarification to be made and a re-examination fee may apply. Should you have any questions, please contact the Fire Prevention Bureau with the information provided in the letterhead.

THE AUTOMATIC FIRE SUPPRESSION SYSTEM SHOP DRAWING MUST INCLUDE BUT NOT LIMITED TO ALL OF THE FOLLOWING:

1. Provide a letter format response with all re-submittals
2. A detailed Scope of Work
3. A Scaled plan with the scale indicated
4. North Directional Indicator
5. Legend
6. The plans must be signed and sealed by the architect and/or engineer.
7. If the job value is less than \$5,000.00 and the plan is not signed and sealed by the architect or engineer, provide a copy of the signed contract with the plan submittal.
8. A total square footage of the tenant space
9. Provide product spec sheets for all portions, devices, nozzles, appliances, micro switches, etc. of the automatic fire suppression system.
10. Hi-light all model numbers and associated flow points applicable to each device, nozzle, appliance, etc. on all product spec sheets.
11. Demonstrate the size, length and arrangement of connected piping

12. Demonstrate the locations of all nozzles
13. Demonstrate the locations of all fusible links
14. Demonstrate the location(s) of the wet chemical tank
15. Provide a sequence of operation

16. Provide a note or demonstrate on the plan that the operation of the automatic fire suppression system installed within the protected premises shall cause an alarm signal at the protected premises fire alarm control unit. N.F.P.A. 72:6.8.5.6.1 (where applicable)

17. Demonstrate the flow point calculations

18. If any item(s) is overlooked in the plan review process and discovered during the field inspection it MUST be corrected to meet the actual code requirements.

PROVIDED ALL OF THE FOLLOWING NOTES ON THE PLAN:

19. The wet chemical system shall be installed in accordance with NFPA 17A, 2009 Edition and NFPA 96, 2011 Edition and shall comply with all requirements of the Florida Fire Prevention Code, 5th Edition, The Broward County Amendments to the Florida Fire Prevention Code, N.F.P.A. 101 (Life Safety Code), 2012 Edition, and N.F.P.A. 1 (Uniform Fire Code), 2012 Edition.

20. The wet-chemical fire extinguishing system shall comply with standard UL 300, *Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Areas* (NFPA 17A:5.1.1).

21. Upon activation of any fire-extinguishing system for a cooking operation, all sources of fuel and electric power that produce heat to all equipment requiring protection by that system shall automatically shut off (NFPA 96:10.4.1).

22. The shutoff devices shall require manual resetting prior to fuel or power being restored (NFPA 17A: 4.4.3.7).

23. All devices necessary for proper operation of the system shall function simultaneously with the system operation (NFPA 17A: 5.2.1.4).

24. The operation of any manual actuator shall be all that is required to bring about the full operation of the system (NFPA 17A: 5.2.1.5).

25. A horn/strobe device shall be provided to show that the system has operated; that personnel response is needed, and that the system is in need of recharge (per AHJ).

26. A readily accessible means for manual activation shall be located in a path of egress. When manual activation is used for cooking related protection, the manual

activation device shall be installed no more than 48 in., nor less than 42 in. above the floor and shall clearly identify the hazard protected. (NFPA 17A: 5.2.1.10).

27. The manual actuators shall not require a force of more than 40 lb (NFPA 17A: 4.4.2.1).

28. The manual actuators shall not require a movement of more than 14 in. (NFPA 17A: 4.4.2.2).

29. All manual actuators shall be provided with operating instructions (NFPA 17A: 4.4.2.3).

30. All remote manual operating devices shall be identified as to the hazard they protect (NFPA 17A: 4.4.2.5).

31. When the fire-extinguishing system discharges, makeup air supplied internally to a hood shall be shut off. (NFPA 96:8.3.2).

32. All interior surfaces of the exhaust system shall be accessible for cleaning and inspection purposes (NFPA 96:4.1.8).

33. A placard identifying the use of a class K portable fire extinguisher as a secondary backup means to the automatic fire-extinguishing system shall be conspicuously placed near each portable fire extinguisher in the cooking area (NFPA 96:10.2.2).

34. Fixed pipe extinguishing systems in a single hazard area shall be arranged for simultaneous automatic operation upon actuation of any one of the systems (NFPA 96:10.3.1).

35. Where electrical power is required to operate the automatic fire-extinguishing system, it shall be monitored by a supervisory alarm, with a standby power supply provided (NFPA 96:10.7.1).

36. An approved method shall be provided that will ensure that the appliance is returned to an approved design location (NFPA 96:12.1.2.3.1).

37. Where a Fire Alarm Signaling System is serving the occupancy where the extinguishing system is located, the activation of the automatic fire-extinguishing system shall activate the Fire alarm System NFPA 96 10.6.2

If any item(s) is overlooked in the plan review process and discovered during the field inspection it MUST be corrected to meet the actual code requirements.