

COMMERCIAL/INDUSTRIAL PLAN REVIEW CHECKLIST
SPECIAL HAZARDS FIRE SUPPRESSION SYSTEMS



Project #

Project:	<input type="text"/>	Contractor:	<input type="text"/>
Address:	<input type="text"/>	License:	<input type="text"/>
	<input type="text"/>	Phone:	<input type="text"/>
AHJ:	<input type="text"/>	Contact:	<input type="text"/>
	<input type="text"/>	Email:	<input type="text"/>

**ITEMS MARKED WITH AN ARE INCOMPLETE, IN ERROR, OR REQUIRE REVISION.
ALL OTHER ITEMS ARE CONSIDERED ACCEPTABLE OR NOT APPLICABLE TO THIS PROJECT.**

<input type="checkbox"/>	1	Name of owner and occupant
<input type="checkbox"/>	2	Location, including street address
<input type="checkbox"/>	3	Point of compass and symbol legend
<input type="checkbox"/>	4	Location and construction of protected enclosure walls and partitions
<input type="checkbox"/>	5	Location of fire walls
<input type="checkbox"/>	6	Enclosure cross-section, shown as a full-height or schematic diagram, including location and construction of building floor-ceiling assemblies above and below, raised access floor, and suspended ceiling
<input type="checkbox"/>	7	Agent being used
<input type="checkbox"/>	8	Agent concentration at the lowest temperature and the highest temperature for which the enclosure is protected
<input type="checkbox"/>	9	Description of occupancies and hazards being protected, designating whether the enclosure is normally occupied
<input type="checkbox"/>	10	For an enclosure protected by a clean agent fire extinguishing system, an estimate of the maximum positive and maximum negative pressure, relative to ambient pressure, expected to be developed upon the discharge of agent
<input type="checkbox"/>	11	Description of exposures surrounding the enclosure
<input type="checkbox"/>	12	Description of the agent storage containers used, including the internal volume, storage pressure, and nominal capacity expressed in units of agent mass or volume at standard conditions of temperature and pressure
<input type="checkbox"/>	13	Description of nozzle(s) used, including size, orifice port configuration, and equivalent orifice area
<input type="checkbox"/>	14	Description of pipe and fittings used, including material specifications, grade, and pressure rating
<input type="checkbox"/>	15	Description of wire or cable used, including classification, gauge (American Wire Gauge (AWG)), shielding, number of strands in conductor, conductor material, and color coding schedule; segregation requirements of various system conductors; and required method of making wire terminations
<input type="checkbox"/>	16	Description of the method of detector mounting
<input type="checkbox"/>	17	Equipment schedule or bill of materials for each piece of equipment or device showing device name, manufacturer, model or part number, quantity and description
<input type="checkbox"/>	18	Plan view of protected area showing enclosure partitions (full and partial height); agent distribution system, including agent storage containers, piping, and nozzles; type of pipe hangers and rigid pipe supports; detection, alarm, and control system, including all devices and schematic of wiring interconnection between them; end-of-line device locations; location of controlled devices such as dampers and shutters; and location of instructional signage
<input type="checkbox"/>	19	Isometric view of agent distribution system showing the length and diameter of each pipe segment; node reference numbers relating to the flow calculations; fittings, including reducers, strainers and orientation of tees; and nozzles, including size, orifice port configuration, flow rate, and equivalent orifice area
<input type="checkbox"/>	20	Scale drawing showing the layout of the annunciator panel graphics if required by the authority having jurisdiction
<input type="checkbox"/>	21	Details of each unique rigid pipe support configuration showing method of securement of the pipe and to the building structure
<input type="checkbox"/>	22	Details of the method of container securement showing the method of securement to the container and to the building structure

<input type="checkbox"/>	23	Complete step-by-step description of the system sequence of operations including functioning of abort and maintenance switches, delay timers, and emergency power shutdown
<input type="checkbox"/>	24	Point-to-point wiring schematic diagrams showing all circuit connections to the system control panel and graphic annunciator panel
<input type="checkbox"/>	25	Point-to-point wiring schematic diagrams showing all circuit connections to external or add-on relays
<input type="checkbox"/>	26	Complete calculations to determine enclosure volume, quantity of clean agent, and size of backup batteries; method used to determine number and location of audible and visual indicating devices; and number and location of detectors
<input type="checkbox"/>	27	Details of any special features
<input type="checkbox"/>	28	Pressure relief vent area, or equivalent leakage area, for the protected enclosure to prevent development, during system discharge, of a pressure difference across the enclosure boundaries that exceeds a specified enclosure pressure limit
<input type="checkbox"/>	29	California State Fire Marshal listing certificates - all fire alarm components
<input type="checkbox"/>	30	Warning and instructions signs shall be noted on the plans, located at entrances to and inside of protected areas. The safety sign format, color and the letter style shall be in accordance with ANSI Z535.

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Reviewed by: Paul C. Moffat, CET
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