

Special Hazard Systems

Last Issue Date: 21/06/2017		Type Of Service				
Activity		A	B	C	D	E
1	Perform routine service in accordance with relevant sections of F16 & F31 as applicable.		Y	Y	Y	Y
2	Check that all warning signs are readily visible and legible.		Y	Y	Y	Y
3	Check the storage container is accessible, adequately illuminated, ventilated and secured against unauthorised entry.		Y	Y	Y	Y
4	Storage containers: a) Check that all containers are secure, accessible, free from damage and mounted to allow free passage of air around the base. b) Check each container pressure indicator and verify that any loss in pressure is not greater than 10% of the nominal charge pressure. Where there is no container pressure indicator, check that the system discharge indicator has not operated.		Y	Y	Y	Y
5	Mechanical release devices: a) Check that all release anti-tamper seals/pull pins are in place and secure. b) Check that all release mechanisms, including gas container valves, actuators and drop weights, are undamaged, accessible and unimpeded.		Y	Y	Y	Y
6	Check that the lock-off valve is correctly labelled and accessible.		Y	Y	Y	Y
7	Check the protected area risk has not changed.		Y	Y	Y	Y
8	AEROSOL SYSTEMS - ADDITIONAL ACTIVITIES a) Check that all aerosol generators have not been discharged and are secure. b) Check that all aerosol generator moisture seals are secure.		Y	Y	Y	Y
9	WATER MIST SYSTEMS - ADDITIONAL ACTIVITIES a) Pressure regulator - Check for damage and correct setting. b) Pumps and water supplies - Check in accordance with the requirements of fire pumpsets (F38). c) Pumps and associated equipment - Test operational function of pumps and associated equipment in accordance with the requirements fire pumpsets (F38). d) Air compressor - Where receivers form part of a water mist system, test compressor cut-in/ cut-out pressures.		Y	Y	Y	Y
10	Check all mechanical and pneumatic detection devices for any condition that is likely to adversely affect their function.			Y	Y	Y
11	Test operation of automatic mechanical detection systems and confirm the alarm activates the warning system and is capable of initiating suppression system discharge.			Y	Y	Y
12	Check the integrity of all pneumatic piping and fittings.			Y	Y	Y
13	Test to ensure correct operation of all pneumatic controls.			Y	Y	Y
14	Test operation of all manual release systems.			Y	Y	Y
15	Check that all pipework, flexible connections and manifolds are free from damage and adequately secured.			Y	Y	Y

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16	Check that all discharge nozzles (including aerosol generators) are clear and unobstructed, correctly aimed and secured.			Y	Y	Y
17	Test operation of the system lock-off valve and confirm system inoperative visual warning device operates.			Y	Y	Y
18	Check that the discharge from all pressure-relief devices and vent valves does not create a hazard to personnel.			Y	Y	Y
19	Check that all directional valves and check valves are correctly orientated.			Y	Y	Y
20	Storage container contents - Confirm by weighing, or using liquid level determination, that each storage container is correctly charged, that is, any mass loss is not greater than 5% of the nominal charge mass in the case of hydrocarbons, and not greater than 10% of the nominal charge mass in the case of carbon dioxide, water and nitrogen.			Y	Y	Y
21	WATER MIST SYSTEMS - ADDITIONAL ACTIVITIES a) Test cycling system through a complete discharge cycle. b) Perform routine pump service, refer to F38. c) Perform routine service of water valves (release/isolating and control), refer to F28.			Y	Y	Y
22	Check if 10 year pressure test inspection is due, record last test date.				Y	Y
23	Check operation of mechanical actuator and lubricate as necessary.				Y	Y
24	Check operation of the mechanical release system and lubricate as necessary.				Y	Y
25	Check operation of the detection system (mechanical), lubricate or replace if it has reached its listed service life.				Y	Y
26	Check that all detection devices locations are compliant.				Y	Y
27	Check pyrotechnic actuator and replace if it has reached its listed service life.				Y	Y
28	Clean nozzles if contaminated.				Y	Y
29	Clean dampers if contaminated.				Y	Y
30	Check for any condition that could cause inadvertent discharge of the extinguishing agent.				Y	Y
31	Baseline data (where available) - Verify fuel class and type, enclosure volumes for total flooding systems, design concentration or application density and dimensions of projected objects (local application systems).				Y	Y
32	Total flooding gaseous systems - Check enclosure integrity test to ISO 14520.1 (or visually if not possible) for compliance.				Y	Y
33	Test pressure relief vent (if fitted).				Y	Y
34	Check areas adjacent to protected area that any leakage of extinguishing agent does not cause a hazard to personnel.				Y	Y
35	Test operation of automatically operated ventilation dampers.				Y	Y

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36	Test the operation of the post-discharge ventilation system.				Y	Y
37	Simulate a system operation and check operation of directional valves.				Y	Y
38	System interface test - refer to F39.				Y	Y
39	AEROSOL SYSTEMS - ADDITIONAL ACTIVITIES Replace any aerosol generator that has reached its service life.				Y	Y
40	WATER MIST SYSTEMS - ADDITIONAL ACTIVITIES (a) Conduct a full flow test to verify pressure and flow of water supply. (b) Test concentration of additives in the water, where used. (c) Check and clean line strainers. (d) Drain and check internal condition of water storage container, clean if required.				Y	Y
41	Test for free and unobstructed flow from each nozzle using a continuous flow of nitrogen or suitable alternative.					Y
42	Gas storage container (transportable type) - Hydrostatically pressure test cylinders to AS 2030.1.					Y
43	Gas storage container (engineered ones) - Internally inspect to AS 3788.					Y
44	Record results in log book.		Y	Y	Y	Y

Special Comments and Technical Data

B SERVICE MONTHLY
 C SERVICE 6 MONTHLY
 D SERVICE ANNUAL
 E SERVICE EVERY 10 YEARS
 REFER TO F16 OR F31 AS APPLICABLE FOR THE ELECTRICAL
 DETECTION AND CONTROL SYSTEM.
 THIS IS A GENERAL TDS, F32 OR F44 MAY BE MORE
 SUITABLE FOR SPECIFIC SITUATIONS.

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