

Fire Detection and Alarm Systems

Last Issue Date: 17/08/2017		Type Of Service				
Activity		A	B	C	D	E
1	EXTERNAL ALARM: a) Inspect the external alarm (bell or strobe light) to ensure it clearly indicates the designated building entry point. b) Check the legibility of the external alarm label and that the characters of the word 'FIRE' are not less than 25 mm in height.		Y	Y	Y	Y
2	CONTROL AND INDICATING EQUIPMENT (CIE): Inspect the following as applicable: Fire indicator panel (FIP), sub-indicator panel (SIP), repeater panel, fire brigade panel (FBP), mimic panel, fire fan control panel (FFCP) and: (a) ensure that they are clearly visible, readily accessible and free from dust and contaminants; and (b) where a panel is obscured by a door, check that the door is correctly labelled. NOTE: Where manual call points use replaceable frangible elements, ensure that at least one replacement element and tool are available for replacing the element where required.		Y	Y	Y	Y
3	BATTERY ENCLOSURE: Where vented batteries are used, inspect the battery enclosure for evidence of corrosion.		Y	Y	Y	Y
4	FIRE ALARM: a) Simulate an alarm condition and confirm that all required common or general visual and audible indications operate and the external alarm is activated. b) Where the system is monitored ensure the alarm has activated the alarm signalling equipment. c) Where CIE is a sub-indicator panel, confirm that the alarm condition is indicated at the FIP.		Y	Y	Y	Y
5	OCCUPANT WARNING SYSTEM: Simulate an alarm and confirm the alarm initiates the occupant warning system including any visual warning devices (VWD).		Y	Y	Y	Y
6	ISOLATE/DISABLE CONDITION: Initiate an isolate/disable condition at the FIP and confirm that all required common or general visual and audible indications operate. Where the system is monitored, ensure the isolate is received by the monitoring service provider alarm signalling equipment. Where the panel is an SIP, confirm that the isolate/disable condition is indicated at the FIP as either a fault or isolate/disable.		Y	Y	Y	Y
7	FILAMENT TYPE VISUAL INDICATOR: Test the operation of each indicator.		Y	Y	Y	Y
8	ZONE BLOCK PLANS: Inspect the plans to ensure they are securely mounted, legible and supplementary zone drawings, where required, are available and legible.		Y	Y	Y	Y
9	NOTE FOR THE 6 MONTHLY TESTS (Activities 9 -17): Take precautions to prevent the discharge of the system during these tests.			Y	Y	Y

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10	<p>LOCAL CONTROL STATION (LCS):</p> <p>(a) Ensure that they are clearly visible, readily accessible and free from dust and contaminants.</p> <p>(b) Check that the door is correctly labelled.</p>			Y	Y	Y
11	<p>VISUAL WARNING DEVICES:</p> <p>Inspect all visual warning devices for any condition or damage that is likely to adversely affect their function, these include:</p> <p>* DO NOT ENTER</p> <p>* EVACUATE</p> <p>* FIRE ALARM</p> <p>* SYSTEM INOPERATIVE</p>			Y	Y	Y
12	<p>LCS DISCHARGE INHIBIT SWITCH:</p> <p>Test the operation of each inhibit or auto/manual switch and confirm:</p> <p>(a) It prevents the automatic discharge of suppression system.</p> <p>(b) Stops and resets the normal system discharge sequence.</p> <p>(c) Causes the illumination of a visual indicator at the LCS and the system FIP.</p> <p>(d) Causes an audible indication.</p> <p>(e) Does not override the operation of the manual discharge switch.</p>			Y	Y	Y
13	<p>LCS MANUAL INITIATE SWITCH:</p> <p>Test the operation of the manual initiate switch and confirm:</p> <p>a) a normal system discharge sequence, including fire and evacuation alarms, time delays equipment shutdowns; and</p> <p>b) that it overrides the LCS discharge inhibit switch.</p>			Y	Y	Y
14	<p>SYSTEM INOPERATIVE VISUAL WARNING DEVICE (VWD):</p> <p>Confirm the system inoperative VWD operates for:</p> <p>(a) Operation of a service switch (discharge initiating circuit electrical isolation).</p> <p>(b) Fault in the discharge actuator circuit.</p> <p>(c) Operation of a lock-off valve (where fitted).</p> <p>(d) Operation of a manual inhibit switch (where fitted).</p> <p>(e) Isolation or fault in any part of the fire detection or control system that prevents the automatic or electrical manual discharge of the suppression system.</p>			Y	Y	Y
15	<p>SYSTEM OPERATION AND LOGIC:</p> <p>Test the system logic (e.g. dual detector operation or dependency on more than one alarm) and confirm the operation of:</p> <p>a) VWDs;</p> <p>b) audible alarms;</p> <p>c) directional valve signal/output;</p> <p>d) equipment fire mode signal/output;</p> <p>e) HVAC fire mode signal/output;</p> <p>f) system discharge actuator;</p> <p>g) door and damper release; and</p> <p>h) ancillary controls.</p>			Y	Y	Y

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16	ACTUATOR CIRCUIT: Test each supervised circuit to ensure a fault is registered at the FIP.			Y	Y	Y
17	ACTUATOR: a) Test the function of each actuator and ensure that each actuator operates correctly. b) Ensure that each actuator has been mechanically isolated or temporarily removed from the suppressant supply to prevent unintended discharge. c) For non-resettable actuators (e.g. pyrotechnic types) substitute the actuator with a load of equivalent value and confirm the operating current is as required.			Y	Y	Y
18	MANUAL CALL POINTS: a) Check they are all free of conditions likely to adversely affect their function; and b) Test the operation of each manual call point.				Y	Y
19	OTHER WARNING DEVICES: Where other devices are used as the alarm-indicating devices, inspect all devices to ensure they are in place.				Y	Y
20	PANEL SWITCHES AND KEYPADS: Test the operation of each control.				Y	Y
21	VISUAL INDICATORS: Test the operation of each indicator and alphanumeric displays.				Y	Y
22	BATTERY - In accordance with AS1851 Appendix F: a) Measure system quiescent, record Iq. b) Measure maximum alarm currents, record Ia. c) Calculate the required battery capacity, record Ah. d) Check the nominal capacity of the battery is not less than the required capacity, record Ah.				Y	Y
23	FIRE DETECTORS: a) Test detectors as specified in AS1851 Appendix G and confirm correct alarm zone indication; and b) Where the detectors are used as part of special hazards systems all the detectors shall be functionally tested yearly.				Y	Y
24	AUDIBILITY: Test the occupant warning system and check the signals are distinctly audible in all areas of the building. NOTE: 1/ In order to reduce the disturbance to occupants an acceptable means of conducting this test is to provide an audio signal other than the warning signal at a reduced sound pressure level.				Y	Y

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	2/ Where the FIP is connected to sound systems and intercom systems for emergency purposes (AS 1670.4) or EWIS (AS 2220.2) test in accordance with AS1851 Table 6.4.3.2: Emergency Warning System and Table 6.4.4.1: Emergency Intercom Systems. (See activities 33 - 50).					
25	<p>OCCUPANT WARNING SYSTEM SOUND PRESSURE LEVEL: Measure and record the sound pressure level (SPL) from at least one reference point for each amplifier used and ensure at each reference point the measured value is consistent with the required sound pressure level at each reference point. Record the:</p> <ul style="list-style-type: none"> - location of the reference points: - required SPL dBA. - measured SPL dBA. 				Y	Y
26	<p>ALARM ACKNOWLEDGEMENT FACILITY: a) Test not less than 20% of installed alarm acknowledgement facilities in such a manner that over a 5-year period, all facilities are tested; and b) Check the alarm acknowledgement facility functions as required.</p>				Y	Y
27	<p>ALARM INVESTIGATION FACILITY: Test the facility if enabled and check it functions as required.</p>				Y	Y
28	<p>BATTERY CONDITION: a) When the battery has not been replaced in the previous two years, verify the condition by carrying out a discharge test in accordance with AS1851 Appendix F. b) Record the: - Date last replaced or; - Test load current A. - Final test voltage V.</p>				Y	Y
29	<p>SMOKE ALARMS AND HEAT ALARMS: Refer to TDS F33 or F33A and AS1851 Clause 6.4.2 for information.</p>				Y	Y
30	<p>COMPONENTS WITH A FIXED SERVICE LIFE: Inspect detectors, equipment and other items having a defined service life and report where this is exceeded or will be exceeded before the next scheduled service.</p>				Y	Y
31	<p>SURVEY OF PROTECTED AREAS: Survey all areas of the building from floor level and check: (a) that the fire detection and alarm system has not been altered, damaged or compromised; (b) detection device and remote indicators are appropriate for the current use; (c) for any condition that may cause a nuisance alarm or the unintentional operation of a suppression system;</p>				Y	Y

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	(d) all exposed cabling, conduits, junction boxes and the like for any condition that may impact on the performance of the system and are labelled correctly; and (e) all CIE to ensure all components are appropriately mounted and secure.					
32	INTERFACED SYSTEM INITIATION: Simulate alarm(s) to verify that each interface transmission path initiates the corresponding interfaced system(s) as required.				Y	Y
33	EMERGENCY WARNING SYSTEM (Activities 33 - 50): NOTE: Activity 24 references this section. Where the FIP is connected to sound systems and intercom systems for emergency purposes undertake the following:				Y	Y
34	EMERGENCY CALL POINTS: a) Inspect all call points for any condition that is likely to adversely affect their operation; and b) Test the operation of each call point.				Y	Y
35	VISUAL WARNING DEVICES (VWDs): a) Where VWDs are used as the alarm-indicating devices, inspect all devices for any condition or damage that is likely to adversely affect their operation and ensure that they are clearly and correctly labelled where labelling is required; and b) Test the operation of each visual warning device.				Y	Y
36	OTHER WARNING DEVICES: a) Where other warning devices are used as alarm indicating devices, inspect all devices to ensure that they are in place and they are clearly and correctly labelled where labelling is required; and b) Test for correct operation.				Y	Y
37	AS-INSTALLED DRAWINGS: Inspect the drawings to ensure the plans are legible and current.				Y	Y
38	WARNING SYSTEM INITIATION: Simulate an alarm condition via the fire system with the warning system in automatic mode.				Y	Y
39	FAULT: Simulate a speaker circuit fault, emergency call point circuit fault and visual warning device circuit fault for each circuit and confirm the fault condition is indicated at the emergency warning panel (EWP), FIP and any corresponding SIP.				Y	Y
40	AURAL INDICATORS: Test or confirm the operation of the aural indicators as required.				Y	Y
41	PANEL SWITCHES AND KEYPADS: Test the operation of each control.				Y	Y
42	FAULT: Simulate a fault between the fire system and the warning system and confirm the fault				Y	Y

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	condition is indicated at the EWP and the FIP.					
43	VISUAL INDICATORS: Test the operation of each visual indicator and alphanumeric displays.				Y	Y
44	BATTERY - In accordance with AS1851 Appendix F: a) Measure system quiescent, record Iq. b) Measure maximum alarm currents, record Ia. c) Calculate the required battery capacity, record Ah. d) Check the nominal capacity of the battery is not less than the required capacity, record Ah.				Y	Y
45	ANCILLARY CONTROLS: Test the operation of ancillary control functions and ensure that each controlled device can be correctly initiated.				Y	Y
46	AUDIBILITY TEST: Test the Emergency warning system and check the signals are distinctly audible in all areas of the building. NOTE: In order to reduce the disturbance to occupants an acceptable means of conducting this test is to provide an audio signal other than the warning signal at a reduced sound pressure level.				Y	Y
47	OVERRIDE TEST: Confirm that the alarm signal overrides non-emergency audible signals.				Y	Y
48	INTERFACE AND CONTROL TEST: Conduct a functional system test with other interfaced fire systems (see AS1851 Appendix D) and check the interface functions as required.				Y	Y
49	BATTERY CONDITION: When the battery has not been replaced in the previous two years, verify the condition by carrying out a battery discharge test in accordance with AS1851 Appendix F. Record the: - date last replaced or; - test load current A. - final test voltage V.				Y	Y
50	BUILDING AREAS SURVEY INSPECTION: a) ensure that no structural changes may affect evacuation zones. b) ensure that changes to the occupancy are not likely to affect the required				Y	Y

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	performance of the system.					
51	EMERGENCY INTERCOM SYSTEMS (Activities 51 - 66): NOTE: Activity 24 references this section.				Y	Y
52	EMERGENCY INTERCOM EQUIPMENT: a) Inspect the intercom panel to ensure that it is clearly visible, readily accessible and free from dust and contaminants. b) Where the panel is obscured by a door, check that the door is correctly labelled.				Y	Y
53	VISUAL INDICATORS: Test the operation of visual indicators and alphanumeric displays.				Y	Y
54	AURAL INDICATORS: Test the operation of the aural indicators.				Y	Y
55	PANEL SWITCHES AND KEYPADS: Test the operation of each required control (e.g. secondary emergency control panels).				Y	Y
56	FAULT: Simulate a WIP circuit fault condition and confirm the fault condition is indicated at the intercom panel.				Y	Y
57	RESET: Test the operation of the reset function.				Y	Y
58	WARDEN INDICATOR AND CONTROLS: Check the operation of each warden indicator and controls.				Y	Y
59	WARDEN INTERCOM POINTS (WIPs): Inspect all WIPs to ensure: a) they are clearly visible and readily accessible; b) where the WIP is obscured by a door, check that the door is correctly labelled; and c) there is no mechanical damage.				Y	Y
60	WIPs FUNCTION TESTING: 1/ Outgoing WIPs test: Initiate a call from each WIP and confirm that each WIP is indicating correctly and that clear communication is possible with the intercom panel operator. 2/ Incoming WIPs test: Initiate a call to each WIP and phone and confirm that each WIP is indicating correctly and that clear communication is possible with the intercom panel operator. 3/ WIPs all call address test: Select the all-call address function and check that the visual indicator for all WIP phones activate. Check that the address is heard at all WIP phones. (NOTE: This test may be carried out in conjunction with a practice evacuation or ECO training).				Y	Y
61	STAND-ALONE INTERCOM SYSTEM BATTERY ENCLOSURE:				Y	Y

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Activity						
	Where vented batteries are used, inspect the battery enclosure for evidence of corrosion.					
62	<p>STAND-ALONE INTERCOM SYSTEM BATTERY: In accordance with AS1851 Appendix F:</p> <p>a) Measure system quiescent, record Iq.</p> <p>b) Measure maximum alarm currents, record Ia.</p> <p>c) Calculate the required battery capacity, record Ah.</p> <p>d) Check the nominal capacity of the battery is not less than the required capacity, record Ah.</p>				Y	Y
63	<p>SYSTEM INTERFACE: Conduct a functional test with any interfaced systems (see AS1851 Appendix D).</p>				Y	Y
64	<p>STAND-ALONE INTERCOM SYSTEM BATTERY CONDITION: When the battery has not been replaced in the previous two years, verify the condition by carrying out a battery discharge test in accordance with AS1851 Appendix F. Record the:</p> <p>- date last replaced or;</p> <p>- test load current A.</p> <p>- final test voltage V.</p>				Y	Y
65	<p>SURVEY OF BUILDING:</p> <p>a) Inspect the building to ensure that no structural changes have occurred to change zones.</p> <p>b) Inspect the building to ensure that no changes to occupancy have affected the required audibility of the warden call signal at the WIP.</p>				Y	Y
66	<p>WIP LOCATIONS: Inspect all evacuation zones to ensure at least one WIP is installed where required.</p>				Y	Y
67	<p>SMOKE HAZARD MANAGEMENT SYSTEMS - ADDITIONAL (Activities 67 - 72): NOTE: Precaution is needed to prevent unacceptable ventilation system changes.</p>				Y	Y
68	<p>FFCP LATCHING AND RESET: Check that after initiation by a signal from the FIP, the FFCP remains operating in the fire mode until reset by the reset switch on the FFCP.</p>				Y	Y
69	<p>MANUAL OVERRIDE CONTROLS: Check that manual override ON-AUTO-OFF control operates. NOTE: Manual override should function in normal mode and fire mode.</p>				Y	Y

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70	FAULT INDICATORS: Check the operation of the: a) Airflow fault indicator. b) Air-handling equipment interconnecting cable open-circuit fault indicator. c) Air-handling equipment interconnecting cable closed-circuit fault indicator.				Y	Y
71	ELECTRICAL: Check the operation of the electricity phase-fail fault indicator.				Y	Y
72	FAN INDICATOR: a) Check the operation of the fan-running indicator; b) Check the operation of the fan-stopped indicator; and c) Check the operation of the fan-fault indicator.				Y	Y
73	SPECIAL HAZARD SYSTEMS - ADDITIONAL (Activities 73 - 77): NOTE: Take precautions to prevent the discharge of the system during these tests.				Y	Y
74	STATUS MONITORING: a) Test each suppression system status monitored function (e.g. container level, pressure switches, pump controllers, isolation valves); and b) Check each monitored function indicates at the suppression system control panel.				Y	Y
75	SUPPRESSION SYSTEM DIRECTIONAL VALVES: Simulate the system operation and confirm that each electrical directional valve operates as required.				Y	Y
76	DISCHARGE TIME DELAY: Test and record the system discharge sequence and confirm the time delay period is as required.				Y	Y
77	AGENT RELEASE INDICATION: a) Test the agent release detection device (e.g. pressure switch); and b) Confirm the operation of the agent release is indicated at the FIP.				Y	Y
78	SUPERVISED CIRCUITS: Test each input and output supervised circuit for any condition that prevents the transmission of the required signal and ensure a fault is registered at the FIP.					Y
79	FAULT: a) Simulate a circuit fault condition at the FIP and confirm that all required common or general visual and audible indications operate. b) Where such faults are monitored, ensure the fault has activated the alarm signalling equipment. c) Where the panel is an SIP confirm that the fault condition is indicated at the FIP.					Y
80	ADDRESSABLE SHORT CIRCUIT ISOLATORS: Apply short circuits as required to verify that the short circuit isolation functions as required.					Y
81	POWER SUPPLY SUPERVISION:					Y

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	a) Where the system is monitored, reduce the CIE operating voltage to trigger a power supply supervision fault and confirm that it is received by the monitoring service provider. b) Where the panel is an SIP or a distributed power supply, confirm that the power supply supervision fault condition is indicated at least as a fault at the FIP.					
82	COLLECTIVE DETECTION CIRCUITS: For each collective fire detection circuit, remove the last detector or device on the circuit and confirm a fault signal is registered at the CIE.					Y
83	INTERFACE AND CONTROL TEST: Conduct a functional test with each system's interface and verify that each interfaced system responds to the signal as required (see AS1851 Appendix D).					Y
84	OCCUPANT WARNING SYSTEM SPEAKER CIRCUITS: Measure and record the impedance of each loud speaker circuit and check that it has not changed by more than 15% from the last test nor exceeded the rated output as required for the amplifier. Required Ohms. Impedance per circuit Ohms.					Y
85	MONITORING CONNECTION: Where the system is monitored, test that the loss of each of the monitoring links is indicated at the monitored site.					Y
86	ALARM VERIFICATION FACILITY: Test one detector of each type per circuit with alarm verification facility enabled to check that it functions as required.					Y

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Special Comments and Technical Data

B SERVICE MONTHLY
C SERVICE 6 MONTHLY
D SERVICE ANNUALLY
E SERVICE 5 YEARLY

SERVICING ACTIVITIES & FREQUENCIES MAY VARY DEPENDING ON THE MANUFACTURER'S RECOMMENDATIONS & SITE CONDITIONS.

TESTING & SERVICING TO BE DONE IN ACCORDANCE WITH AS1851, SECTION 6 & REFERENCED APPENDICES), AS1670.4 & AS2220.2.

OBTAIN SITE APPROVAL PRIOR TO TESTING THE SYSTEMS.

NOTIFY THE MONITORING SERVICE PROVIDER WHERE TESTING OR SERVICING MAY CAUSE SIGNALS TO BE TRANSMITTED.

ON COMPLETION OF ANY TESTING OR SERVICE, RETURN ALL CONTROLS TO THEIR PRIOR STATE, WHEN ANY FUNCTION IS LEFT IMPAIRED, DISABLED OR IS NOT RESTORED TO `NORMAL', RECORD THIS IN THE LOG BOOK & NOTIFY THE SITE REPRESENTATIVE & THE FACILITY MANAGER.

FOR TDS'S COVERING SPECIFIC SYSTEMS OR REQUIREMENTS REFER:

F19 EMERGENCY WARNING / INTERCOM SYSTEMS;

F31 VERY EARLY SMOKE DETECTION SYSTEMS;

F33 SMOKE / HEAT ALARM - SELF-CONTAINED, NON-MONITORED TYPE;

F33A SMOKE / HEAT ALARM - SELF-CONTAINED, MONITORED TYPE;

F39 INTERCONNECTION OF FIRE PROTECTION SYSTEMS;

F49 SPECIAL HAZARD SYSTEMS; &

F36 MONITORING OF FIRE ALARMS.

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2. If you rely on the information in a TDS you are responsible for ensuring, by independent verification, its accuracy, currency and completeness. DPTI cannot guarantee that the information contained in a TDS meets the standards or requirements of legislative requirements.
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4. You must apply appropriate risk management principles and carry out all tasks in accordance with obligations under the [Work Health and Safety Act 2012](#).
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