

STANDARDS AUSTRALIA

Amendment No. 2
to
AS 1851—2005
Maintenance of fire protection systems and equipment

CORRECTION

The 2005 edition of AS 1851 is amended as follows; the amendment(s) should be inserted in the appropriate place(s).

SUMMARY: This Amendment applies to the inside front cover, the title page, the Preface table, Clauses 1.5.3, 1.5.14 (new), 1.5.15 (new), 1.5.16 (new), 1.9, 1.15.2, 1.15.5, 1.16 (new), 2.2.1.1, 2.2.1.3, 3.2.1, 17.4.3.1, 18.2.2, 18.2.3 and 19.4.1(a) and Tables 1.11(B), 1.15, 2.4.1.1, 2.4.1.2, 2.4.1.3, 2.4.2.1, 2.4.2.2, 2.4.2.3, 3.4.2.1, 4.4.1, 4.4.2, 4.4.3, 6.4.1, 6.4.2, 7.4.1, 7.4.2, 9.4.1, 9.4.2, 10.4.1, 10.4.2, 11.4.1, 11.4.2, 15.4.1, 15.4.2, 18.4.1.5, 18.4.2.2, 18.4.2.3, 19.4.1 and 19.4.2 and Appendix C.

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Inside front cover
Add Committee designation ‘ME-062 Ventilation and Airconditioning’ to the list of FP-001 nominating organizations.

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Title page
Delete ‘AS 1851.1—1981’ and *replace* with ‘AS CA 15—1961, AS 1851—1976’.

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Preface Table

Clause 1.9

Add a new third paragraph and an example as follows:

‘The interface diagram required in Clause 1.12 and, in the case of sprinkler and hydrant systems, the pressure gauge schedule required in Tables 2.4.1.2 and 4.4.2, shall be prepared and displayed as part of the maintenance activity. Other system elements or components that were not required as part of the design at the time of the original installation need not be retrofitted and the related maintenance activity shall not be considered a defect if not performed.

Example: A system installed to CA 16 is required to have a pressure gauge schedule and interface diagram fitted, but does not require the retrospective fitting of flow test equipment to be in accordance with this Standard.’

Table 1.11(B)

Column 2 (Tolerance), row two (Weekly), *delete* ‘3 working days’ and *replace* with ‘2 working days’.

Table 1.15

Column 5 (Logbooks), row 17 (Section 18) *delete* ‘18.2.6’ and *replace* with ‘18.2.5.4’.

Clause 1.15.2

Add the following note at the end of the clause:

NOTE: It is recommended that maintenance records be retained for a minimum period of seven years.

(b) Data within the sprinkler or hydrant pressure gauge schedule may be established and displayed as each activity is undertaken such that at the end of the year's activities, the pressure gauge schedule would be finalised.

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Clause 2.2.1.1

Delete second paragraph, including Items (a) to (d) and Commentary and *replace* with the following:

Weekly inspection and testing may be omitted, provided the following conditions are met:

- (a) The main stop valve is Class B monitored at the building CIE or in accordance with AS 2118.1. Where the control assemblies are located in a locked cabinet, locked cage, or within a locked room that is used for no other purpose, or where building and site security provisions provide the same level of controlled access, this requirement is considered to have been met.

Alternatively, where the control assemblies form part of a combined sprinkler and hydrant system and are located in fire-isolated stairwells this requirement is also considered to have been met.

- (b) Water supply valves, except underground key-operated valves, are secured in the open position, with the main stop valve strapped and padlocked and all other valves chained and padlocked.
- (c) Where required to minimize unwanted alarms, systems incorporate an automatic installation jacking pump or retard chamber, whichever is appropriate.

NOTE: Fire Protection Industry padlocks and keyed locksets are considered satisfactory for valve and enclosure locks.

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Clause 2.2.1.3

Delete the text of this Clause and *replace* with the following:

Inspection and test of compression ignition engine driven pumpsets shall comply with Clauses 3.4.1 to 3.4.3.

Weekly inspection and test may be omitted, provided pumpset systems comply with AS 2941—2002 or incorporate the following:

- (a) Starting battery(s) complying with AS 4029.2, AS 4029.3 or AS 3731.1 and AS 3731.2.
- (b) Starting battery charging circuit monitoring incorporating local aural and visual alarms at the pump controller.

(c) If a fault has occurred, the system shall be able to be reset without the need for a qualified person to be present.

Table 2.4.1.1

- 1 Item 1.11(a):
 - (a) *Delete* the text in column 3 and *replace* with the following:
‘INSPECT externally and, to the extent practicable, internally for structural integrity, freedom from corrosion, liner detachment and acceptable condition of roof, hatches and ladders.
 - (b) *Delete* the ticks from the weekly, monthly and six-monthly frequency columns.
- 2 *Delete* Item 1.11(b).
- 3 Item 1.12, *delete* the second paragraph in column 3.

Table 2.4.1.2

- 1 Item 2.2(a), *delete* the last sentence in column 3 and *replace* with the following:
‘The period between testing of all control assemblies is not to exceed 3 months.’
- 2 Item 2.2(d), *delete* the last sentence in column 3 and *replace* with the following:
‘The period between testing of all devices is not to exceed 3 months.’
- 3 *Insert* the following text in column 3 after Item 2.7(c):
‘Where more than 12 water supply stop valves are distributed throughout a high-rise building, forming part of a combined sprinkler/hydrant system, the actions under Items (a) (b) and (c) above may be conducted on a rotating basis. The period between testing of all water supply stop valves is not to exceed 3 months.’
- 4 *Delete* Item 2.8 and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.8	Water supply tanks— Atmospheric	VERIFY automatic inflow valves(s) and water level indicators are operating correctly by exercising the valves and indicators. CONFIRM that indicators are reading correctly.			✓	✓	✓	—	.....

- 5 *Insert* the following text in Column 3 after Item 2.17 (a)
 - (i) Discharge water through the flow measuring device at the flow corresponding to the hydraulically most favourable duty flow. Record the flowing pressure.
 - (ii) Reduce the water flow through the flow measuring device to that corresponding to the most unfavourable duty point. Record the flowing pressure.
 - (iii) Shut off water flow to flow measuring device. Record static pressure.
- 6 *Insert* a new note (NOTE 2) after Item 2.17 (c) as follows:
‘2 Where booster pumpsets are fitted, the water supply flow test should be performed combined with the pumpset load test requirements in Section 3.’
Renummer the existing note as NOTE 1.
- 7 *Delete* ‘AS 2118.10’ in Item 2.17 (c) and *replace* with ‘AS 2118.1’.

Table 2.4.1.3

- 1 *Add* a new Item 3.20(A) as follows:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records	
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Task completed Yes/No	Comments
3.20(A)	Water supply tanks—Pressure	Conduct a six-yearly inspection by a qualified pressure vessel inspector.	See action column for frequency					.....

- 2 Item 3.21, *delete* dividing line after Items (a), (b) and (c), and *insert* a line after Item (d).

Table 2.4.2.1

- 1 Item 1.10(a):
- (a) *Delete* the text in column 3 and *replace* with the following:
- ‘Inspect externally and, to the extent practicable, internally for structural integrity, freedom from corrosion, liner detachment and acceptable condition of roof, hatches and ladders.’
- (b) *Delete* the ticks from the weekly, monthly and six-monthly frequency columns.
- 2 *Delete* Item 1.10(b).
- 3 Item 1.11, *delete* the second paragraph in column 3.

Table 2.4.2.2

- 1 Item 2.2(d), *delete* the last sentence in column 3 and *replace* with the following:
- ‘The period between testing of all devices is not to exceed 3 months.’
- 2 Item 2.6, *insert* the following text in column 3 following Item (c):
- ‘Where more than 12 water supply stop valves are distributed throughout a high-rise building, forming part of a combined sprinkler/hydrant system, the actions under (a) (b) and (c) above may be conducted on a rotating basis. The period between testing of all water supply stop valves is not to exceed 3 months’.
- 3 *Replace* Item 2.7 with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.7	Water supply tanks—Atmospheric	VERIFY automatic inflow valves(s) and water level indicators are operating correctly by exercising the valves and indicators. CONFIRM that indicators are reading correctly.			✓	✓	✓	—	.....

Table 2.4.2.3

1 *Add* a new Item 3.14(A) as follows:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records	
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Task completed Yes/No	Comments
3.14(A)	Water supply tanks—Pressure	CONDUCT a six-yearly inspection by a qualified pressure vessel inspector						.....

2 Item 3.15, *delete* dividing line between Items (a) and (b), and *insert* a line at the end of Item (b).

Clause 3.2.1

Delete Items (a) to (c) and *replace* with the following:

- (a) Starting battery(ies) complying with AS 4029.2, AS 4029.3 or AS 3731.1 and AS 3731.2.
- (b) Starting battery charging circuit monitoring incorporating local aural and visual alarms at the pump controller.
- (c) Low fuel level monitoring incorporating local aural and visual alarms at the pump controller.

NOTE: The full tank low level fuel alarm may be fitted to a modified fuel filler cap.

Table 3.4.2.1, Item 2.12

Delete Item 2.12 and replace with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.12	Compression ignition (diesel) driven pumpset—Sprinklers load test	<p>(a) With the pump room door closed and the pump testing technician present:</p> <p>(i) Run the pumpset at shut-off (zero flow) for 10 min to allow all equipment to attain normal operating temperature</p> <p>(ii) Run the pumpset at the most hydraulically favourable duty point for 10 min and record the results</p> <p>(iii) Reduce the flow to the most hydraulically unfavourable duty point for sufficient time to record the water supply proving test results</p> <p>(iv) Further reduce the flow until shut-off (zero flow) is achieved and continue to run the pumpset until total run time has reached 30 min</p> <p>During this period RECORD the following for Items (ii), (iii) and (iv) above:</p> <p>(A) Suction pressures</p> <p>(B) Discharge pressure</p> <p>(C) Engine running temperature</p> <p>(D) Engine oil pressure</p> <p>(E) Air temperature at the engine intake manifold</p> <p>(F) Engine rpm, using both installed tachometer and calibrated tachometer. Record variation</p> <p>While carrying out the above procedures, CHECK temperature of bearings and stuffing box leakage and note and report any abnormality</p> <p>NOTE: If the pump room temperature rises more than 10°C above ambient temperature, this could indicate inadequate ventilation and possible reduction in engine power.</p>				✓	✓	—	.....
								.....kPa	.....
								.....kPa	.....
								.....°C	.....
								.....kPa	.....
								.....°C	.....
								.....rpm	.....
								.....rpm variation		

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
		(b) SIMULATE an engine fail to start and ensure that engine-start cycling requirements and alarm activations are satisfied				✓	✓	—	.....
		(c) TEST correct operation of pump priming tanks and associated equipment, where fitted.				✓	✓	—	.....

Table 3.4.2.1. Item 2.12(A) (new)

Insert a new Item 2.12(A) as follows:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.12 (A)	Compression ignition (diesel) driven pumpset—Hydrants load test	<p>(a) With the pump room door closed and the pump testing technician present:</p> <p>(i) Run the pumpset at shut-off (zero flow) for 3 min to allow all equipment to attain normal operating temperature</p> <p>(ii) Run the pumpset at 130% of duty flow for 4 min and record the results</p> <p>(iii) Reduce the flow to duty flow for sufficient time to record the water supply proving test results</p> <p>(iv) Further reduce the flow until shut-off (zero flow) is achieved and continue to run the pumpset until total run time has reached 10 min</p> <p>During this period RECORD the following for Items (ii), (iii) and (iv) above:</p> <p>(A) Suction pressures</p> <p>(B) Discharge pressure</p> <p>(C) Engine running temperature</p> <p>(D) Engine oil pressure</p> <p>(E) Air temperature at the engine intake manifold</p> <p>(F) Engine rpm, using both installed tachometer and calibrated tachometer. Record variation</p>				✓	✓	—	
							kPa	
							kPa	
							°C	
							kPa	
							°C	
							rpm	
							rpm variation		

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Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
		While carrying out the above procedures, CHECK temperature of bearings and stuffing box leakage and note and report any abnormality NOTE: If the pump room temperature rises more than 10°C above ambient temperature, this could indicate inadequate ventilation and possible reduction in engine power.								
		(b) SIMULATE an engine fail to start and ensure that engine-start cycling requirements and alarm activations are satisfied				✓	✓	—	.....
		(c) TEST correct operation of pump priming tanks and associated equipment, where fitted.				✓	✓	—	.....

Table 3.4.2.1 Item 2.13(A) (new)

Add a new Item 2.13(A) as follows:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.13 (A)	Electric motor driven pumpset—Sprinklers and hydrants load test	<p>(a) With the pump room door closed and the pump testing technician present:</p> <p>(i) Run the pumpset at shut-off (zero flow) for 3 min</p> <p>(ii) Run the pumpset at the most hydraulically favourable duty point (for sprinklers) or 130% of duty flow (for hydrants) for 4 min and record the results</p> <p>(iii) Reduce the flow to the most hydraulically unfavourable duty point (for sprinklers) or duty flow (for hydrants) for sufficient time to record the water supply proving test results</p> <p>(iv) Further reduce the flow until shut-off (zero flow) is achieved and continue to run the pumpset until total run time has reached 10 min</p> <p>During this period RECORD the following for Items (ii), (iii) and (iv) above:</p> <p>(A) Suction pressures .....kPa</p> <p>(B) Discharge pressure .....kPa</p> <p>(C) Air temperature at the electric motor .....°C a</p> <p>(D) Motor rpm .....rpm</p> <p>(E) Volts (all three phases) .....V</p> <p>(F) Amps (all three phases) .....A</p> <p>While carrying out the above procedures, CHECK temperature of bearings and stuffing box leakage and note and report any abnormality</p>				✓	✓	—	.....
		(b) TEST correct operation of pump priming tanks and associated equipment, where fitted.				✓	✓	—	.....

Table 3.4.3, Item 3.9(a)

- 1 Column 2, *delete* 'Pump assembly' and *replace* with 'Pump glands'.
- 2 Column 3, *delete* text of column 3 and *replace* with the following:
'Disassemble pump and: (a) REPACK pump glands'

Delete the '✓' in the five year frequency column and *insert* in the yearly frequency column.
- 3 *Renumber* Items 3.11 to 3.13 to *read* 3.10 to 3.12.

Table 4.4.1

- 1 *Delete* the notes at the end of the table and *replace* with the following:
'See note to Clause 4.3.1'
- 2 Item 1.4, *delete* 'and block plan' from column 2.
- 3 Item 1.4(e), *delete* the text including the note from column 3 and *replace* with the following:
'For legible labelling indicating maximum system working pressure.'
- 4 *Delete* Item 1.11 and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
1.11	Pump-starting devices	(a) CHECK that all isolating valves to pump start pressure devices are in the open position.		✓	✓	✓	✓	—	.....
		(b) CHECK that pressure switches are securely mounted and are protected against the ingress of water, dust and insects.		✓	✓	✓	✓	—	.....

5 Delete Item 1.13 and 1.14 and *replace* with the following

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
1.13	Water supply tank— Atmospheric	(a) CHECK that tank is full and level indicator reads correctly.			✓	✓	✓	—	.....
		(b) CHECK fittings are compatible with the local fire authority's hard suction fittings.				✓	✓	—	.....
		(c) INSPECT externally and, to the extent practicable, internally for structural integrity, freedom from corrosion, liner detachment, and acceptable condition of roof, hatches and ladders. NOTE: Drainage is not required for annual inspection.				✓	✓	—	.....
1.14	Block plan and pressure gauge schedule (see Clause 1.9)	CHECK for legibility and appropriate location			✓	✓	✓	—	.....

Table 4.4.2

- 1 Item 2.4, *delete* the '✓' from column 5 (Result) and *replace* with a dash (—).
- 2 Item 2.7:
 - (a) Column 2, *add* 'where fitted' to the item description.
 - (b) Column 3, *add* 'or to the required design Standard' at the end of the sentence.
 - (c) Column 3, *add* the following note:
NOTE: Conduct the flow test after a satisfactory (pass) hydrostatic test.
- 3 *Delete* Items 2.8(b) and 2.8(c).
- 4 Item 2.8, column 3, *delete* item and *replace* with the following:
'Where a booster is fitted, CONDUCT a hydrostatic pressure test on the entire system at 1.5 times the system working pressure of the required design Standard.'

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5 Add a new Item 2.13 as follows

Item No.	Item	Action required & pass/fail requirement	Frequency					Records		
			Weekly*	Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.13	Water supply tanks— Atmospheric	(a) VERIFY automatic inflow valves(s) and water level indicators are operating correctly by exercising the valves and indicators. CONFIRM that indicators are reading correctly.			✓	✓	✓	—	.....
		(b) CHECK fittings are compatible with the local fire authority's hard suction fittings.				✓	✓	—	.....

Table 4.4.3

- 1 Item 3.4, *delete* text of Item 3.4. and *insert* '**No longer applicable**'.
- 2 Item 3.12(c), action column, *delete* '10 years' and *replace* with '12 years'.

Table 6.4.1

- 1 Item 1.1, *add* the following note:
'NOTE: INSPECT the CIE keypad or membrane for any condition including damage that is likely to adversely affect its operation.'
- 2 Item 1.2, *delete* 'local' from line one and *replace* with 'external'.
- 3 Item 1.6, *delete* the text in column 3 and *replace* with the following:
INSPECT all alarm sounders for any condition, including damage that is likely to adversely affect their function, and ensure that they are clearly and correctly labelled where labelling is required and where bells are used, inspect to ensure the bell label is legible with the word 'FIRE' in characters not less than 25 mm in height.
- 4 Item 1.7, *delete* the text in column 3 and *replace* with the following:
Where visual warning devices are installed, INSPECT all devices for any condition, including damage that is likely to adversely affect their function, and ensure that they are clearly and correctly labelled where labelling is required.
- 5 Item 1.8, *delete* the text in column 3 and *replace* with the following:
Where other warning devices are installed, INSPECT all devices for any condition, including damage that is likely to adversely affect their function, and ensure that they are clearly and correctly labelled where labelling is required.

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Table 6.4.2

- 1 Item 2.1, *delete* the text in column 3 and *replace* with the following:
‘SIMULATE an alarm condition via an alarm zone, and confirm that all required common visual and audible indications and output controls activate. Where the CIE is monitored, ensure the alarm is processed by the monitoring service provider. Where the CIE is a sub CIE confirm that the fault condition is indicated at the main CIE.’
- 2 Item 2.2, *delete* ‘alarm’ in the second last line of column 3 and *replace* with ‘fault’.
- 3 Item 2.8, column 3, *delete* ‘indicator’ from second line.
- 4 Item 2.15, *delete* the entire item and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency				Records		
			Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.15	Battery	When the battery has not been replaced in the previous two years, ensure the battery capacity is at least equal to the capacity required for quiescent current and alarm current conditions by carrying out a discharge TEST in accordance with the manufacturer’s recommendations.			✓	✓		Quiescent current A Maximum alarm current A Required capacity .. Ah Measured capacity ..Ah	

- 5 Item 2.28, *delete* the text in column 2 and *replace* with ‘Occupant warning system—Warning signal’.
- 6 Item 2.30, *delete* entire item and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency				Records		
			Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.30	Occupant warning system	UNDERTAKE sound pressure level tests and ensure the results obtained throughout the building meet the requirements of the standard to which the system was installed.				✓	Minimum SPL .. dB(A) .....area Minimum SPL .. dB(A) .....area		

Table 7.4.1, Item 1.1

Delete ‘specified for Items 1.2 to 1.3’ in the note at the foot of the table and *replace* with ‘specified for Items 1.1 to 1.3’.

Table 7.4.2, Item 2.1

- 1 *Delete* the '✓' from the monthly and six-monthly frequency column.
- 2 *Delete* note in Column 3 and *replace* with the following:
 'NOTE: For residential occupancies, it is recommended that this test be carried out by the occupant at a six-monthly frequency.'

Table 9.4.1

- 1 Item 1.2:
 - (a) *Delete* text in column 2 and *replace* with 'Emergency call points'.
 - (b) *Delete* text in column 3 and *replace* with the following:
 Where emergency call points are installed, INSPECT all devices for any condition, including damage that is likely to adversely affect their function, and ensure that they are clearly and correctly labelled where labelling is required. Where an emergency call point is obscured by a door, check that the door is correctly labelled.
- 2 Item 1.3, *delete* text in column 3 and *replace* with the following:
 Where visual warning devices are installed, INSPECT all devices for any condition, including damage that is likely to adversely affect their function, and ensure that they are clearly and correctly labelled where labelling is required.
- 3 Item 1.4, *delete* text in column 3 and *replace* with the following:
 Where other warning devices are installed, INSPECT all devices for any condition, including damage that is likely to adversely affect their function, and ensure that they are clearly and correctly labelled where labelling is required.

Table 9.4.2

- 1 Item 2.10, *delete* entire item and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency				Result	Records	
			Monthly	Six-monthly	Yearly	Five-yearly		Pass/fail	Comments
2.10	Battery	When the battery has not been replaced in the previous two years, ensure the battery capacity is at least equal to the capacity required for quiescent current and alarm current conditions by carrying out a discharge TEST in accordance with the manufacturer's recommendations.			✓	✓		Quiescent current A Maximum alarm current A Required capacity .. Ah Measured capacity ..Ah	

- 2 Item 2.15:
 - (a) *Delete* the text in column 2 and *replace* with 'Warning signals'.
 - (b) *Delete* 'tones' from the first line in column 3 and *replace* with 'warning signals'.
 - (c) *Insert* 'distinctly' between 'are' and 'audible'.

3 Item 2.18, *delete* entire item and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency				Records		
			Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.18	Sound pressure level	<p>UNDERTAKE sound results pressure level tests and ensure the results throughout the building meet the requirements of the Standard to which the system was installed.</p> <p>NOTE: Subjective audibility would generally be assessed during the periodic evacuation drill by the emergency control organization (ECO) or its representative.</p>				✓	<p>Min SPL in the bldg .. dB(A) Location.....</p> <p>Min SPL in the bldg .. dB(A) Location.....</p>		

Table 10.4.1

Item 1.3, *delete* the text in column 3 and *replace* with the following:

‘Where warden intercom points (WIPs) are installed, INSPECT all devices for any condition, including damage that is likely to adversely affect their function.’

Table 10.4.2

- Item 2.1, *delete* text in column 3 and *replace* with ‘Warden intercom points (WIPs)’.
- Item 2.8, *delete* the entire item and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency			Records		
			Monthly	Six-monthly	Yearly	Result	Pass/fail	Comments
2.8	Battery	When the battery has not been replaced in the previous two years, ensure the battery capacity is at least equal to the capacity required for quiescent current and maximum alarm current conditions by carrying out a discharge TEST in accordance with the manufacturer’s recommendations.			✓		<p>Quiescent current A</p> <p>Maximum alarm current A</p> <p>Required capacity .. Ah</p> <p>Measured capacity ..Ah</p>	

Table 11.4.1

- 1 Item 1.2, *delete* 'reference to AS 1603.11' in column 3 and *replace* with 'AS 4214'.
- 2 Item 1.8:
 - (a) *Delete* the first sentence in column 3 and *replace* with the following:
'INSPECT each container pressure indicator to check that any loss in pressure is not greater than 10% of the nominal charge pressure'.
 - (b) *Delete* 'and mass' from column 2.
- 3 Item 1.24, *delete* the last word on the second line in column 3 and *replace* with 'oriented'.

Table 11.4.2, Item 2.14

Delete the entire item and *replace* with the following:

Item No.	Item	Action required & pass/fail requirement	Frequency				Records		
			Monthly	Six-monthly	Yearly	Five-yearly	Result	Pass/fail	Comments
2.14	Cylinder contents liquefiable gases	CONFIRM by weighing, or using liquid level determination, that each gas container is charged with the correct quantity of extinguishing agent, that is, any mass loss is not greater than 5% of the nominal charge mass in the case of halocarbons, and not greater than 10% of the nominal charge mass in the case of carbon dioxide.		✓	✓	✓	.....kg.....kg.....kg.....mm.....mm.....mm	..... ..... ..... ..... ..... .....

Table 15.4.1, Item 1.4

Delete 'tag/label' in columns 2 and 3 and *replace* with 'tag or label', in both instances.

Table 15.4.2, Item 2.4(a)(ii)

Delete the '✓' from the five-yearly frequency column.

Clause 17.4.3.1

Delete 'sole occupancy units' and *replace* with 'private residential apartments'.

Commentary C18.2.2

Line 1, *add* 'from an accessible platform, or from an accessible roof,' after 'from floor level or'.

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Clause 18.2.3

Delete references to tables and *replace* with ‘Tables 18.4.1.1 and 18.4.1.2’ respectively.

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Table 18.4.1.5

Insert a comma (,) after ‘RELIEF AIR’, in line 3 of the table heading.

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Table 18.4.2.2, Item 2.6

Records/Results column, *add* ‘Record all differential pressures on a separate sheet’.

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Table 18.4.2.3

Delete the table heading and *replace* with the following:

**‘TEST AND RECORDS SCHEDULE—FIRE AND SMOKE CONTROL
FEATURES OF HVAC SYSTEMS—SMOKE EXHAUST SYSTEMS’**

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Clause 19.4.1, Item (a)

Delete reference to Clause ‘19.4.1’ and *replace* with ‘Clause ‘19.4.2’.

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Table 19.4.2, Item 1.3

1 *Delete* the ‘✓’ in the six-monthly frequency column.

2 *Delete* the text in column 3 and *replace* with the following:

‘INSPECT the emergency procedures and test for relevancy to the facility by conducting an evacuation exercise for a nominated incident covered by the emergency procedures.’

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Appendix C

Delete reference to ‘Table E1’ at the end of third line of the opening paragraph and *replace* with ‘Table C1’.

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