

STANDARDS AUSTRALIA

Amendment No. 1
to
AS 4487—2013
**Condensed aerosol fire extinguishing systems—Requirements for system design,
installation and commissioning and test methods for components**

REVISED TEXT

The 2013 edition of AS 4487 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Preface, Clauses 5.7.1, 5.7.2, 7.7.2, 7.7.3, 7.7.3.1, 7.7.3.2, 7.7.3.3, 7.7.3.4, 7.7.3.5, 7.7.3.6, 7.7.4, 8.2.1, 8.2.6, 8.2.7, Figure 1 and Figure 2, and Appendix A.

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Preface

After the second paragraph *add* the following new paragraph:

This update references AS 1670.5 for electrical detection actuation and control system requirements in place of Appendix A of the previous edition of this Standard.

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Clause 2

After entry AS 1670.1, add the following reference:

1670.5 Part 5: Special hazards systems

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Clause 5.7.1

Delete clause text and *replace* with the following:

In any proposed use of aerosol where people may enter the protected enclosure or be close to the protected risk, suitable safeguards such as personnel training, warning signs, pre-discharge alarms and automatic/manual switches shall be provided. Means of ventilation after fire shall be readily available.

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Clause 5.7.2

Delete Item (h) and *replace* with the following:

(h) Where required, pre-discharge alarms shall operate immediately upon detection of the fire and shall be distinctive from all other alarm signals.

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Clause 7.7.2

Delete the clause title and text of the first and second paragraphs (excluding 'Note') and *replace* with the following:

7.7.2 Electrical detection, actuation and control systems

Electrical detection, actuation and control systems shall be in accordance with this Clause 7.7 and AS 1670.5.

Except where the potential exists for a very rapidly developing fire, detection should be configured for dual detector automatic discharge of the condensed aerosol system.

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Clause 7.7.3

Delete the clause title and replace with the following:

7.7.3 *Suppression system activation*

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Clause 7.7.3.1

Delete clause title and first paragraph and replace with the following:

7.7.3.1 *Automatic activation*

Automatic systems shall be controlled by automatic fire detection and actuation systems suitable for the fire suppression system and intended application, and shall be provided with a means of manual activation.

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Clause 7.7.3.4

Delete the last paragraph and replace with the following:

The letter sizes, colours, and operation of the visual warning devices shall be in accordance with AS 1670.5.

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Clause 7.7.3.5

Delete the clause text and title and replace with the following:

7.7.3.5 *Audible alarms*

Audible alarms shall be provided within the protected area to give positive warning of detection of the presence of fire and/or impending discharge. The sequence of operation and tone of the audible alarm shall be in accordance with AS 1670.5.

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Clause 7.7.3.6

Delete the clause title and clause text and replace with the following:

7.7.3.6 *Automatic/manual switch*

The discharge of electrically operated aerosol generators in total flooding applications in areas where people may be present shall be capable of being prevented by means of an automatic/manual switch. In addition to the functions specified for the automatic/manual switch in AS 1670.5, operation of the switch shall also electrically disconnect both conductors to the extinguishing agent discharge actuator.

The automatic/manual switch shall be installed immediately adjacent to and preferably outside the designated emergency exit(s) from the area. It shall be protected from accidental operation.

NOTE: The automatic/manual switch should be placed into manual mode prior to personnel entering the protected space or adjacent areas which could be rendered hazardous by the discharge of condensed aerosol.

While the automatic/manual switch is in manual mode, the fire detection and alarm systems shall continue to function.
