

AS 2593:2021



Boilers — Safety management and supervision systems



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This Australian Standard® was prepared by ME-001, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 01 March 2021.

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The following are represented on Committee ME-001:

- Australasian Institute of Engineer Surveyors
- Australian Aluminium Council
- Australian Industry Group
- Australian Institute for Non-Destructive Testing
- Australian Institute for the Certification of Inspection Personnel
- Australian Institute of Petroleum
- Bureau of Steel Manufacturers of Australia
- Compressed Air Association of Australasia
- Energy Networks Australia
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- Gas Energy Australia
- Insurance Council of Australia
- Materials Australia
- National Association of Testing Authorities Australia
- Office of Industrial Relations, Qld
- Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
- SafeWork SA
- Weld Australia
- WorkSafe Division — Department of Mines, Industry Regulation and Safety (DMIRS), WA
- Victorian WorkCover Authority (WorkSafe Victoria)

This Standard was issued in draft form for comment as DR AS 2593:2019.

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Preface

This Standard was prepared by the Australian members of Standards Australia/Standards New Zealand Committee ME-001, Pressure Equipment to supersede AS 2593—2004, *Boilers — Safety management and supervision systems*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than as an Australian/New Zealand Standard.

The inclusion of roles and responsibilities in AS 2593:2021 was approved by the Standards Development and Accreditation Committee on 4 February 2021, as a one-off exemption to the directives of Standardisation Guide 009, Preparation of Standards for Legislative Adoption.

The objective of this Standard is to —

- (a) specify clear, safe, minimum requirements for the operation of all boilers and other devices;
- (b) assist all parties involved in the provision of safe boilers and other devices;
- (c) provide a basis for determination of the boiler attendance category with any supervision, checking, testing and maintenance with a view to support safety; and
- (d) specify emission requirements that will support an overall reduction in greenhouse gas emissions from boilers.

The major changes made in this revision include —

- (i) defining the criteria for different boiler attendance categories with limited attendance operation no longer being part of this Standard;
- (ii) specifying that devices connected to the boiler, such as any economizer or superheater or deaerator, are also to be treated as part of any boiler in the attendance category;
- (iii) defining the minimum safety requirements for any economizer or superheater or deaerator when connected to a boiler;
- (iv) defining the minimum safety requirements for boilers with greater than 500 kW power output with a boiler attendance category of “unattended”, to have only one flame safeguard of the continuous self-checking type equipped with a flame detector;
- (v) defining the minimum criteria for feedwater pumps and feedwater tanks in relation to any necessary consideration of capacity and net positive suction head (NPSH) requirement;
- (vi) defining the minimum criteria for feedwater tanks in relation to low-water safety devices fitted in the feed tank (or other feedwater storage device) for all boiler power outputs with a boiler attendance category of “unattended”;
- (vii) defining the requirements for automatic modulating water level control in all boilers exceeding 1 MW power output;
- (viii) defining installation requirements for vertical boiler types fitted with down-fired packaged burners that include sufficient head room and mechanical lifting equipment to allow for safe and complete burner removal, and to provide platforms, walkways, stairways, and ladders to enable all round access to the boiler for its safe operation, inspection, maintenance and complete burner removal; and
- (ix) specifying that the combustion equipment for all boilers is to be capable of effecting satisfactory combustion and provide for reduced greenhouse gas emissions.

Users of this Standard are reminded that it has no legal authority in its own right, but may acquire legal standing in one or more of the following circumstances:

- (A) Adoption by a government authority.
- (B) Adoption by a purchaser as a required standard of construction when placing a contract.
- (C) Adoption where a manufacturer states that a boiler and other devices are in accordance with this Standard.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is for information and guidance only.

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