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Amendment 1- January 1992. Amendment 2- December 1992.

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SUPERSEDED BY: AS /MS 3788: 1996

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Australian Standard®

Boilers and pressure vessels— In-service inspection

# STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee ME/1, Boilers and Unfired Pressure Vessels. It was approved on behalf of the Council of Standards Australia on 21 May 1990 and published on 17 September 1990.

The following interests are represented on Committee ME/1:

ACT Administration—Office of City Management

Australian Compressed Air Institute

Australian Institute for Non-destructive Testing

Australian Institute of Energy

Australian Institute of Petroleum

Australian Liquefied Petroleum Gas Association

Australian Valve Manufacturers Association

Boiler and Pressure Vessel Manufacturers Association of Australia

Bureau of Steel Manufacturers of Australia

Confederation of Australian Industry

Department of Defence

Department of Industrial Affairs, Qld

Department of Industrial Relations and Employment, N.S.W.

Department of Labour and Industry, Tas.

Department of Labour, S.A.

Department of Labour, Vic.

Department of Occupational Health, Safety and Welfare, W.A.

Electricity Supply Association of Australia

Institute of Metals and Materials Australasia

Institution of Engineers Australia

Insurance Council of Australia

Metal Trades Industry Association of Australia

National Association of Testing Authorities, Australia

Railways of Australia Committee

Society of Mechanical Engineers of Australasia

Sugar Research Institute

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Work Health Authority, N.T.

and amendments, and of withdrawn Standards. Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 88104.

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

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AS 3788/Amdt 1/1992-01-17

## STANDARDS AUSTRALIA

# Amendment No 1

#### to AS 3788—1990

Boilers and pressure vessels—In-service inspection

#### **REVISED TEXT**

The 1990 edition of AS 3788 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 1.3.3, 1.3.13, 2.4, 3.1, 3.3.1, 3.4, 4.1, 4.3, 4.4.3.4, 4.4.3.6, 4.6.3, 4.6.4, 4.6.5.3, 5.2.5.1, 5.3.2, 5.3.3, 5.3.5, 5.3.6, 5.3.8, 6.1, 6.3, 8.3, Table 4.1 and Appendices A, B, E, F, G and N. Published on 17 January 1992.

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Page 5 Clause 1.3.3

Last line, *delete* 'as assessed by the owner' and *add* the following new Notes:

## JAN Last line 1992 NOTES:

1 A competent person shall be each person involved in the overall inspection process who contributes to the integrity assessment of the pressure equipment and includes the accredited inspector.

2 A competent person may seek specialist advice and assistance as required to make mature judgement.

## DT Page 7 Clause 1.3.13

Add the following new Clause 1.3.13:

**1.3.13** Defect—imperfections, damage, deterioration, or deficiencies in pressure equipment. NOTE: The presence of a defect in pressure equipment does not necessarily imply that the equipment is unfit for service.

# AMDT Page 8 Clause 2.4

Add the following new Clause 2.4:

2.4 INSPECTION PROCESS The inspection process shall achieve the objectives of the inspections (see Clause 2.1), shall be cognisant of the inspection elements (see Clause 2.2) and shall be performed at the stages required in Clause 2.3 and as follows:

- (a) The inspection requirements are planned by consultation between the accredited inspector, the owner and competent persons as required. The planning stage will establish the items of plant to be inspected, the scope of inspections, methods of inspections, requirements for surface preparation, safety requirements, and other relevant matters.
- (b) Where appropriate, an inspection shall be performed while the plant is operational for signs of deterioration, damage or evidence that suggests damage or deterioration may exist, e.g. leaks, vibration. The planned inspections may be reviewed based on this inspection.
- (c) Based on the results of the inspection, the accredited inspector shall assess the findings and provide a report to the owner which includes the following:
  - (i) Summary of the inspections performed, the inspection methods and findings.
  - (ii) Detailed inspection reports for all inspections.
  - (iii) The criteria for assessment of the inspection findings.
  - (iv) The results of the assessment of the inspection findings.
  - (v) Reports covering the assessment of the inspection findings, e.g. assessments by the inspector or competent persons.
  - (vi) The recommended interval to the next inspection.
  - (vii) Special comments, e.g. defect monitoring requirements, recommended future inspections, recommended repairs, or recommended changes to current operating practices and parameters.

Where appropriate, a certificate for continued operation shall be furnished by the accredited inspector.

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No 1 JAN 1992

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AMDT	Page 9 Clause 3.1	_
No 1 JAN 1992	1st sentence, add the following:	
	'(as defined in Table 4.1)'.	
	2nd sentence, delete 'preferably' and the last 'should'.	
	Add the following as a last paragraph:	
	The owner shall ensure that all persons involved in assessing the integrity of the pressure equipment are competent.	
AMDT	Page 9 Clause 3.3.1	-
No 1 JAN 1991	3rd paragraph, delete 'AS 3900 and should' and substitute 'AS 3901 or AS 3902 and shall'.	-
AMDT	Page 10 Clause 3.4	
No I JAN	After 'LP gas automatic fuel vessel', add 'and'.	
1992	Insert '(' before 'including'.	
	Insert ')' after 'capacity'.	
AMDT	Page 11 Clause 4.1	_
No I JAN	Add the following as 2nd and 3rd paragraphs:	
1992	Inspections referred to in Table 4.1 shall be executed by an accredited inspector. The owners' attention is especially drawn to their responsibilities as specified in Clause 4.4.3.4.	
AMDT No 1 JAN 1992	Page 11 Clause 4.3	
	Add the following Note after the second paragraph: NOTE: AS 3873 refers to requirements for the operation and maintenance of pressure equipment.	
AMDT	Page 12 Clause 4.4.3.4, second line	-
No 1 JAN	Delete 'pressure'.	
1992 AMDT	Page 13 Table 4.1—NOTES	-
No 1 JAN 1992	Note 6, 2nd sentence, after 'reheaters' add 'vacuum vessels'.	
		-
AMDT No I	Page 13 Clause 4.4.3.6(a)(xv)	<b></b>
JAN 1992	After 'zinc' add 'or'.	-
AMDT No 1 JAN 1992	Page 16 Clause 4.6.3	
	Delete 'establish procedures' and substitute 'ensure procedures are established'.	_
AMDT	Page 16 Clause 4.6.4	
No 1 JAN 1992	First sentence after 'In-service', add 'visual'.	
	Add the following new last sentence:	
	Valves with easing gear should be operated.	-
AMDT	Page 16 Clause 4.6.5.3	
No I JAN 1992	Last paragraph, after 'a competent person' add 'or where required by the Inspecting Authority, by an accredited inspector.'	

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AMDT Page 19 Clause 5.2.5.1(c)(v) No 1 Delete 'and' Page 19 Clause 5.2.5.1(c)(vi) Add '; and' Page 19 Clause 5.2.5.1(c) Add the following: (vii) the material thickness. AMDT Page 21 Clause 5.3.2(g)' Page 21 Clause 5.3.2(g)' Page 21 Clause 5.3.3(g) Page 21 Clause 5.3.3 MOT Page 21 Clause 5.3.3(a) Delete '(a) Assessment of specific defects'. Page 21 Clause 5.3.3(a) Delete '(a) Assessment of specific defects'. Page 21 Clause 5.3.3(b) No 1 Page 22 Clause 5.3.3(b) Page 22 Clause 5.3.3(b) Transfer 'Clause 5.3.3(b) Transfer 'Clause 5.3.3(b) Page 22 Clause 5.3.5 Page 22 Clause 5.3.6 Page 22 Clause 5.3.7 Page 22 Clause 5.3.8 Page 24 Clause 6.1(b) Page 24 Clause 6.3 Page 24 Clause 6.3	
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JAN Delete 'competent personnel' and substitute 'a competent person(s)'.	
AMDT <b>"rage 24 Clause 0.5</b>	
Nol	
First sentence, delete 'reduce' and substitute 'alter' and delete 'to exceed the original design parameters'.	
AMDT Page 24 Clause 6.3(b)	
No 1 JAN Delete 'should' and substitute 'shall'.	-
1992	•
AMDT Page 24 Clause 6.3(d)	
JAN Delete 'should' and substitute 'shall'.	
AMDT Page 29 Clause 8.3(e)	
No 1 JAN Delete 'correspondence' and substitute 'records'.	
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