

DUP

Under Revision See 01295737

AS 3788—1990

SUPERSEDED BY: AS/NZS 3788:1996

Australian Standard[®]

**Boilers and pressure vessels—
In-service inspection**



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
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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:

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.

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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.

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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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Page 9 Clause 3.1

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.

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Page 9 Clause 3.3.1

3rd paragraph, *delete* 'AS 3900 and should' and *substitute* 'AS 3901 or AS 3902 and shall'.

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Page 10 Clause 3.4

After 'LP gas automatic fuel vessel', *add* 'and'.

Insert '(' before 'including'.

Insert ')' after 'capacity'.

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Page 11 Clause 4.1

Add the following as 2nd and 3rd paragraphs:

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.

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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.

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Page 12 Clause 4.4.3.4, second line

Delete 'pressure'.

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Page 13 Table 4.1—NOTES

Note 6, 2nd sentence, after 'reheaters' *add* 'vacuum vessels'.

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Page 13 Clause 4.4.3.6(a)(xv)

After 'zinc' *add* 'or'.

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Page 16 Clause 4.6.3

Delete 'establish procedures' and *substitute* 'ensure procedures are established'.

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Page 16 Clause 4.6.4

First sentence after 'In-service', *add* 'visual'.

Add the following new last sentence:

Valves with easing gear should be operated.

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Page 16 Clause 4.6.5.3

Last paragraph, after 'a competent person' *add* 'or where required by the Inspecting Authority, by an accredited inspector.'

AMDT Page 19 Clause 5.2.5.1(c)(v)

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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.

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Page 21 Clause 5.3.2(e)

Add the following at the end of the sentence:

'and known specific defects'.

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Page 21 Clause 5.3.3

First sentence, delete 'following:' and insert 'assessment of specific defects.'

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Page 21 Clause 5.3.3(a)

Delete '(a) Assessment of specific defects'.

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Page 21 Clause 5.3.3(b)

Transfer 'Clause 5.3.3(b)' to new Clause numbered '5.3.8'.

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Page 22 Clause 5.3.5

Delete ' $n =$ ' and substitute ' $n_i =$ '.

Delete ' $N =$ ' and substitute ' $N_i =$ '.

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Page 22 Clause 5.3.6

For ' $T_m =$ ' delete '(see Appendix N)'.

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Page 22 Clause 5.3.8

Renumber as '5.3.9'.

First sentence, delete 'above' and insert '(Clauses 5.3.4, 5.3.5, 5.3.6 and 5.3.7)'.

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Page 24 Clause 6.1(b)

Delete 'competent personnel' and substitute 'a competent person(s)'.

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Page 24 Clause 6.3

First sentence, delete 'reduce' and substitute 'alter' and delete 'to exceed the original design parameters'.

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Page 24 Clause 6.3(b)

Delete 'should' and substitute 'shall'.

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Page 24 Clause 6.3(d)

Delete 'should' and substitute 'shall'.

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Page 29 Clause 8.3(e)

Delete 'correspondence' and substitute 'records'.

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