AS 3873—1995

Australian Standard®

Pressure equipment— Operation and maintenance This Australian Standard was prepared by Committee ME/1, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 7 July 1995 and published on 5 September 1995.

The following interests are represented on Committee ME/1:

ACT WorkCover

Aluminium Development Council, Australia

Australian Chamber of Commerce and Industry

Australian Institute of Energy

Australian Institute of Petroleum

Australian Institute of Pressure Equipment Engineers

Australian Liquefied Petroleum Gas Association

Boiler and Pressure Vessel Manufacturers Association of Australia

Bureau of Steel Manufacturers of Australia

Department of Employment, Vocational Education, Training and Industrial Relations, Qld

Department of Industrial Affairs, S.A.

Department of Labour, New Zealand

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

Electricity Corporation of New Zealand

Electricity Supply Association of Australia

Heavy Engineering Research Association, New Zealand

Institute of Metals and Materials, Australia

Institution of Engineers, Australia

Insurance Council of Australia

Metal Trades Industry Association of Australia

National Association of Testing Authorities, Australia

New Zealand Engineering Federation

New Zealand Petrochemical Users Group

New Zealand Timber Industry Federation

Occupational Health and Safety Authority, Vic.

Tasmania Development and Resources

Welding Technology Institute of Australia

WorkCover Authority, N.S.W.

Work Health Authority, N.T.

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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of 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.

AS 3873—1995

Australian Standard®

Pressure equipment— Operation and maintenance

AS 3873 — 1995

PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee ME/1 on Pressure Equipment to supersede AS 3873—1991, Boilers and pressure vessels—Operation and maintenance.

This Standard is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard. Consensus means general agreement by all interested parties. Consensus includes an attempt to remove all objections and implies much more than the concept of a simple majority, but not necessarily unanimity. It is consistent with this meaning that a member may be included in the Committee list and yet not be in full agreement with all clauses of this Standard.

It was recognized that there was a need to specify requirements and give guidance to owners, users, operators, inspectors, inspection bodies and regulatory authorities on the operation and maintenance of pressure equipment. Existing Standards, although specifying requirements for the safe design, manufacture and installation of pressure equipment systems, do not provide information for their operation or maintenance.

This Standard is a primary applicable Standard of AS/NZS 1200 *Pressure equipment* and together with AS 3788, *Boilers and pressure vessels—In-service inspection* is required to be adopted by legislation in Australian States and Territories (via the Australian NOHSC *National Standard for Plant*).

This Standard provides the minimum operation and maintenance requirements to ensure the continued safe and reliable operation of pressure equipment and for safety during maintenance, inspection, alteration, storage and disposal. In special circumstances, additional requirements may be necessary for adequate performance or safety. It is intended that this Standard should be used as a guide for training.

The main changes in this revision are as follows:

- (a) Provision of requirements and guidance on the risk assessment now being required by Australian Regulatory Authorities.
- (b) Expansion of requirements and details for safety management systems to meet the growing adoption of quality assurance and safety principles (and to comply with NZ regulations).
- (c) Clarification of terminology and editing to align with new regulations and Standards.
- (d) Additions to cover contractors, incident investigations and all types of pressure equipment.
- (e) Simplification of requirements for small operators.

Users of this Standard are reminded that it has no legal authority in its own right, but acquires legal standing when adopted by government or an authority having jurisdiction, or if specified as part of a commercial contract. This Standard recognises current world practice and may be used in litigation.

The principal object of this Standard is to provide uniform, safe and economic requirements and guidance for operation and maintenance of pressure equipment and for compliance by owner-users with Australian regulations and the New Zealand *Pressure Equipment, Cranes and Passenger Rope Ways Regulations*.

Acknowledgment is made for the assistance provided by Australian, NZ, USA and UK regulations in this revision.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

3 **AS 3873 — 1995**

CONTENTS

	P	age
SECTIO	N 1 SCOPE AND GENERAL	
1.1	SCOPE	6
1.2	APPLICATION AND PURPOSE	
1.3	REFERENCED DOCUMENTS	6
1.4	DEFINITIONS	6
SECTIO	N 2 MANAGEMENT AND PERSONNEL	
2.1	OWNER-USER'S RESPONSIBILITIES AND DUTIES	10
2.2	OWNER-USER'S SAFETY MANAGEMENT SYSTEM	11
2.3	EQUIPMENT SUITABILITY	11
2.4	COMMISSIONING	11
2.5	WORKPLACE RISK ASSESSMENT	12
2.6	ORDERLINESS OF SYSTEM AND SURROUNDING AREA	12
2.7	PROCESS INFORMATION	13
2.8	OPERATOR AND MAINTENANCE PERSONNEL TRAINING	13
2.9	OPERATOR QUALIFICATIONS AND DUTIES	14
2.10	MAINTENANCE—QUALIFICATIONS AND DUTIES	14
2.11	CONTRACTOR'S QUALIFICATIONS AND DUTIES	14
2.12	EMPLOYEE PARTICIPATION AND CONSULTATION	15
2.13	MANAGEMENT OF CHANGE	15
SECTIO	N 3 GENERAL OPERATING AND MAINTENANCE	
	PROCEDURES AND PRACTICES	
3.1	GENERAL	17
3.2	OPERATING PROCEDURES	17
3.3	OPERATIONAL SURVEILLANCE	18
3.4	SAFETY PRACTICES AND EMERGENCY PROCEDURES	19
3.5	MAINTENANCE PROCEDURES	20
3.6	INSPECTION	21
3.7	INCIDENT INVESTIGATION	21
3.8	OUT-OF-SERVICE STORAGE	21
3.9	RECORDS	22
SECTIO	N 4 SAFETY MANAGEMENT SYSTEM	
4.1	OWNER-USER'S RESPONSIBILITIES	23
4.2	SAFETY MANAGEMENT SYSTEM	23
4.3	CONTRACT REVIEW	23
4.4	DESIGN CHANGES OR ALTERATIONS	24
4.5	DOCUMENT CONTROL	24
4.6	PURCHASING	24
4.7	OWNER-USER SUPPLIED COMPONENTS	24
4.8	PRODUCT IDENTIFICATION AND TRACEABILITY	24
4.9	PROCESS CONTROL	24
4.10	INSPECTION AND TESTING	24
4.11	INSPECTION MEASURING AND TEST EQUIPMENT	25



	This is a free preview.	Purchase the e	entire publication	at the link below:
--	-------------------------	----------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation