
AUSTRALIAN ASSOCIATION OF
LIVE STEAMERS

AALS Reference Documentation



REFERENCE

Document control

This document consists of the following sections with the version dates shown.

Sections 1 to 11: 1 April 2016

This document consists of 21 pages (including cover).

This version is dated 1 April 2016

Authoring, Consultation and Approval

This document was produced by the Australian Live Steamers Safety Committee, a subcommittee of the Australian Association of Live Steamers Limited ABN 81 107 882 404 (AALS) Registered Office: 7 Reeves Close, Tullamarine, VIC. 3043

Any feedback is to be forwarded to:

Secretary

Australian Association of Live Steamers Ltd.

Contact details are available on the AALS website. www.aals.asn.au

About this document

The Australian Association of Live Steamers compiles Codes of Practice and Boiler Codes for use by Member Societies and their members so that minimum standards of competency and safety can be achieved.

This Reference Document was compiled in 2009 to identify all authorised AALS documentation and their versions, plus historical information on their development and revisions.

Distribution and change

The AALS maintains the master for this document and publishes the current version on the AALS website www.aals.asn.au

Any changes to the content of this publication will also update this control page. The control page defines the current version of this document. Changes to this document are consequential on changes to the Codes which are approved by vote by the member Society's of the Association in accordance with the Association's Constitution and Standing Orders.

Disclaimer

This document has been produced for use by the member Societies of the Australian Association of Live Steamers. Use by others for any purpose is at the users risk.

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1. CURRENT VERSIONS

1.1 Codes of Practice

Operation of Miniature Railways, Road Vehicles and Plant
Version 4 April 2013

Training of Operators and Attendants of Miniature Railways, Road Vehicles and Plant.
Version 1 April 2016

Standards for the Interoperability and Safety of Miniature Railways, Road Vehicles and Plant.
Version 3 July 2014

Gas Firing of AMBSC Boilers
Version 7 April 2012

Gas Firing for Small Models
Version 1 April 2016

1.2 Boiler Codes

AMBSC Code Part 1 Copper Boilers	Issue 8 - 2012
AMBSC Code Part 2 Steel Boilers	Issue 5 - 2012
AMBSC Code Part 3 Sub Miniature Boilers	Issue 1 – 2006
AMBSC Code Part 4 Duplex Steel Boilers	Issue 1 - 2010

1.3 Guidance Letters

Letter from ALSSC regarding Disabled Operators	April 2008
Letter from AALS President regarding Silver Solder and cadmium content.	April 2008
Letter from AMBSC Secretary regarding boiler water treatment	August 2011
Letter from ALSSC re Guideline on Legislation based on the Model Work Health and Safety Act and Regulations (version 23022015)	February 2015

2. AMBSC REGISTRATION CODES

Australian Capital Territory

AA Canberra Society of Model & Experimental Engineers

New South Wales

NA	Sydney Live Steam Locomotive Society Co-op Ltd	
NB	Sydney Society of Model Engineers Inc.	
NC	Illawarra Live Steamers Co-op Ltd.	
ND	Lake Macquarie Live Steam Locomotive Society Co-op Ltd	
NE	Blue Mountains Railway Society Co-op Ltd	
NF	Bankstown Steam Locomotive Society Co-op Ltd.	
NG	Western District Live Steamers Co-op Society Ltd	
NH	South Coast Model Engineering Society Co-op Ltd	(no longer operating)
NJ	Border Steam & Oil Engine Club	(no longer operating)
NK	Hornsby Model Engineers Co-op Ltd.	
NL	Canberra Society of Model & Experimental Engineers	(now AA)
NM	Bathurst Miniature Railway Co-op Ltd	
NN	Wagga Wagga Society of Model Engineers Inc	
NO	Central Coast Steam Model Co-op Ltd	
NP	Orange Society of Model Engineers Inc.	
NR	Mudgee Miniature Railway Co-op Society	
NS	Great Northern Railway	(No longer operating)
NT	Maritime Model Club of NSW Inc	(No longer operating)
NU	Ridge Narrow Gauge Railway	(No longer affiliated)
NV	Pacific Coast Railway Society Inc	
NW	St George Model Boat Club Inc	
NX	Berry Railway Inc.	
NY	Tweed Valley Miniature Steam Railway	
NZ	Twin Lakes Railway	(No longer operating)
N2A	Lake Forbes Model Club Inc	(No longer operating)
N2B	Southern Highlands Model Engineers Inc	
N2C	Richmond River Miniature Railway and Model Engineers	(No longer operating)
N2D	Museum Miniature Railway Leeton	
N2E	Jerilderie Steam, Rail & Heritage Club	
N2F	Penwood Railroad Inc	
N2G	Timbertown Railway & Model Engineers Society	
N2H	Ravenglass Light Railway	
N2I	Pioneer Diary Steam Railway Inc	(No longer operating)
N2J	Tamworth & District Model Engineers Inc	

- N2K Holbrook Miniature Railway Society Incorporated
- N2L Rails in the Garden Inc
- N2M Quirindi Village Miniature Railway
- N2N Walka Model Engineering Society of Maitland
- N2O Highlands Miniature Railway Inc
- N2P Edward River Society of Model Engineers Inc

Victoria

- VA Steam Locomotive Society of Victoria Inc.
- VB Melbourne Society of Model and Experimental Engineers Co-op Ltd (No longer operating)
- VC Loddon Miniature Steam Locomotive Society Co-op Ltd
- VE Springvale Live Steamers
- VF Diamond Valley Railway Inc
- VG Tullamarine Live Steam Locomotive Society
- VH BlueScope Steel Western Port Railway Society
- VJ Altona Miniature Railway Inc
- VK Lake Hume Model Engineers Inc.
- VL Mooroolbark & District Miniature Railway & Steam Club Inc
- VM Box Hill Miniature Steam Railway Society
- VN Ballarat Society of Model Engineers Inc.
- VO Gippsland Model Engineering Society Inc.
- VP Wandong Live Steamers Inc.
- VR Geelong Society Model & Experimental Engineers
- VS Euroa Steam Locomotive & Model Engineers Society Inc.
- VT South Western Model Engineers Inc
- VU Wimmera Live Steam & Model Engineers Society Inc
- VW Bendigo Society of Model Engineers
- VX Campaspe Valley Miniature Railway Inc
- VY Gisborne Vintage Machinery Society (No longer registered)
- VZ Nhill Miniature Railway Inc (No longer operating)
- V2A Mooroopna- Shepparton Miniature Railway
- V2B Moira Miniature Rail Inc.
- V2C Hamilton Model Railway Group Inc

South Australia

- SA South Australian Society of Model and Experimental Engineers Inc
- SB Whyalla Society of Model Engineers (No longer operating)
- SC Morphett Vale Railway Inc.
- SD Penfield Model Engineers Society Inc

SE	Adelaide Miniature Steam Railway Society	
SF	Roseworthy Railway Inc.	
SG	Paris Creek Railroad	(No longer operating)
SH	Port Augusta Model Engineers Inc	
SK	Clare Valley Model Engineers Inc	
SL	Copper Coast Region Old Machinery & Engineering Club	

Queensland

QA	Queensland Society of Model & Experimental Engineers Inc	
QB	MELSA Maryborough Inc	
QC	Mackay Society of Model Engineers Inc	
QD	Sunshine Coast Railway Modellers Society Inc	
QE	Toowoomba Live Steamers Inc.	
QF	MELSA Rockhampton Inc	
QG	Leichardt River Railway Modellers Society Inc	(No longer operating)
QH	MELSA Gladstone Inc.	
QJ	South East Queensland Live Steamers	(No longer operating)
QK	Townsville & District Society of Model Engineers Inc	
QL	Logan Model Engineering Society Inc	
QM	MELSA Bribie Inc.	
QN	Brisbane Bayside Steam Railway Inc	
QP	Grandchester Model Live Steam Association Inc	
QR	Redland Model Engineers Inc	(No longer operating)
QS	Innisfail Mini Rail Club Inc	
QT	Model Engineers & Live Steamers Highfields Inc	

Tasmania

TA	North West Model Engineering Society.	
TB	Hobart Miniature Steam Locomotive Society Inc.	
TC	Evandale Light Railway & Steam Society Inc.	

Western Australia

WA	Castledare Miniature Railway W.A.Inc. (WA)	
WC	West Australian Model Engineers Club Inc	(No longer operating)
WD	Great North West Model and Miniature Railway Society Inc	(No longer operating)
WE	South West Model Engineers Association (W.A.) Inc	
WF	Northern Districts Model Engineering Society (Perth) Inc	
WG	Kattanning Miniature Railway Society (Inc)	
WH	Toodyay Miniature Railway Inc	
WJ	Batavia Coast Miniature Railway Society	

Approved Manufacturers (Copper)

CM	R & A Mears, Padstow, NSW	(No longer operating)
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3. LIST OF AFFILIATED SOCIETIES.

Australian Capital Territory.

Canberra Society of Model & Experimental Engineers

New South Wales.

Bankstown Steam Locomotive Society Co-op Ltd.
Bathurst Miniature Railway Co-op Ltd.
Berry Railway Inc.
Blue Mountains Railway Society Co-op Ltd.
Central Coast Live Steam Model Co-op Ltd.
Edward River Steam Railway Inc.
Highlands Miniature Railway, Inc.
Holbrook Miniature Railway Society Inc.
Hornsby Model Engineers Co-op Ltd.
Illawarra Live Steamers Co-op Ltd.
Jerilderie Steam Rail & Heritage Club.
Lake Macquarie Live Steam Locomotive Co-op Society Ltd.
Mudgee Miniature Railway Co-op Society Ltd.
Museum Miniature Railway.
North Western Model Engineers, Inc.
Orange Society of Model Engineers Inc.
Pacific Coast Railway Society Inc.
Penwood Railroad Inc.
Rails in the Garden Inc.
Ravenglass Light Railway, Milthorpe, NSW.
Quirindi Village Miniature Railway.
Southern Highlands Model Engineers Inc.
St George Model Boat Club Inc.
Sydney Live Steam Locomotive Society Co-op Ltd
Sydney Society of Model Engineers Inc.
Tamworth & District Model Engineers Inc.
Timbertown Railway and Model Engineers Inc.
Tweed Valley Miniature Steam Railway Inc.
Walka Model Engineering Society of Maitland Inc.
Wagga Wagga Society of Model Engineers Inc.
Western District Live Steamers Co-op Society Ltd.

Queensland.

Brisbane Bayside Steam Railway Inc.
Grandchester Model Live Steam Association Inc.
Innisfail Mini Rail Club Inc.
Logan Model Engineering Society Inc.
Mackay Society of Model Engineers Inc.
MELSA. Bribie Inc.
MELSA. Gladstone Inc.
MELSA. Maryborough Inc.
MELSA. Rockhampton Inc.
Model Engineers and Live Steamers Highfields Inc.
Queensland Society of Model & Experimental Engineers Inc.
Sunshine Coast Railway Modellers Society Inc.
Toowoomba Live Steamers Inc.
Townsville & District Society of Model Engineers.

South Australia.

Adelaide Miniature Steam Railway Society.
Clare Valley Model Engineers Inc.
Copper Coast Region old Machinery and Engineering Club Inc.
Morphett Vale Railway Inc.
Penfield Model Engineers Society Inc.
Port Augusta Model Engineers Inc.
Roseworthy Railway Inc.
South Australian Society of Model & Experimental Engineers Inc.

Tasmania

Beaconsfield Miniature Railway and Model Club.
Evandale Light Railway & Steam Society Inc.
Hobart Miniature Steam Locomotive Society Inc.
North West Model Engineering Society.

Victoria.

Altona Miniature Railway Inc.
Ballarat Society of Model Engineers Inc.
Bendigo Society of Model Engineers.
BlueScope Steel Western Port Railway Society.
Box Hill Miniature Steam Railway Society.
Campaspe Valley Miniature Railway Inc.
Diamond Valley Railway Inc.
Euroa Steam Locomotive & Model Engineers Society Inc.
Geelong Society Model & Experimental Engineers.
Gippsland Model Engineering Society Inc.
Gisborne Vintage Machinery Society, Victoria.
Hamilton Model Railway Group Inc.
Lake Hume Model Engineers Inc.
Loddon Miniature Steam Locomotive Society Inc.
Moir Miniature Rail Inc.
Mooroolbark & District Miniature Railway & Steam Club Inc.
Mooroopna-Shepparton Miniature Railway Inc.
South Western Model Engineers Inc.
Springvale Live Steamers.
Steam Locomotive Society of Victoria Inc.
Tullamarine Live Steam Society.
Victorian Miniature Railway Inc.
Wandong Live Steamers Inc.
Wimmera Live Steam & Model Engineering Society.

Western Australia

Batavia Coast Miniature Railway Society.
Castledare Miniature Railway W.A.Inc.
Kattanning Miniature Railway Society.
Northern Districts Model Engineering Society Perth Inc.
South West Model Engineers Association (W.A.) Inc.
Toodyay Miniature Railway Inc.

4. HISTORICAL NOTES on the Boiler Codes

4.1 Copper Codes

The copper boiler code was first compiled by the Australian Miniature Boiler Safety Committee and was first published in 1968. The committee consisted of:

Chairman	C W Gunning
Honorary Secretary	R V Wood CEng FIPE
Technical Representative	S L N Childs – MSMechE (Aust)

Committee members were representatives of the following NSW Clubs with ratification by societies throughout Australia.

Sydney Live Steam Locomotive Society	C W Gunning; R V Wood
Illawarra Live Steamers	D H Merrifield; B Glover
Blue Mountains Railway Society	M J Clark
Bankstown Steam Locomotive Society	C J Mead
Lake Macquarie Live Steam Locomotive Society	A Campbell
Sydney Society of Model Engineers Ltd	G Whitmore; J Hutchinson

The 1976 revised code (Issue 2) and the 1977 revised code (Issue 3) was prepared by the AMBSC Committee:

Chairman	C W Gunning
Honorary Secretary	R V Wood CEng FIPE
Technical Representative	S L N Childs – MSMechE (Aust)

Details of Issue 4 are not available.

The 1984 revised code (Issue 5) was prepared by the AMBSC Committee:

Chairman	J L Hyde
Honorary Secretary	D H Merrifield CEng, MIMechE, MIE (Aust)
Technical Representative	G H Sturday – C Eng, MIE (Aust)

The 1994 revised code (Issue 6) was prepared by the AMBSC Committee:

Chairman	E J Evans
Honorary Secretary	D H Merrifield CEng, MIMechE, MIE (Aust)
Assistant Secretary	E B Day – MWTIA C.Weld.S
Technical Representative	R Sanderson – C Eng, MIE (Aust) F.A.I.E
Calculations Checked	A R Forsyth
Typist	S Carter
Typesetting & Drawings for Publication	B Carter

The 2001 revised code (Issue 7) was prepared by the AMBSC Committee:

Chairman	I Kirby B Sc (Eng), ASME, CP Eng, MIE Aust
Honorary Secretary	D H Merrifield CEng, MIMechE, MIE (Aust)
Technical Representative	G R Forsyth – Grad. O IE Aust

The revised Code (Issue 8 – 2012) was prepared by the AMBSC and the Committee consisted of;

Chairman	B. Potter
Hon. Secretary	L. Irwin

4.2 Steel Codes

The steel boiler code was first compiled by the Australian Miniature Boiler Safety Committee and was first published in 1974. The committee consisted of:

Chairman	C W Gunning
Honorary Secretary	R V Wood CEng FIPE
Technical Representative	S L N Childs – MSMechE (Aust)

The original AMBSC Code Part 2 was written and compiled by R V Wood – C Eng, FIPE and covered “BRIGGS” type stayless steel boilers.

Details of Issue 2 are not available.

The 1987 revised code (Issue 3) extended the original scope with additions to include further developments in the design of steel boilers fitted to miniature steam machinery, and incorporates experience gained in the construction and operation of this type of machinery.

Acknowledgement was made of the information and consultation by Eric Evans and Jim Jackson (QSMEE) and also Keith Watson (CMR- Perth, Western Australia) whose experience obtained from construction and operation of the “Briggs” type of boilers over a number of years has provided much necessary data. The assistance received from S L N Childs and G H Sturday in carrying out stress calculations and general design work was appreciated.

The 1987 revised code (Issue 3) was prepared by the AMBSC Committee of:

Chairman	J L Hyde
Honorary Secretary	D H Merrifield CEng, MIMechE, MIE (Aust)
Technical Representative	G H Sturday – C Eng, MIE (Aust)

The 1995 revised code (Issue 4) was prepared by the AMBSC Committee of:

Chairman	E J Evans
Honorary Secretary	D H Merrifield CEng, MIMechE, MIE (Aust)
Assistant Secretary	E B Day – MWTIA JP
Technical Representative	A R Forsyth

The original AMBSC Code Part 2 was written and compiled by R V Wood – C Eng, FIPE and covered “BRIGGS” type stayless steel boilers only. This revision has extended the scope of the code to include boilers of the locomotive type, and others. Additional assistance was obtained from Brian Oldfield (Morphett Vale Railway Society, South Australia) in carrying out stress calculations, general design work and editing concerning locomotive type boilers is much appreciated. Acknowledgement was also made to a number of (unnamed) well known and respected members of the hobby of Model Engineering in Australia.

The drawings and tables were prepared by P Manning (SA) and R Forsyth (NSW).

The 2012 revised code (Issue 5) was prepared by the AMBSC Committee of:

Chairman	B Potter
Secretary	L Irwin

This edition was edited and updated by A Matthews, with final review by L Irwin and E Evans.

4.3 Sub Miniature Code

In March 2001, members of the "Rails in the Garden" model railway group met with representatives of the AALS and the AMBSC to discuss the relevance or applicability of the existing AMBSC Boiler Codes to their smaller 'garden gauge' models. It was acknowledged that the existing codes were developed to cover the sizes of locos intended for operations on 2½" gauge and above and that smaller models were generally considered (at the time of drafting the Codes) to be in the toy category and were not intended to be covered by the Codes.

The meeting agreed there was now a requirement for a Code Part 3 to cover the smaller sized boilers, given the proliferation of interest in live steam garden railways and boat models. The Rails in the Garden group offered to take on the process of developing a suitable document.

The "Rails in the Garden Boiler Standard, Issue 4 – 2003" was used as the starting document. It had been developed utilising standards previously adopted by the Association of 16mm Narrow Gauge Modellers (UK), The Gauge One Model Railway Association (UK), the Australian Miniature Boiler Safety Committee (AMBSC), Rails in the Garden (RitG) and other published data.

The subsequent development of the Code Part 3 was undertaken and lead by Michael Ragg of RitG. Michael sent out the proposed Code for discussion to numerous Australian and overseas manufacturers. Each significant revision was published via the Internet for further comment by groups or individuals and this was forthcoming.

Groups who offered input included:

Australian Miniature Boiler Safety Committee
AMRA Western Australian Branch
AMRA Queensland Branch

Model Boat Club of NSW
Rails in the Garden Inc

Manufacturers who offered input included:

Gordon Watson (Argyle Locomotives)
Paul Trevaskis (Rishon Locomotive Works)

Mike Chaney (UK)

Individuals who offered input included:

John Mann
Gary Warton
John Dewar
Paul Trevaskis

Andrew House
Jim Gregg
Steve Malone

The final working party for the Code as presented to AMBSC for adoption and submission to Workcover NSW were:

Ian Kirby (AMBSC)
David Merrifield (AMBSC)
Barry Glover (AALS)

Michael Ragg (RitG)
Andrew House (RitG)
Stephen Cox (RitG)

4.4 Duplex Steel Code

The Duplex Steel code (Part 4) was developed to take advantage in the development of improved materials suitable for boiler construction. In January 2011 initial approval was received from Workcover NSW. At the time of publishing this document acceptance from other states is in progress.

This code has been compiled by the sub-committee appointed at the 2008 Annual General Meeting of the Australian Miniature Boiler Safety Committee.

The Committee consisted of:

Chairman:	Les Irwin
Hon. Secretary	Frank Tynan
Drawings by	Martin Greaves and Peter Manning

AALS Technical Contribution

Central Coast	Lyndsay Brack	Pressure Welding Instructor
Penwood	Peter Glover	Engineering Company Director
Castledare	Dr. Richard Stuart	Oil and Gas Pipeline Engineer

External Technical Consultation

Metallurgists	Dr Ian Ward Robert Brunton BSc William J McEwan	Sandvik University of NSW Diploma Applied Chemistry Diploma Secondary Metallurgy
Welding Engineer	Kurt Staub	Sandvik

5. HISTORICAL NOTES on the Codes of Practice

5.1 1995 Issue 1

The first Code of Practice for Operation of Miniature Railways, Road Vehicles and Plant was compiled by the AALS in April 1995. Acknowledgement was made of the assistance of the AALS (Victorian Branch) Standards and Safety Sub-Committee, Hornsby and District Model Engineering Society and NDMES Perth in the compilation of the code.

The 1995 committee consisted of:

National President	B. Glover RFD, ED
National Vice President	J. Wakefield
National Secretary / Treasurer	L. Heaton
National Insurance Officer	N. Cram
Hon. Secretary AMBSC	D. Merrifield C.Eng, MIMECH, MIE (Aust)
President AALS (Vic. Branch)	J.A.M.Hill Ch Eng FIME
AALS Representative (NSW)	R. Bishop-Wear

Thirty two (32) amendments were made up to 1997.

5.2 1998 Issue 2

Reprinted in 1998 to improve readability, correct and update the text to include up to amendment No 35 and changes made at April 1998 conventions.

The 1998 committee consisted of:

B. Glover, RFD, ED	National President.
J. Wakefield	National Vice President.
P. Manning, C.Eng., MIMechE, (London)	National Secretary.
F. Clark	National Treasurer.
M. Watkins, Dip.Sci Oh&S Wtia As1796 & 2214 Cert.10	Hon. Secretary AMBSC.
R. Bishop-Wear	NSW Representative.
D. Baker	WA Representative.
K. Brown	VIC. Representative.

Four amendments were made up to April 1998 for which new pages were issued incorporating the amendments.

Following this a further nine (9) amendments were made up to July 2009.

5.3 Code of Practice for Training of Operators of Miniature Railways, Road Vehicles and Plant.

Issue 2 of this document was also reprinted in 1998 to include up to amendment 19 as issued in April 1996.

The 1998 committee consisted of:

B. Glover, RFD, ED	National President.
J. Wakefield	National Vice President.
P. Manning, C.Eng., Mimeche, (London)	National Secretary.
F. Clark	National Treasurer.
M. Watkins, Dip.Sci Oh&S Wtia As1796 & 2214 Cert.10	Hon. Secretary AMBSC.
A. Maccaskill	Hon. Secretary ALSSC
R. Bishop-Wear	NSW Representative.
D. Baker	WA Representative.
K. Brown	VIC. Representative.

5.4 2009 Codes of Practice

As a result of further amendments made at the 2009 AGM, and comments made during a process of formal consultation with Societies, the Code of Practice was completely revised and reformatted in 2009 for adoption at the 2010 AGM. The document was split into three separate codes of practice. These are:

- Operation of Miniature Railways, Road Vehicles and Plant
- Training of Operators and Attendants of Miniature Railways, Road Vehicles and Plant.
- Standards for the Interoperability and Safety of Miniature Railways, Road Vehicles and Plant.

Additionally a fourth document (this document) containing reference documentation was produced. This document is a control document for all AALS formally authorised standards, lists AMBSC Codes and the names of affiliated societies, and also captures revision and historical information that cannot be perpetuated within the codes themselves.

The 2009 working group that carried out this work were:

W Allison	Chairman ALSSC
M Murray	Sydney Live Steam Locomotive Society
D Archibald	Sydney Society of Model Engineers

The 2009 committee consisted of:

R. Kershaw	National President.
J. Wakefield	National Vice President.
H. Elsol	National Secretary.
R. Walker	National Treasurer.
B. Potter	Chairman AMBSC
A. Cox	Hon. Secretary AMBSC.
B. Dickinson	Technical Representative AMBSC
W. Allison	Chairman ALSSC
A. Grigg	Hon. Secretary ALSSC
J. Wakeham	NSW Representative.
R. Stuart	WA Representative.
R. Cox	VIC Representative.
D. Hutchison	Qld (South) Representative
L. Fielder	Qld (North) Representative
P. Lawson	Tasmanian Representative
P. Manning	SA Representative

These codes were officially accepted and first published with a date of 14 April 2010. Amendments were made at the 2011 AGM to the Operation, Standards and the reference documents. An amendment to the Standards code was made at the 2012 AGM.

Further minor amendments to both the Standards and Operations codes were made in 2013.

5.5 Code of Practice Gas Firing of AMBSC Boilers.

As a result of requests from member societies a code was prepared for the use of LPG for the firing of AMBSC boilers.

The 2011 working group that carried out this work were:

W Allison Chairman ALSSC
B Carter Sydney Live Steam Locomotive Society

The code was adopted at the convention in Adelaide on 7 April 2012.

5.6 Code of Practice Gas Firing for Small Models.

With the increasing popularity of O gauge and 1 gauge live steam engines, and live steam watercraft using butane as a fuel, a code was required to cover the pressure aspects of the butane container and the otherwise safe operation of this fuel.

The 2015 working group that carried out this work were:

W Allison Chairman ALSSC
B Carter Sydney Live Steam Locomotive Society
A Wallace (Design Verifier) South Australian Society of Model Engineers.

Acknowledgement is made of the input by Rails in the Garden through their representative John Martin.

The code was adopted at the convention in Cobden in 2016.

6. AALS Office Bearers

6.1 National President

Barry Glover	1983 - 2009	Illawarra Live Steamers
Roger Kershaw	2009 - 2012	Orange Model Engineers
David Proctor	2012 – current	Orange Model Engineers

6.2 National Secretary / Treasurer

Ken Tinkler	1975 - 1984	Steam Locomotive Society of Victoria
Ross Edmondson	1984 - 1987	Illawarra Live Steamers
Andrew Rogers	1987 - 1990	Diamond Valley Railway
Len Heaton	1990 - 1996	Mackay Society of Model Engineers
Frank Clark	1996 - 1996(Sept)	Steam Locomotive Society of Victoria

This position was split into separate Secretary and Treasurer positions in 1997.

6.3 National Secretary

Peter Manning	1996 - 2005	Adelaide Miniature Steam Railway Society
Hugh Elsol	2005 - 2014 (Aug)	Queensland Society of Model and Experimental Engineers
Linda Hall	2014 - current	Gippsland Model Engineering Society

6.4 National Vice President

Eric Evans	1983 - 1986	Queensland Society of Model and Experimental Engineers
John Wakefield	1986 - 2010	Adelaide Miniature Steam Railway Society
Ray Hall	2010 – current	Penfield Model Engineers Society Ltd

6.5 National Treasurer

Frank Clark	1996 - 2001	Steam Locomotive Society of Victoria
Ross Walker	2001 - 2012	Campaspe Valley Miniature Railway
Ben DeGabriel	2012 – current	Wagga Wagga Society of Model Engineers Inc

6.6 Company Secretary

Ross Walker	2002 – 2014	Campaspe Valley Miniature Railway (NB Company Secretary was part of the Treasurers role since incorporation.)
Wayne Roberts	2014 – current	Tullamarine Live Steam Society

7. Australian Miniature Boiler Safety Committee

7.1 Chairman

Cec Gunning	1966 - 1983	Sydney Live Steam Locomotive Society
Jim Hyde	1983 - 1986	Sydney Live Steam Locomotive Society
Eric Evans	1986 - 1998	Queensland Society of Model & Experimental Engineers
Ian Kirby	1998 - 2009	Illawarra Live Steamers
Barry Potter	2009 - 2014 (Nov)	Orange Model Engineers
John Auty	2014(Nov) - 2015	Steam Locomotive Society of Victoria
Barry Glover	2015 - current	Illawarra Live Steamers

7.2 Secretary

Reginald V Wood	1966 - 1980	Sydney Live Steam Locomotive Society
David Merrifield	1980 - 1997	Illawarra Live Steamers
Mark Watkins	1997 - 1999	Steam Locomotive Society of Victoria
David Merrifield	1999 - 2008	Illawarra Live Steamers
Adrian Cox	2008 - 2010	Altona Miniature Railway
Les Irwin	2011 - 2015	Penwood Miniature Railway
David Thomas	2016 - current	Sydney Live Steam Locomotive Society

7.3 Technical Representative

Stan Childs	1966 - 1982	Sydney Live Steam Locomotive Society
Graham Sturdy	1982 - 1983	Illawarra Live Steamers
Bob Sanderson	1984 - 1994	Hornsby Model Engineers
Ross Forsyth	1994 - 2001	Hornsby Model Engineers
Bernie Dickinson	2007 - 2013	(This position was abolished in 2013)

8. Australian Live Steamers Safety Committee

8.1 Chairman

Doug Baker	2005 - 2006	Northern District Model Engineers
Roger Kershaw	2006 - 2009	Orange Society of Model Engineers
Warwick Allison	2009 - 2016	Sydney Live Steam Locomotive Society

8.2 Secretary

Ken Belcher	2000 - 2006	Castledare Miniature Railway
Alf Grigg	2006 - current	Campaspe Valley Miniature Railway

Originally known as the Australian Miniature Safety, Training and Operating Committee, it was renamed to the current title in 1997.

9. Insurance Officers

Ron Banath	1983 - 1986	Steam Locomotive Society of Victoria
Neil Cram	1986 - 1997	Blue Mountains Railway Society
Len Heaton	1997 - 1999	Mackay Society of Model Engineers
Barry Glover	1999 - 2006	Illawarra Live Steamers
Dennis Hamilton	2006 - current	Illawarra Live Steamers

10. Life Members

Under clause 7.10 of the Constitution.

	Date Conferred
Barry Glover	2009
Len Heaton	2012
Peter Manning	2012
John Wakefield	2012
David Merrifield	2012
Eric Evans	2012
Ian Kirby	2012

11. AMENDMENT HISTORY of this document

- 11.1 2010 – Original issue version dated 14 April 2010.
- 11.2 2011 – Version dated 1 May 2011. The following new clubs were added: Highlands Miniature Railway Inc, NSW; Model Engineers and Live Steamers Highfields Inc, Queensland; Edward River Steam Railway Inc, NSW; Hamilton Model Railway Group Inc, Victoria. Codes of Practice version dates updated. AMBSC Secretary changed. Section 4.4 Duplex Steel Boilers and Section 10 added.
- 11.3 2011- Version dated 23 October 2011. Ridge Narrow Gauge Railway no longer affiliated with AMBSC. AMBSC code V2B allocated to Moira Mini Rail.
- 11.4 2012 – Version dated 7 April 2012. Gas Code added; Code of Practice for Interoperability and Standards updated version; President and Treasurer changed; Company Secretary added.
- 11.5 2012 – Version dated 26 April 2012. Boiler Code Part 2 updated, Guidance letter on water treatment added, Gisborne Club removed.
- 11.6 2012 – Version dated 12 May; Life member list added.
- 11.7 2012 – Version dated 8 July; Updated for Copper Code issue 8.
- 11.8 2012 - Version dated 14 October; AMBSC code list updated for Pioneer Dairy Steam Railway Inc, Highlands Miniature Railway Inc, Edward River Society of Model Engineers Inc, Model Engineers & Live Steamers Highfields Inc, Copper Coast Region Old Machinery & Engineering Club, Hamilton Model Railway Group Inc.
- 11.9 2013 - Version dated 4 April 2013; Versions of the Standards and Operations codes updated. Affiliated list updated for Gisborne Vintage Machinery Society (Vic) and Beaconsfield Miniature Railway and Model Club Inc (Tas). Technical representative position abolished.
- 11.10 2014 - Version dated 10 May 2014; Removed Pioneer Steam Dairy (NSW), Company Secretary & office changed.
- 11.11 2014 - Version dated 07 July 2014; Version of the Standards code changed.
- 11.12 2014 - Version dated 13 July 2014; AMBSC Code Part 3 was 2008 corrected to 2006.
- 11.13 2014 - Version dated 24 July 2014; AALS Secretary resignation updated.
- 11.14 2015 - Version dated 15 April 2015; Secretary, AMBSC Chairman positions updated. Model WH&S guideline included, North Western Model Engineers (NSW) included.
- 11.15 2016 - Version dated 1 April 2016; Secretary AMBSC, Chairman ALSSC positions updated. Training Code updated, New CoP Gas Firing for Small Models included. Victorian Miniature Railway included.