

The EXAMINATION & TESTING of MINIATURE STEAM BOILERS

Boiler Test Code Review

Comments received by the Model Engineering Liaison Group during the period September 2011 to December 2011 together with the Group's responses

The comments received have been summarised identifying the principal point being made. The batch numbers and page numbers in the second column of the question/query section refer to the master copy of comments received.

Any queries, or any requests for further clarification, should be made via either the 7¼ Gauge Society, the Midland Federation of Model Engineering Societies, the Northern Association of Model Engineers or the Southern Federation of Model Engineering Societies as appropriate.

Boiler Construction/Design

1.	Batch 1 Page 46/47 01.Nigel Trafford-Jones	Boiler construction requirements, material certificates, weld samples etc
This topic is actually associated with boiler design and construction and not a boiler test code but see Boiler Test Code 2012 paragraphs 5.1 to 5.4, 6.2 and 7.4 and for reference to weld samples see Boiler Test Code 2012 paragraph 6.3		
2.	Batch 2 Page 1 Para 3. Royston & District	Introduce record sheet for new build of boilers
Some Clubs/Societies do this already – see Boiler Test Code 2012 Paragraph 5.4		
3.	Batch 2 Page 17 Para 4. Saffron Walden	Suggest use of record sheet by member building new boiler
Some Clubs/Societies do this already - see Boiler Test Code 2012 Paragraph 5.4		
4.	Batch 2 Page 25 Para 7. Royston	Suggested record sheet for new boiler build
Some Clubs/Societies do this already – see Boiler Test Code 2012 Paragraph 5.4		
5.	Batch 2 Page 1 Para 4. Royston & District	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		

6.	Batch 1 Page 64 09.ME letters page	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
7.	Batch 3 Page 30. Clive Young of Romney Marsh	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
8.	Batch 3 Page 41. Jon Mottershaw of Colchester	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
9.	Batch 4 Page 82 Para 10 & Page 83. Malden	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
10.	Batch 1 Page 66 11 Doug Rundle	Include a boiler design code
A Boiler Design Code is a separate subject from the Boiler Test Code and may be produced some time in the future.		
11.	Batch 1 Page 74 17 Duncan Webster	Boiler Design Code (inc reference to Australian Code)
A Boiler Design Code is a separate subject from the Boiler Test Code and may be produced some time in the future.		
12.	Batch 2 Page 3 Para 5. Oxford	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
13.	Batch 2 Page 4 Para 3. South W & Severnside	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		

14.	Batch 3 Page 32. Robert Walker of Malden	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
15.	Batch 3 Page 33. John Bayes of Winchester	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
16.	Batch 4 Page 86 Para 4 SMEE	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
17.	Batch 5 Page 105 Para 1 Stafford & Dist MES	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
18.	Batch 5 Page 112 Para 2/4 City of Oxford SME	Water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
19.	Batch 5 Page 131 Para 5 MSRVS	Page 18 – water gauge paragraph
The paragraph has been rewritten - see Boiler Test Code 2012 paragraph 6.8		
20.	Batch 2 Page 7 Para 2. North Wales	Why is the design of a safety valve not a criterion for a new boiler
A Boiler Design Code is a separate subject from the Boiler Test Code and may be produced some time in the future. Components may be included in a Boiler Design Code as well as the design of the boiler shell.		
21.	Batch 2 Page 10 Para 7. Leyland	Copper material specification
This query is really a subject for a Boiler Design Code but see Boiler Test Code 2012 paragraph 7.4		
22.	Batch 2 Page 12 Paras 1 to 4. Rochdale	Inspection during construction
See Boiler Test Code 2012 paragraphs 6.2 and 7.4		
23.	Batch 2 Page 12 Para 5. Rochdale	Clause 4 and published design verification – there should be some check on acceptability of design
See Boiler Test Code 2012 paragraphs 5.1 to 5.4 and 7.4		
24.	Batch 2 Page 12 Para 6. Rochdale	Clause 6.1 who recognises a commercial boilermaker
Comments accepted. Commercial boilermakers are however subject to the full force of the Pressure Equipment Regulations		

25.	Batch 2 Page 14 Para 5. Urmston	Re appendix A – what weld sample tests are required
See Boiler Test Code 2012 paragraph 6.3		

26.	Batch 5 Page 103 Para 2 Steve Larnar	Who has reviewed/approved the designs published in the ME press
Not known – see Boiler Test Code 2012 paragraphs 5.1 to 5.4 and 7.4		

27.	Batch 5 Page 103 Para 4 Steve Larnar	Design calculations
See boiler Test Code 2012 paragraphs 5.1 to 5.4 and 7.4		

Boiler Inspectors' Responsibility

28.	Batch 3 Page 29. Clive Young of Romney Marsh	Responsibility for checking design integrity
Boiler inspectors are, and always have been, responsible for design and design calculation verification – see Boiler Test Code 2012 paragraphs 5.1 to 5.4 and 7.4. Boiler Inspectors should only work within their capabilities see Boiler Test Code 2012 paragraph 3.9c		

29.	Batch 3 Page 34/35. John Bayes Winchester	There is more responsibility being placed on the boiler tester and first rate documentation is required
The responsibility placed on boiler inspectors has not changed, it is now no more than it has been in the past. It is hoped that the new documents will meet the request for 'first rate documentation'.		

30.	Batch 4 Page 93 East Somerset	Boiler inspectors knowledge needs improving - more seminars and/or discussions needed
Agreed. It is hoped that Boiler Test Code 2012 and the redesigned certification will make life easier for the inexperienced boiler inspector.		

Boiler Test Code Application/Parameters

31.	Batch 2 Page 4 Para 1. Isle of Wight	Include boilers of boats and launches capable of carrying persons providing within bar litre limitations
The Boiler Test Code 2012 extends to include boilers, not exceeding 1100 bar litres, in a steam powered model or a steam powered boat, see Boiler Test Code 2012 paragraphs 2.5, 4.2, 4.3 and 4.4. It should be noted that flash steam boilers, drum boilers (as fitted to steam cars, not in association with water tubes) and coil boilers are specifically excluded from Boiler Test Code 2012, see Boiler Test Code 2012 paragraph 2.6.		

32.	Batch 2 Page 6 Para 5. Unknown	Include boilers of 12in to the foot – boats and steam cars
The Boiler Test Code 2012 extends to include boilers, not exceeding 1100 bar litres, in a steam powered model or a steam powered boat, see Boiler Test Code 2012 paragraphs 2.5, 4.2, 4.3 and 4.4. It should be noted that flash steam boilers, drum boilers (as fitted to steam cars, not in association with water tubes) and coil boilers are specifically excluded from Boiler Test Code 2012, see Boiler Test Code 2012 paragraph 2.6.		

33.	Batch 5 Pages 100/101 Steam Boat Association	Extend code to include boilers in full size steam boats
The Boiler Test Code 2012 extends to include boilers, not exceeding 1100 bar litres, in a steam powered model or a steam powered boat, see Boiler Test Code 2012 paragraphs 2.5, 4.2, 4.3 and 4.4. It should be noted that flash steam boilers, drum boilers (as fitted to steam cars, not in association with water tubes) and coil boilers are specifically excluded from Boiler Test Code 2012, see Boiler Test Code 2012 paragraph 2.6.		
34.	Batch 5 Page 114 City of Sunderland MES	Size of boilers that can be tested
The Boiler Test Code 2012 extends to include boilers, not exceeding 1100 bar litres, in a steam powered model or a steam powered boat, see Boiler Test Code 2012 paragraphs 2.5, 4.2, 4.3 and 4.4. It should be noted that flash steam boilers, drum boilers (as fitted to steam cars, not in association with water tubes) and coil boilers are specifically excluded from Boiler Test Code 2012, see Boiler Test Code 2012 paragraph 2.6.		
35.	Batch 2 Page 6 Para 6. North Wales	Re paragraph 3.9 in addition to 3.8 an inspector should
The words should, shall and ensure have been rationalised.		
36.	Batch 2 Page 6 Para 7. North Wales	Should there be an appeals procedure?
After discussion it was decided that an appeals procedure was not appropriate		
37.	Batch 2 Page 10 Para 3. Leyland	Re 1.1.3 – Do the Pressure Systems Safety Regulations 2000 apply?
Yes – if the Health & Safety at Work Act applies		
38.	Batch 2 Page 10 Para 4. Leyland	Re 2.6 How many boiler inspectors have theoretical knowledge and can prove a design by calculation?
Not known – such information is not available		
39.	Batch 4 Page 81 Malden	Safety valve & design pressure/working pressure
Definitions have been amended – see Boiler Test Code 2012 paragraphs 3.5 and 3.6		
40.	Batch 4 Page 86 Para 3. SMEE	Re para 10.4 size of boiler and two independent means of water feed
There will, at this time, be no change to basic parameters		
41.	Batch 4 Page 87 Para 4. & pg 88 Romney Marsh	Re 5.4 – clarification required re new CE marked boilers
Clarification data on CE marking is contained in a number of Information Sheets issued by the Southern Federation and/or Northern Association. CE marking is not within the remit of the Boiler Test Code 2012 which is concerned with Pressure Systems Safety Regulations 2000. CE marking is a manufacturing requirement and is associated with the Pressure Equipment Regulations 1999. A boiler which should have CE approval/markings but in fact does not is in contravention of the PER and must not be tested or used		

42.	Batch 4 Page 90 Com 5 South Cheshire	Explanation of CE mark & reason for prohibiting testing of non CE marked boilers
Clarification data on CE marking is contained in a number of Information Sheets issued by the Federations and/or Associations. CE marking is not within the remit of the Boiler Test Code 2012 which is concerned with Pressure Systems Safety Regulations 2000. CE marking is a manufacturing requirement and is associated with the Pressure Equipment Regulations 1999. A boiler which should have CE approval/markings but in fact does not is in contravention of the PER and must not be tested or used.		
43.	Batch 4 Page 90 Com 1 South Cheshire	In 'introduction' delete the word normally
If the Health & Safety at Work Act applies the Pressure Systems Safety Regulations 2000 apply and therefore the word normally must remain.		
44.	Batch 4 Page 90 Com 2 South Cheshire	In 1.1 delete paragraph 3 and re-word paragraph 4
If the Health & Safety at Work Act applies the Pressure Systems Safety Regulations 2000 apply also see Boiler Test Code 2012 paragraph 2.4		
45.	Batch 4 Page 90 Com 3 South Cheshire	Delete paragraph 2.7 as witness not needed
See Boiler Test Code 2012 paragraphs 3.9f and 3.10		
46.	Batch 4 Page 90 Com 4 South Cheshire	Suggested re-word for 3.10 refusal to test a boiler
See Boiler Test Code 2012 paragraphs 4.7 and 4.8 and 4.9		
47.	Batch 5 Page 104 Stafford & Dist MES	Where do you record 'refusal of test'
See Boiler Test Code 2012 paragraphs 4.7 and 4.8 and 4.9		
48.	Batch 4 Page 90 Com 6 South Cheshire	In 5.7 marking of boilers add 'see paragraph 7.10'
Text and configuration has been amended - see Boiler Test Code 2012 paragraph 7.7 and paragraph 8.3		
49.	Batch 4 Page 90 Com 7 South Cheshire	How do Boiler Inspectors identify a valid notified body?
Details can be supplied by the Department for Business Innovation and Skills, 1 Victoria Street, London SW1H 0ET tel 020 7215 5000 (www.bis.gov.uk) or contact your Association or Federation		
50.	Batch 4 Page 91 Com 3&4 South Cheshire	Re-word 11.5 (periodicity) and add a further paragraph
Wording has been clarified – see Boiler Test Code 2012 paragraph 12.5		
51.	Batch 4 Page 94 Para 6 Steam Itinerants	Confirmation that the Test Code requirements are not retrospective
Boiler Test Code 2012 is not retrospective, see Boiler Test Code 2012 paragraph 4.1		

52.	Batch 5 Page 103 Para 1 Steve Larner	Club does not hold own insurance but believes that it can issue certificates under the Southern Federation insurance umbrella
Clubs and Societies must arrange their own insurance – there is no umbrella arrangement		
53.	Batch 5 Page 107 Para 1 Guildford MES	Code should be more user friendly – in need of reorganisation
Boiler Test Code 2012 is a complete rewrite and, it is hoped, less ambiguous and more user friendly		
54.	Batch 5 Page 109 Para 2 North Wilts MES	Examined hot and examined cold are ambiguous
Boiler Test Code 2012 is a complete rewrite and, it is hoped, less ambiguous and more user friendly		
55	Batch 5 Page 109 Para 3 North Wilts MES	Suggest a check list is used and then retained by boiler owner
The way Boiler Test Code 2012 has been written it can easily be adapted by boiler inspectors to form a check list with their requirements		
56.	Batch 5 Page 111 Para 1 City of Oxford SME	Re 2.7 witness should be neither owner nor maker
The witness cannot be the owner but the maker is acceptable – see Boiler Test Code 2012 paragraph 3.10 also paragraph 3.9f		
57.	Batch 5 Page 111 Para 2 City of Oxford SME	Clarify modification re drilling holes in traction engine boiler
See Boiler Test Code 2012 paragraph 7.6 and 8.4		
58.	Batch 5 Page 111 Para 5 City of Oxford SME	Re 11.3 bullet points for date of steam test & safety valve set pressure should not be there as they do not appear on the hydraulic certificate.
Certification has been amended and Regulation 9 paragraph 144 of the Pressure Equipment Safety Regulations 2000 sets out what must appear on a certificate, see Boiler Test Code 2012 paragraph 12.3		
59.	Batch 5 Page 111 Para 6 City of Oxford SME	Re 11.5 a reminder is required re expiry of hydraulic is not exceeded when issuing steam certificate
Agreed - see Boiler Test Code 2012 paragraph 12.5		
60.	Batch 5 Page 111 Para 7 City of Oxford SME	Re 12.5 – should read ‘this is particularly important’
Agreed - see Boiler Test Code 2012 paragraph 13.5		
61.	Batch 5 Page 111 Para 8 City of Oxford SME	Re Appendix A which refers to TIG welding – should state current definition TAGS
This topic is actually associated with boiler design and construction and not a boiler test code but see Boiler Test Code 2012 paragraph 6.3		

62.	Batch 5 Page 112 Para 1 City of Oxford SME	Re Appendix B – ‘inspectors may wish to consider’ is too weak, needs to be stronger
Appendix B has been deleted and incorporated in to Boiler Test Code 2012 – see Sections 7 to 11		
63.	Batch 5 Page 112 Para 5 City of Oxford SME	Re page 21 ‘safety Valves’ add ‘preferably’ before locked and add a paragraph
Statement has been re-written - see Boiler Test Code 2012 paragraph 11.9		
64.	Batch 5 Page 133 Para 7 Fareham & Dist SME	Safety valves do not lend themselves to locking by non destructive methods
See Boiler Test Code 2012 paragraph 11.9		
65.	Batch 5 Page 113 Para 2 High Wycombe MEC	Ambiguity re commercial and non commercial requirements re new private built boilers
See Boiler Test Code 2012 Sections 6, 7 and 8		
66.	Batch 5 Page 113 Para 3 High Wycombe MEC	Suggest that commercial and private built boiler test procedures are separated
See Boiler Test Code 2012 Sections 6, 7 and 8		
67.	Batch 5 Page 116 Para 7 Peter Bolderston	Are flash steam boilers included?
No, flash steam boilers are specifically excluded from Boiler Test Code 2012 , see paragraph 2.6		
68.	Batch 5 Page 117 Para 8 Peter Bolderston	Why don't boiler sizes follow Pressure Equipment Regulations (PER)?
The Pressure Equipment Regulations are concerned with boiler manufacture whereas the Boiler Test Code 2012 is concerned not with manufacture but with testing.		
69.	Batch 5 Page 117 Para 9 Peter Bolderston	Re 5.1- consider adding a definition of commercially
Wording amended - see Boiler Test Code 2012 paragraphs 6.3 and 6.4		
70.	Batch 5 Page 117 Para 10 Peter Bolderston	Re 5.4 & material certificates what is ‘where appropriate’
Wording amended - see Boiler Test Code 2012 paragraph 7.4		
71.	Batch 5 Page 118 Para 16 Peter Bolderston	Re 11.8 A record of the boiler's history
See Boiler Test Code 2012 paragraphs 12.7 and 12.8		
72.	Batch 5 Page 128 Para 2 Stockholes Farm MR	Any changes should not be retrospective
Agreed - any changes will not be retrospective, see Boiler Test Code 2012 paragraph 4.1		

73.	Batch 5 Page 128 Para 2 Stockholes Farm MR	Code should specify what must be done but leave boiler testers to decide how to achieve
Boiler Test Code 2012 is descriptive in order to guide all boiler inspectors in to a common approach.		

74.	Batch 5 Page 128 Para 5 Stockholes Farm MR	When revised edition is issued include details of all changes made
Unfortunately this is not possible as the whole document has been rewritten		

75.	Batch 5 Page 131 Para 2/3/4 MSRVS	Include a resume of legislation requirements etc
Clarification data on CE marking is contained in a number of Information Sheets issued by the Southern Federation and/or Northern Association. CE marking is not within the remit of the Boiler Test Code 2012 which is concerned with Pressure Systems Safety Regulations 2000. CE marking is a manufacturing requirement and is associated with the Pressure Equipment Regulations 1999. A boiler which should have CE approval/markings but in fact does not is in contravention of the PER and must not be tested or used		

Certificates/Documentation

76.	Batch 1 Page 51 05. John Baguley	Transferability of certificates
The boiler certificates attach to the boiler and should be handed to any new owner in the same way that an MOT certificate is handed to the new owner of a car – see Boiler Test Code 2012 paragraph 12.8. The boiler certificate remains valid providing the new owner complies with Boiler Test Code 2012 paragraph 2.1. The new owner of the boiler will however need a new Written Scheme of Examination.		

77.	Batch 1 Page 76 19. B Gasson Tonbridge	Expiry date of commercial boiler makers certificate and providing duplicate certificates
Manufacturers' initial (Shell) tests are valid for life but some manufacturers do put an expiry date on their certificates for the end of a guarantee period – see Boiler Test Code 2012 paragraphs 8.1 to 8.4. Pressure system certificates are valid only for the periods indicated on the certificates – see Boiler Test Code 2012 paragraph 12.5. Duplicate certificates can be issued – see Boiler Test Code 2012 paragraph 12.8.		

78.	Batch 5 Page 113 Para 1 High Wycombe MEC	Confusion re certificates issued with new commercially built boilers
Manufacturers' initial (Shell) tests are valid for life but some manufacturers put an expiry date on their certificates for the end of a guarantee period – see Boiler Test Code 2012 paragraphs 8.1 to 8.4. Pressure system certificates are valid only for the periods indicated on the certificates		

79.	Batch 1 Page 75 18. Alan Reid	Amend Documentation (tear off slip)
Certification has been amended		

80.	Batch 2 Page 1 Para 7. Bedford	Pre number hydraulic tear off slip and an extra certificate to evidence examination during construction
Certification has been amended		

81.	Batch 1 Page 67 12.Peter Gardner of Frimley & Ascot	Revamp Certificates/Documentation
Certification has been amended		
82.	Batch 2 Page 1 Paras 9/11. Frimley & Ascot	Paperwork is longwinded and repetitious and some entries can be interpreted ambiguously
Certification has been amended		
83.	Batch 3 Page 40. Peter Gardner of Frimley & Ascot	How is it recommended that paperwork is applied in the case of club owned locomotives
A boiler inspector may test the boiler on a club loco provided he was not the builder of the boiler and provided that he has not carried out any subsequent work or repairs on the boiler. The certificate should be issued in the name of the club/society.		
84.	Batch 2 Page 1 Para 12. Frimley & Ascot	Boiler Test Record Card
Boiler Test Record Cards are not mandatory. If used the card entry should give a specific date if it is available (previous documentation) or a fair estimate if no definitive data is available. When the existing stock of Cards is exhausted it is not intended to re-print.		
85.	Batch 5 Page 110 Para 2 Warrington & D MEs	Is blue card needed?
No, Boiler Test Record Cards are not mandatory - but the blue card can still be used as it contains a record of information not stored elsewhere. When the existing stock of Cards is exhausted it is not intended to re-print.		
86.	Batch 2 Page 2 Paras 2 & 3. Frimley & Ascot	Include example of how to complete certificates plus provide a sequential checklist of items to check during test
The certificate pads contain a sheet giving instructions for the completion and distribution		
87.	Batch 2 Page 3 Para 2. Fareham	Boiler certificate disposal
There is no definitive answer as to how long records are to be retained. Industry norm would appear to be 10 years – it is up to each club/society to decide on their procedure.		
88.	Batch 2 Page 4 Para 2. SW & Severnside	Clumsy and ill considered and time consuming paperwork makes impossible demands on volunteer's time
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		
89.	Batch 2 Page 4 Para 6. Worthing	Duplication on hydraulic certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		

90.	Batch 2 Page 4 Para 7. Worthing	Description of model should be on steam certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate. A description of the model is included.		
91.	Batch 2 Page 5 Para 9. Welling	Description of model should be on steam certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate. A description of the model is included.		
92.	Batch 2 Page 11 Para 2. Leyland	Description of model should be on steam certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate. A description of the model is included.		
93.	Batch 4 Page 95 Para 3 Steam Itinerants	Description of model should be shown on certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate. A description of the model is included.		
94.	Batch 2 Page 4 Para 8. Worthing	Presence of a working whistle should be included on the steam certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate. Re a working whistle see Boiler Test Code 2012 paragraph 11.6		
95.	Batch 2 Page 4 Para 9. Worthing	Should be some sort of annual certificate for small boilers
See Boiler Test Code 2012 Section 14.		
96.	Batch 2 Page 5 Para 3. Frimley & Ascot	Name of boiler designer should be recorded
Owners may record the name of the boiler designer if they so wish – to be kept with the other boiler paperwork – see Boiler Test Code 2012 paragraph 12.8		
97.	Batch 4 Page 79 Freesteamers MES	Details of test gauge should be recorded on hydraulic certificate
The information does not need to be recorded on the boiler test certificate - see Boiler Test Code 2012 paragraph 12.3		
98.	Batch 4 Page 87 Para 1 Romney Marsh	Test code should be split in to several smaller booklets
As with Pressure Systems Safety Regulations 2000 it is considered better for all aspects of Boiler Test Code 2012 to be contained in one book		
99.	Batch 2 Page 5 Para 8. Welling	Return slips should include printed certificate number
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate. The copy for the Boiler Registrar does have a pre printed number		

100.	Batch 2 Page 6 Para 3. Welling	Introduce a 'combined' certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		
101.	Batch 2 Page 11 Para 3 & 4. Leyland	Re 11.8 and 11.9 – keeping of records
See Boiler Test Code 2012 paragraphs 12.7 and 12.8		
102.	Batch 2 Page 11 Para 6. Leyland	Re 12.4 keeping a record of steamings
Boiler Test Code 2012 is a Test Code. It is optional on the user whether or not to keep a record of the service use. See Boiler Test Code 2012 paragraph 13.4		
103.	Batch 2 Page 13 Para 2. Rochdale	Section 11 Certification only refers to the hydraulic certificate
Wording amended – see Boiler Test Code 2012 paragraph 12.1 to 12.8		
104.	Batch 2 Page 13 Para 5. Rochdale	Re 11.8 and 11.9 guidance needed for occasions where paperwork has been lost
If the current certificate issuer cannot be traced, and duplicate certificates issued, the boiler should be submitted for retest - see Boiler Test Code 2012 paragraph 12.8		
105.	Batch 5 Page 110 Para 1 Warrington & D MES	Combine hydraulic and steam on to one certificate
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		
106.	Batch 2 Page 14 Para 8. Urmston	Hydraulic certificate contains a lot of unnecessary information
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		
107.	Batch 2 Page 17 Para 5. Saffron Walden	When buying loco suggest tracing back the boiler certificate to check authenticity
A good suggestion and to be recommended		
108.	Batch 5 Page 106 Lincoln & Dist MES	Create a hobbywide data base of all boilers
This is already done by the boiler registrars of the Northern Association and the Southern Federation		
109.	Batch 5 Page 115 Barnsley SME	Are not the date of hydraulic test and valid from date the same
Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		

110.	Batch 5 Page 117 Para 14 Peter Bolderston	Re 11.3 & bullet re means of identifying – is this boiler or engine/vehicle the boiler is on?
It is the number stamped or engraved on the boiler – see Boiler Test Code 2012 paragraphs 7.7 and 8.3		

111.	Batch 5 Page 117 Para 15 Peter Bolderston	Re 11.3 units specified for capacity (litres) but not for pressure, are any units acceptable eg atm?
Pressure is standard practice i.e. psi and bar		

Meaning of Words Used

112.	Batch 1 Page 48 02. Peter Squire	The word ‘Ensure’ as used in the forward and purpose statements
The word has been removed from Boiler Test Code 2012.		

113.	Batch 3 Page 29. Clive Young of Romney Marsh	In 2.8 re Bar Litre replace ‘capacity’ by ‘stored energy’
See Boiler Test Code 2012 paragraph 3.11		

114.	Batch 3 Page 30. Clive Young of Romney Marsh	Definition of design pressure
Pressures used have been defined - see Boiler Test Code 2012 paragraphs 3.5 and 3.6		

115.	Batch 3 Page 32. Robert Walker of Malden	Re safety valves there is no definition of ‘set pressure’
The wording has been amended – see Boiler Test Code 2012 paragraphs 3.5, 11.8 and 11.9		

116.	Batch 3 Page 36. Jim Wilson of Guildford	The word ‘shall’ and acceptability of commercial boiler certificates in 11.7
The paragraph has been amended and the word ‘shall’ has been removed – see Boiler Test Code 2012 paragraph 12.6		

117.	Batch 2 Page 5 Para 5. Canterbury	Definition of Bar Litre
See Boiler Test Code 2012 paragraph 3.11		

118.	Batch 2 Page 7 Para 1. North Wales	Appendix B page 19 – what does relatively cool mean
Appendix B has been incorporated in to the main body of the document – see Boiler Test Code 2012 paragraph 10.4		

119.	Batch 2 Page 7 Para 3. North Wales	What is the difference between the working pressure and the design pressure
Pressures used have been defined - see Boiler Test Code 2012 paragraphs 3.5 and 3.6		

120.	Batch 2 Page 11 Para 12. Rochdale	Re clause 5.1 the word 'will' is not included in definitions
All 'wills' have been removed		
121.	Batch 2 Page 13 Para 6. Rochdale	Re reference to setting safety valves in paragraph 2.5 - modify wording
See Boiler Test Code 2012 paragraph 11.8		
122.	Batch 4 Page 82 Para 1 & 2 .Malden	How to spell bar-litre
See Boiler Test Code 2012 paragraph 3.11		
123.	Batch 4 Page 82 Para 3. Malden	Use of the words 'The Scheme' is incorrect
Use of the word 'Scheme' has been discontinued		
124.	Batch 5 Page 104 Para 2 Stafford & Dist MES	Use of the word Scheme is incorrect
Use of the word 'Scheme' has been discontinued		
125.	Batch 4 Page 82 Para 4. Malden	What is the definition of the word 'may'?
Standard English definition i.e. 'expressing possibility'		
126.	Batch 4 Page 82 Para 7/8/9. Malden	Potential contradiction in 10.5 steam accumulation test
Contradiction has been corrected - see Boiler Test Code 2012 paragraph 11.8		
127.	Batch 4 Page 87 Para 2 Romney Marsh	Definition of pressure
See Boiler Test Code 2012 paragraphs 3.5 and 3.6.		
128.	Batch 4 Page 87 Para 3 Romney Marsh	Re 2.8 quote conversions to no more than two decimal places
Standard definitions are being used - bar and psi as used in the Pressure Systems Safety Regulations 2000		
129.	Batch 4 Page 91 Com 5 South Cheshire	Re 12.3 – identify as the responsibility of the owner/operator
Corrected - see Boiler Test Code 2012 paragraph 13.3.		
130.	Batch 5 Page 104 Para 1 Stafford & Dist MES	Words 'Club/Society' not consistently used
Accepted and amended		

131.	Batch 5 Page 104 Para 2/4 Stafford & Dist MES	Words 'Inspector, Boiler Inspector, Boiler Tester' not consistently used
Accepted and amended		

132.	Batch 5 Page 107 Para 4 Guildford MES	Change from Shall to May in paragraph 6.1 commercially built boilers
Amended - see Boiler Test Code 2012 paragraphs 8.1, 8.2 and 8.3		

133.	Batch 5 Pg 116 Para 1/6 Para 17 Peter Bolderston	Various comments re grammar used and typographical errors
Every effort will be made to avoid grammatical and typographical errors		

134.	Batch 5 Page 117 Para 12 Peter Bolderston	'The Accumulation Test' is not defined
It is not defined as such (boiler inspectors should know what it is) but there is a whole section devoted to the procedure - see Boiler Test Code 2012 paragraphs 11.1 to 11.10.		

135.	Batch 5 Page 119 Para 1 Winchester MES	Employ a professional to do the re-write
The expense of employing a professional writer would be prohibitive		

Periodicity

136.	Batch 1 Page 49 03.Peter Seager	Clarification of steam test periodicity
The steam certificate shall be effective from the date of the test, no earlier and no later. It can run for a maximum period of 14 months from the date of test but not beyond the expiry date of the hydraulic certificate - see Boiler Test Code 2012 paragraphs 11.1 and 12.5		

137.	Batch 1 Page 65 10. Clive Young of Romney	Extend steam test periodicity and introduce a maximum pressure
It has been decided not to change periodicity at this time. The Boiler Test Code must be flexible and hence a maximum pressure limit cannot be introduced		

138.	Batch 1 Page 69 14. Alan Phillips	Extend periodicity for steel hydraulic to 4/6 years
It has been decided not to change periodicity at this time.		

139.	Batch 1 Page 73 16. Brian Reading	Extend steam test periodicity to 2 years
It has been decided not to change periodicity at this time.		

140.	Batch 3 Page 29 & 31. Romney Marsh	Steam test periodicity
It has been decided not to change periodicity at this time.		

141.	Batch 2 Page 2 Para 2. Frimley & Ascot	Steam test periodicity
It has been decided not to change periodicity at this time.		
142.	Batch 4 Page 84 Romford MEC	Steam test periodicity
It has been decided not to change periodicity at this time.		
143.	Batch 2 Page 15 Para 7. Manx Steam	Steam test periodicity
It has been decided not to change periodicity at this time.		
144.	Batch 2 Page 4 Para 10. Worthing	Steam test every two years
It has been decided not to change periodicity at this time.		
145.	Batch 2 Page 6 Para 2. Welling	Steam test every two years
It has been decided not to change periodicity at this time.		
146.	Batch 5 Page 107 Para 5 Guildford MES	Steam test every 24 months
It has been decided not to change periodicity at this time.		
147.	Batch 2 Page 6 Para 9. North Wales	Para 11.5 – amend to 4 years from the initial or last test
It has been decided not to change periodicity at this time.		
148.	Batch 2 Page 13 Para 8. Urmston	Re 8.1 amend calibration of test gauge to every three years
Test Houses normally expect gauges to be calibrated annually. It is a concession for our boiler test gauges to be calibrated every two years		
149.	Batch 4 Page 85 Perranporth	Periodicity – cladding removal
For all copper boilers and for steel boilers not exceeding 500 bar litres cladding removal is at the discretion of the boiler inspector – see Boiler Test Code 2012 paragraph 9.1. For steel boilers of 500 bar litres and above see Boiler Test Code 2012 paragraph 9.2		
150.	Batch 4 Page 96 Brian Hicks	Periodicity – cladding removal
For all copper boilers and for steel boilers not exceeding 500 bar litres cladding removal is at the discretion of the boiler inspector – see Boiler Test Code 2012 paragraph 9.1. For steel boilers of 500 bar litres and above see Boiler Test Code 2012 paragraph 9.2		

151.	Batch 5 Page 111 Para 3 City of Oxford SME	Para 7.1 clarification re periodicity of cladding removal
For all copper boilers and for steel boilers not exceeding 500 bar litres cladding removal is at the discretion of the boiler inspector – see Boiler Test Code 2012 paragraph 9.1. For steel boilers of 500 bar litres and above see Boiler Test Code 2012 paragraph 9.2		

152.	Batch 5 Page 132 Richard Brown COSME	clarification re periodicity of cladding removal
For all copper boilers and for steel boilers not exceeding 500 bar litres cladding removal is at the discretion of the boiler inspector – see Boiler Test Code 2012 paragraph 9.1. For steel boilers of 500 bar litres and above see Boiler Test Code 2012 paragraph 9.2		

153.	Batch 4 Page 98 John Brockley	Amend hydraulic periodicity to 10 years in line with commercial practice
It has been decided not to change periodicity at this time.		

154.	Batch 5 Page 108 Plymouth Min Steam	9.1 and 10.1 – steam test periodicity clarification required
The steam certificate shall be effective from the date of the test, no earlier and no later. It can run for a maximum period of 14 months from the date of test but not beyond the expiry date of the hydraulic certificate - see Boiler Test Code 2012 paragraphs 11.1 and 12.5		

155.	Batch 5 Page 12-0 Para 2 – Winchester MES	Amend steel hydraulic to match copper
It has been decided not to change periodicity at this time.		

156.	Batch 5 Page 124/125/ 126 - Maidstone MES	All boiler tests every two years with just one certificate
It has been decided not to change periodicity at this time. Boiler certification has been redesigned, each boiler will have its own Written Scheme plus a combined Hydraulic and Steam certificate.		

Test Procedure

157.	Batch 1 Page 50 04. Phil Hancock	How do you test a traction engine which does not have a blower
Make the engine 'work' as hard as possible during the accumulation test – see Boiler Test Code 2012 paragraph 11.8. If the boiler inspector is not satisfied that the test has suitably demonstrated the efficiency of the safety valve/valves the boiler shall be removed from service – see Boiler Test Code 2012 paragraph 11.10. Inspectors are not under any obligation to test every boiler presented for certification – see Boiler Test Code 2012 paragraph 4.7		

158.	Batch 1 Page 55/62 07.Russel Eberhardt	French system plus pdf copy
Input appreciated – very useful to compare		

159.	Batch 2 Page 17 Para 7. Saffron Walden	What is position if member or visitor has a stainless steel boiler
Boiler Test Code 2012 paragraph 4.5 precludes the testing of stainless steel boilers. There are no problems however if a member or a visitor has a stainless steel boiler and the boiler has a boiler test certificate issued by an insurance company or other commercial body.		

160.	Batch 1 Page 63 08. Derek Atford	Allow testing of stainless steel plus pressure gauge testing and testing of superheaters
Boiler Test Code 2012 paragraph 4.5 precludes the testing of stainless steel boilers. For pressure gauge testing see Boiler Test Code 2012 paragraphs 6.10, 10.2, 10.8, 11.3 and 11.7. For superheater testing see Boiler Test Code 2012 paragraphs 9.6d, 9.6e, 10.7, 10.9 and 11.4.		
161.	Batch 5 Page 108 Plymouth Min Steam	Code should include a statement of the status relating to stainless steel
Boiler Test Code 2012 paragraph 4.5 precludes the testing of stainless steel boilers. There are no problems however if a member or a visitor has a stainless steel boiler and the boiler has a boiler test certificate issued by an insurance company or other commercial body.		
162.	Batch 2 Page 14 Para 6. Urmston	Re appendix B page 18 – not possible to check superheaters
For superheater testing see Boiler Test Code 2012 paragraphs 9.6d, 9.6e, 10.7, 10.9 and 11.4		
163.	Batch 2 Page 14 Para 7. Urmston	Re page 20 Steam Testing of Boilers (All Types) re superheaters and safety valves
For superheater testing see Boiler Test Code 2012 paragraphs 9.6d, 9.6e, 10.7, 10.9 and 11.4. Safety valve paragraphs have been amended - see Boiler Test Code 2012 paragraphs 11.8 and 11.9		
164.	Batch 3 Page 11 Para 9. Leyland	How to check radiant superheaters for corrosion
For superheater testing see Boiler Test Code 2012 paragraphs 9.6d, 9.6e, 10.7, 10.9 and 11.4		
165.	Batch 1 Page 64 09.ME letters page	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
166.	Batch 2 Page 1 Para 4. Royston & District	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
167.	Batch 2 Page 11 Para 8. Leyland	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		

168.	Batch 3 Page 30. Clive Young of Romney Marsh	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
169.	Batch 3 Page 41. Jon Mottershaw - Colchester	Boiler Valves & captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
170.	Batch 5 Page 128 Para 2 Stockholes MR	Captive spindles
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
171.	Batch 5 Page 133 Para 4 Fareham & Dist SME	Captive Spindles mandatory on all new boilers & acceptable on old boilers with a recommendation that they be made captive
This requirement should not have been part of the Boiler Test Code working text and has been moved to section 6 Preliminary Requirements and Preparation for Test. The topic is actually associated with boiler design, or to be more precise, an element of design of a component in the pressure system. The text has been amended to clarify the situation – see Boiler Test Code 2012 paragraph 6.5.		
172.	Batch 1 Page 68 13. Peter Evans	Brass fittings, regular changing of gauge glasses
See Boiler Test Code 2012 paragraph 9.6f re brass fittings. The regular changing of gauge glasses is classed as maintenance and hence is outside the scope of a test procedure however see Boiler Test Code 2012 paragraph 13.3		
173.	Batch 1 page 76 19. B Gasson of Tonbridge	Query re old boiler presented for test
Covered in Design Verification and Preparation for Test – see Boiler Test Code 2012 paragraphs 5 and 6		
174.	Batch 2 Page 1 Para 2 & Para 5. Royston & District	Consult boiler tester if safety valve adjustments are required plus locking of safety valves
See Boiler Test Code 2012 paragraphs 11.8 and 11.9		
175	Batch 2 Page 5 Para 2. York	Stripping down/cleaning safety valves should invalidate steam certificate. Suggest refer to boiler tester prior to going back in service
We rely on the owner to advise the boiler inspector that the safety valve/s have been stripped down or cleaned – see Boiler Test Code 2012 paragraph 11.9		

176.	Batch 2 Page 2 Para 4 & Para 5. Frimley & Ascot	Include other safety items and also petrol locos and electric locos
Such items and locomotives are outside the remit of a Boiler Test Code		
177.	Batch 1 Page 63 08. Derek Atford	Pressure gauge testing
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
178.	Batch 2 Page 1 Para 1. Royston & District	Checking of pressure gauges
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
179.	Batch 2 Page 2 Para 6. Fareham	If FSD is less than WP+50% remove pressure gauge during hydraulic to 1.1/2 times then refit and retest to whatever the gauge FSD is
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
180.	Batch 2 Page 2 Para 7. Fareham	Pressure gauge range
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
181.	Batch 2 Page 3 Para 4. Oxford	10.3 requires correct operation of the pressure gauge shall be verified. What does this mean
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
182.	Batch 2 Page 4 Para 4. Mold	Calibration of pressure gauge
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
183.	Batch 3 Page 30/31. Young of Romney Marsh	Annual removal of pressure gauge
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
184.	Batch 3 Page 34. John Bayes of Winchester	Verifying pressure gauge prior to steaming
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
185.	Batch 5 Page 107 Para 3 Guildford MES	Re checking gauges prior to steaming – paragraphs 10.2 and 10.3 should be interchanged
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
186.	Batch 5 Page 128 Para 4 Stockholes MR	Re checking pressure gauge - delete prior to steaming in bullet point 2
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		

187.	Batch 2 Page 5 Para 1. York	Annually check pressure gauge against master
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
188.	Batch 5 Page 111 Para 4 City of Oxford SME	Annual checking of gauge – guidance required re deviation allowed
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
189.	Batch 5 Page 129 Para 1 Pembrokeshire ME	Testing pressure gauge should be part of the 12 month steam test
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
190.	Batch 5 Page 134 Para 2 Fareham & Dist SME	How can pressure gauge of 1.3 times WP be included in 1.5 times hydraulic test
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
191.	Batch 2 Page 17 Para 2. Saffron Walden	Pressure gauge should be checked against test gauge at both hydraulic test and steam test
See Boiler Test Code 2012 paragraphs 6.10, 6.11, 10.2, 10.8, 11.3 and 11.7		
192.	Batch 3 Page 29. Romney Marsh	7.2 removal of cladding at 7 year intervals
For all copper boilers and for steel boilers not exceeding 500 bar litres cladding removal is at the discretion of the boiler inspector – see Boiler Test Code 2012 paragraph 9.1. For steel boilers of 500 bar litres and above see Boiler Test Code 2012 paragraph 9.2		
193.	Batch 3 Page 30. Clive Young of Romney Marsh	Acceptability of doing a steam test where hydraulic is out of date
A steam test can only be undertaken after and during the validity period of a satisfactory hydraulic test. See Boiler Test Code 2012 paragraphs 11.1 and 12.5		
194.	Batch 3 Page 37. Chris Biggs of South Somerset	Are revisions retrospective?
Revisions are not retrospective – see Boiler Test Code 2012 paragraph 4.1		
195.	Batch 3 Page 37. Chris Biggs of South Somerset	Operative date of revisions
1 st January 2013 – see Boiler Test Code 2012 paragraph 4.1		
196.	Batch 3 Page 37. Chris Biggs of South Somerset	Will any revisions be retrospective and at what stage are revisions applicable. How are changes to be reconciled with prototypical equipment?
Revisions will not be retrospective and revisions will come in to effect 1 st January 2013 – see Boiler Test Code 2012 paragraph 4.1. If the prototypical equipment does not comply with the Test Code the boiler must fail – see Boiler Test Code 2012 paragraph 6.2		

197.	Batch 3 Page 38. R Gomersall of Brighouse	Details of weld samples and where to send them
See Boiler Test Code 2012 paragraph 6.3		
198.	Batch 2 Page 16 Para 2. Manx Steam	Weld Samples – what test required and by who
See Boiler Test Code 2012 paragraph 6.3		
199.	Batch 5 Page 102 A N Harrison	Guidance re welders test pieces
See Boiler Test Code 2012 paragraph 6.3		
200.	Batch 5 Page 103 Para 3 Steve Larner	Who can weld a boiler
See Boiler Test Code 2012 paragraph 6.3		
201.	Batch 4 Page 88 Para 5/6. Romney Marsh	Assessing of welder qualification tests
See Boiler Test Code 2012 paragraph 6.3		
202.	Batch 3 Page 40. Peter Gardner of Frimley & Ascot	Process for dealing with small boiler hydraulic retest exempt boilers
See Boiler Test Code 2012 Section 14		
203.	Batch 3 Pages 42/43. Richard Simpson of Kirklees	Testing of small boilers
See Boiler Test Code 2012 Section 14		
204.	Batch 3 Pages 44/45. C Walliman - Halesworth	Hydraulic tests for new commercially built boilers
If the new boiler is supplied with a test certificate (hydraulic shell test) with a pressure test value of $2 \times P_w$ it is not necessary to do another $2 \times P_w$ hydraulic shell test however if any modifications to the boiler have been undertaken a retest to $2 \times P_w$ will be needed – see Boiler Test Code 2012 paragraphs 8.1, 8.2 and 8.4. When all the fittings are in place and before the steam test a $1.5 \times P_w$ hydraulic test will be needed– see paragraphs 9.1 to 9.11		
205.	Batch 2 Page 4 Para 5. Mold	Confirmation that new boilers need a hydraulic test before the steam test
After the initial shell test at $2 \times P_w$ it is necessary, and always has been, to hydraulically test a boiler with all fittings in place to $1.5 \times P_w$ before doing the steam test. The wording has been amended in order to make this requirement clearer - see Boiler Test Code 2012 paragraphs 7.6, 8.2 and 8.4		

206.	Batch 4 Page 88 Para 3 & 4. Romney Marsh	Re 5.6 is it necessary to re-test a new CE marked boiler
If the new boiler is supplied with a test certificate (hydraulic shell test) with a pressure test value of $2 \times P_w$ it is not necessary to do another $2 \times P_w$ hydraulic shell test however if any modifications to the boiler have been undertaken a retest to $2 \times P_w$ will be needed – see Boiler Test Code 2012 paragraph 8. When all the fittings are in place and before the steam test a $1.5 \times P_w$ hydraulic test will be needed– see paragraph 9.		
207.	Batch 2 Page 6 Para 7. North Wales	Re paragraph 7.5 retest procedure should conform to para 6.4
A structurally repaired boiler is treated as a new boiler hence test pressure is $2 \times P_w$ - see Boiler Test Code 2012 paragraphs 7.6 and 8.4		
208.	Batch 2 Page 6 Para 8. North Wales	Re para 9.1/10.1 what if the examination period exceeds 14 months
The period of validity of a steam certificate must not exceed 14 months or the expiry date of the hydraulic certificate whichever occurs first – see Boiler Test Code 2012 paragraphs 11.1 and 12.5		
209.	Batch 2 Page 10 Para 6. Leyland	Practicalities of examining a boiler twice during construction
The requirements are covered by the word 'should' meaning not mandatory only advisory - see Boiler Test Code 2012 paragraph 6.2		
210.	Batch 2 Page 10 Para 8. Leyland	Water temperature unnecessary
It is advisory (the word used is 'ideally') not mandatory. In practice it is be preferable for the water temperature to be at air ambient temperature - see Boiler Test Code 2012 paragraph 10.4		
211.	Batch 2 Page 11 Para 1. Leyland	Small boiler gauge glasses often cannot be blown down
Small boilers are not subject to this requirement see Boiler Test Code 2012 paragraph 14		
212.	Batch 2 Page 11 Para 5. Leyland	12.3 ensure heat source can be removed – not always possible
The wording has been deleted		
213.	Batch 2 Page 14 Para 4. Urmston	12.3 ensure heat source can be removed – not always possible
The wording has been deleted		
214.	Batch 2 Page 11 Para 7. Leyland	Inspection during construction
The requirements are covered by the word 'should' meaning not mandatory only advisory - see Boiler Test Code 2012 paragraph 6.2.		
215.	Batch 2 Page 12 Para 7. Rochdale	Re 7.5 re-test after structural repair at 1/1.2 times or twice
A structurally repaired boiler is treated as a new boiler hence test pressure is $2 \times P_w$ - see Boiler Test Code 2012 paragraphs 7.6 and 8.4		

216.	Batch 2 Page 13 Para 1. Rochdale	Accumulation test should not be annual
It has been decided not to change periodicity at this time.		
217.	Batch 5 Page 99 Bob Bramson	Depth of fire during accumulation test
Wording amended – see Boiler Test Code 2012 paragraph 11.8		
218.	Batch 2 Page 13 Para 9. Urmston	Re 8.2 not necessary to provide a stop valve between boiler and test pump
The stop valve eliminates the possibility of back leakage through the test pump.		
219.	Batch 2 Page 13 Para 10. Urmston	Re 8.3 testing under quiet conditions is not necessary
Quiet conditions are recommended – see Boiler Test Code 2012 paragraph 10.4		
220.	Batch 2 Page 14 Para 2. Urmston	Re 8.4 bullet 5 – test in shade not necessary
It is a fact that the pressure can rise significantly, and without anyone realising, if a boiler is subject to the heat from direct sunlight during the hydraulic test - see Boiler Test Code 2012 paragraph 10.4		
221.	Batch 2 Page 14 Para 3. Urmston	12.2 refers to 5/10 which does not exist (but sections 5 to 10 do)
Section 12.2 refers to Sections 5 to 10 (i.e. sections 5, 6, 7, 8, 9 and 10) not section 5.2.10		
222.	Batch 2 Page 15 Para 6. Manx Steam	Re 8.7 - dezincification
It is not considered practical to condemn all brass fittings. Boiler inspectors should be aware of the possibility of failure due to dezincification.		
223.	Batch 2 Page 15 Para 8. Manx Steam	Re 10.3 where hand pump is one of the two methods of feeding boiler it should always be used for hydraulic test
Incorrect. The boiler inspector's test pump <u>must</u> be used. The operation of the hand pump is however part of the test – see Boiler Test Code 2012 paragraph 11.6.		
224.	Batch 2 Page 15 Para 9. Manx Steam	Re 10.4 and severe punishment on superheaters during the accumulation test
See Boiler Test Code 2012 paragraph 11.4		
225.	Batch 2 Page 16 Para 3. Manx Steam	Re page 20 para 5 – suggest tell-tale holes in stays be mandatory
There are no plans to make tell-tale holes in stays mandatory		
226.	Batch 2 Page 17 Para 1. Saffron Walden	Safety valves once set and checked must not be adjusted altered or tampered with
Agreed, but it is not possible to police what happens between tests - see Boiler Test Code 2012 paragraph 11.9		

227.	Batch 2 Page 17 Para 3. Saffron Walden	Check that blower jet size has not changed for steam test
Point noted but it is not possible to police what happens between tests.		
228.	Batch 2 Page 17 Para 6. Saffron Walden	Where there are double safety valves both must be checked
Agreed – see Boiler Test Code 2012 paragraph 11.8		
229.	Batch 2 Page 17 Para 7. Saffron Walden	Any part inspected during test must not be altered after test
Agreed - it is a test of a pressure system but it is not possible to police changes to the pressure system between tests.		
230.	Batch 4 Pg 91 Comment 1&2 South Cheshire	Combine 9.1 annual cold examination with steam test section and re-word 10.1
See Boiler Test Code 2012 paragraph 11.2.		
231.	Batch 5 Page 109 Para 1 North Wilts MES	Guidance required for testing 'old' steel boilers and laying up procedure
It is at the discretion of the boiler inspector how he carries out the inspection – see Boiler Test Code 2012 paragraph 9.7. For laying up procedure see Boiler Test Code 2012 paragraph 13.5		
232.	Batch 5 Page 110 Para 2 Warrington & D MES	How to proceed when a boiler is presented for test with no history and no paperwork
See Boiler Test Code 2012 paragraphs 6.2, 7.4 and 7.5. If the boiler inspector has any doubts about the boiler he is at liberty not to inspect - see Boiler Test Code 2012 paragraph 4.7		
233.	Batch 5 Page 119 Para 9 Winchester MES	Steam accumulation test and issue of overpressure
Comments noted		
234.	Batch 5 Page 121 Nigel Woodham	Testing welded copper boilers
There are really no differences between testing a silver soldered copper boiler and testing a welded copper boiler. A boiler inspector must only test within his capabilities – see Boiler Test Code 2012 paragraph 3.7. If he is not happy testing welded copper boilers he should not test them.		
235.	Batch 5 Page 122 Hatfield & Dist SME	Map out the testing process using a flowchart
In Boiler Test Code 2012 the text flow has been amended to improve readability. Boiler inspectors are at liberty to use this to create their own chart		
236.	Batch 5 Page 129 Para 2 Pembrokeshire ME	Why don't we test at working pressure + 10%
It should be $P_L + 10\%$ but it is now accepted to use $P_w + 10\%$ - see Boiler Test Code 2012 paragraphs 3.5 and 3.6		

237.	Batch 5 Page 133 Para 1 Fareham & Dist SME	Re para 8.6 – amend hydraulic test duration
It has been decided not to change the hydraulic test duration - see Boiler Test Code 2012 paragraph 10.12		

238.	Batch 5 Page 134 Para 1 Fareham & Dist SME	Re small boilers what do you test to & what is legal interpretation of 'recommend'
See Boiler Test Code 2012 Section 14, the word recommend is no longer used.		

Water Feed

239.	Batch 3 Page 30. Clive Young of Romney Marsh	Accept single boiler inlet with two check valves
Acceptable – see Boiler Test Code 2012 paragraphs 6.6 and 11.6		

240.	Batch 3 Page 39. Des Adeley –National2.1/2G	Does 'two independent means' mean that each must have its own check valve
Yes – see Boiler Test Code 2012 paragraphs 6.6 and 11.6		

241.	Batch 2 Page 5 Para 4. Winchester	Boiler water feed arrangements should be more clearly worded
See Boiler Test Code 2012 paragraphs 6.6 and 11.6		

242.	Batch 2 Page 6 Para 4. Unknown	Water feed arrangements for model boats
See Boiler Test Code 2012 Section 14		

243.	Batch 5 Page 117 Para 11 Peter Bolderston	Clarification needed re two independent means
See Boiler Test Code 2012 paragraphs 6.6 and 11.6		

244.	Batch 5 Page 133 Para 3 Fareham & Dist SME	Discretion to test a stationary boiler which is not part of a complete system
The 'system' must be complete in order to carry out any test.		

Witnesses

245.	Batch 1 Page 52/54 06. Stan Bishop	Why is there a suggestion of removing the need for a witnesses
<p>There are several reasons for a witness becoming non mandatory: -</p> <ol style="list-style-type: none"> 1) for societies based in rural areas the logistics of getting the boiler, its owner, the boiler inspector and a witness all in the same place at the same time are often difficult and may entail two or three people driving many miles 2) It is known that many societies do not treat the witness seriously – they simply look for someone to sign the certificate whether they have actually witnessed the test or not 3) A witness is not needed for tests carried out in accordance with PSSR 2000 4) The insurers, Royal Sun Alliance, do not require the presence of a witness 5) Witnessing tests was considered good training for potential boiler inspectors – but it is known that this does not happen very often 6) If there was an incident, and it finished up in court, it is the boiler inspector whose head would be on the block – the witness would take no part in the proceedings particularly if he had not witnessed the test. 7) If the boiler inspector wishes to work with a witness, or the boiler owner wishes to have a witness, no problem. It is not being suggested that witnesses are withdrawn – merely made non mandatory. 		

246.	Batch 2 Page 10 Para 5. Leyland	Qualification of a witness – how many clubs can provide a witness with a sound knowledge of the design and construction of small boilers?
The word 'preferably' has been added – see Boiler Test Code 2012 paragraph 3.11		

247.	Batch 4 Page 94 Para 4 Steam Itinerants	Support the presence of a witness
If the boiler inspector wishes to work with a witness or the boiler owner wishes to have a witness, no problem. It is not being suggested that witnesses are withdrawn – merely made non mandatory		

248.	Batch 5 Page 130 Wolverhampton & Dist	Support the presence of a witness
If the boiler inspector wishes to work with a witness or the boiler owner wishes to have a witness, no problem. It is not being suggested that witnesses are withdrawn – merely made non mandatory		

Written Scheme of Examination

249.	Batch 1 Page 70/72 15.Barrie Wilkinson	Giving comments on Written Scheme of Examination
The Boiler Test Code 2012 plus a separate boiler specific document will form the Written Scheme		

250.	Batch 5 Page 119 Para 34/5/6 Winchester MES	Sections 7 to 10 should become the Written Scheme of Examination
The Boiler Test Code 2012 plus a separate boiler specific document will form the Written Scheme		