

SOUTHERN FEDERATION NEWSLETTER

INSIDE THIS ISSUE:

<i>From the Chairman</i>	2
<i>Spring Rally</i>	3
<i>Boiler Testing in the Past</i>	4
<i>Annual General Meeting</i>	4
<i>New Boiler Test Code</i>	5
<i>Boiler Test Certificate</i>	6
<i>Simple Guide Boiler Test Certificates</i>	7
<i>Written Scheme of Examination</i>	8
<i>Publications</i>	9
<i>Federation Committee</i>	10
<i>Diary of Events</i>	10



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Views and comments expressed in this publication are not necessarily those of the Southern Federation of Model Engineering Societies

EDITORIAL

We hope you all had a happy Christmas and New Year and looking forward to 2013 with less wind and rain with good steaming weather.

We have made some changes within our organization reducing the number of committee meetings from six per year to four; this will save us quite a lot of money in travelling expenses. As a result of this we have moved the publication date of the Newsletter to February, May, August and November.

Whilst on the subject of Newsletters I would like to thank all those clubs and societies who very kindly send me their Newsletters. I read each one and find it very interesting., thanks.

The past year, 2012, has been a difficult year for the Southern Federation. Our main problem, at a critical time, has been the website and the introduction of the new Boiler Test Code. I have tried to keep you all up to date through the Newsletter; I have in fact published 10 pages of A4 in small print about the subject. I do hope that this information is passed on to your members.



Pete Waterman driving at the Kinver & West Midlands Model Engineering Society at their 50th Anniversary.

They are hosting our Spring Rally. See page 3.

The new Website is now open (see page 2) Remember anyone can receive a copy of this Newsletter Free of Charge through the E-mail system, just let me have your details.

John Walker

Newsletter Editor

COMMITTEE MEMBERSHIP

We desperately need volunteers to serve on the Southern Federation Committee

In March when we hold our Annual General Meeting we will be two committee members short. This is an important role that assists the Model Engineering fraternity across the country. The time you give up is small, only four committee meetings a year, the rewards are large. The meetings are held at the Model Railway Club near to King's Cross Station; travelling expenses to and from the meetings are paid by the Federation.

Come and be part of a long standing organisation and assist us in looking after the wellbeing of the hobby we love best. Your decisions are wanted to help us run an efficient business acceptable to all.

Please apply to our Secretary Ivan Hurst, details on the back page.

FROM THE CHAIRMAN

This edition of "Chairman's Chat" is penned a few days after the London Model Engineering Exhibition at Alexandra Palace, where despite the difficult weather conditions, which noticeably affected the attendance, there was the usual excellent display of a whole range of model activities. As ever, it was a pleasure to meet and have a chat too so many of our friends.

It is only a few weeks away from the most important event in the Federations calendar, the **Annual General Meeting**; once again an excellent venue has been selected at the Mercedes-Benz World, Weybridge, Surrey. Hopefully, your Club/Society will be represented.

In recent months/weeks there has been much criticism of the Federation from individual members on a whole range of topics, some justified, others

not, why not come along to this meeting and air your grievances, and let us know what the Federation should be doing, that we are not already.

One area that has been of concern to the Federations administration for some time now, is the inability to recruit younger members onto the committee, thus helping to maintain the well being of the Federation for the future, we would very much like to hear from some of our younger members, we are all getting a bit long in the tooth now.

If we are not able to overcome this problem, and it is up to you the MEMBERS, sadly, it could possibly see the demise of the Federation, the ball is in your court. A lot of individuals over the years have given freely of their time to establish the Federation as the leading organisation in the country, with a little bit of help from **you** this can continue to

be maintained.

Once again 2013 has got off to a good start for the Federations 'Road Show'. With many invitations already received, it looks as though we are in for a busy season once again. May I remind you, that if you wish, you can order Federation publications for collection at any of the events that we support, thus saving on postage? We look forward to seeing you at the following events before the publication of our next Newsletter.

Harrogate Exhibition
May 10/11/12

Federation Spring Rally – Kinver & West Midlands SME May 18

Kinver & West Midlands SME
Open Day

May 19

Brian Thompson

Members Insurance

If your Club/Society is a member of the Southern Federation you can take out insurance cover for workshop buildings, machinery, models, home railway tracks etc. even if the club/society uses another insurer. Very competitive rates are available.
Contact Footman James for details.

SOUTHERN FEDERATION'S PAST

I was reading through a past copy of the Model Engineer dated 21st June 1968 and there was an article about the Southern Federation in Club News. It was about the formation of the Federation as follows:

Southern Federation

I hear that the Harlington Locomotive Society and the Malden & District Society of Model Engineers are investigating the possibility of forming a Federation of Southern Clubs in the South of England. This would be in an area of approximately

60 miles radius of London, which would extend up to the West Midlands Federation's boundary, but could be extended if desired to suit clubs further out.

The purpose of such a Federation would be primarily for a greater interchange of members, and ideas connected with Model Engineering. Among ideas suggested are a summer rally to be held on one of the Federations Club's tracks, a Winter Exhibition with all the clubs participating, rather on the lines of the Model Engineer Exhibition, but bigger and with more emphasis on the club side rather than on the commercial aspect. A

common Boiler Test Certificate for live steamers that would be accepted on any track within the Federation has also been proposed.

A meeting of representatives from clubs interested is planned for Saturday, August 31st, at the Harlington Rally. Further information can be obtained from either of the following: Mr. Brian Burford or Mr. George Chaplin.

And that's how it all started nearly 47 years ago. Don't let it end here, someone out there volunteer and come on the committee. It would be a shame to see it end.

SOUTHERN FEDERATION WEBSITE

We are very pleased to announce that our website is now up and running and you can log on to: www.southernfed.co.uk

This new website contains a lot of information, but we will be building it up over the next 12 months. We must apologise for any inconvenience that has been incurred in the past.

SOUTHERN FEDERATION SPRING RALLY TO BE HELD AT THE KINVER & WEST MIDLANDS SOCIETY OF MODEL ENGINEERS SATURDAY 18TH & SUNDAY 19TH MAY 2013

The Kinver & West Midlands Society of Model Engineers welcome you to their excellent facilities at Mars Playing Fields in Kinver for the Spring Rally. The Sunday is an open invitation day.

Southern Federation Members are invited to come and enjoy our 3½" and 5" gauge raised aluminium track of just under half a mile. There is also a 7¼" gauge steel track ground level. Road vehicles are particularly welcome with both grass and tarmac areas available for running.

History

Although its origins date back almost eighty years, it was in 1962 that the Wolverhampton Society of Model Engineers Ltd, as it was then known, moved to their new club facilities at Marsh Playing Fields in Kinver near Stourbridge in the West Midlands. The club has been based there ever since and the name of the society was changed to the Kinver & West Midlands Society of Model Engineers Ltd. in order to reflect this new location. The club site is situated in a quiet corner of this picturesque village, adjacent to the River Stour. There is a raised miniature railway track of both 3½" and 5" gauge which extends for almost half a mile, making it one of the longest continuous tracks in the country. Other facilities include a 7¼" ground level railway; steaming bays; a covered station with footbridge; a signal cabin; three swing bridges; a tunnel and two turntables. There are also numerous outbuildings including workshops and carriage storage sheds adjacent to a spacious clubhouse. This has presentation facilities; a kitchen and serving area suitable for refreshments; toilet facilities and a comprehensive club library. In 2005 the Society had the opportunity to acquire the previously leased land and this was purchased outright by the members.

Finding us

The club is based at Marsh Playing Fields, adjacent to the Kinver Community Centre on Legion Drive off Kinver High Street almost opposite the Police Station. The nearest Post Coded building - The Royal Exchange public house - is at the end of our driveway and has a post code of DY7 6ER

Camping facilities will be available, visiting Model Engineers are welcome to bring along an engine with current Boiler Test Certificate.

If you wish to camp please pre-arrange by E-mailing us on:

ksmewebsite@gmail.com

To find out more go to our website:

www.kinvermodelengineers.org.uk

Pictures supplied by the Kinver & West Midlands Model Engineering Society



2013 ANNUAL GENERAL MEETING SATURDAY 9TH MARCH 2013

The 2013 Annual General Meeting will take place at Mercedes-Benz World, Brooklands Drive, Weybridge, Surrey, KT13 0SL starting at 2 pm prompt in the conference room on the ground floor. The following facilities are available:

- ◆ Access to Mercedes World and the meeting is free of charge.
- ◆ Free car parking.
- ◆ Wheel chair friendly.
- ◆ Restaurant.
- ◆ Exhibition of Mercedes cars from their first car to the latest models - not to be missed.

Further information is include with his Newsletter

To find the site leave the M25 motorway at junction 10 (A3) turn towards London, at the A245 turn left towards Weybridge, at the junction with B374 turn left, it is signed to the venue.

I regret to advise you that only four people (including one couple) have expressed an interest in the M-B driving experience, it has been cancelled.

PLEASE MAKE EVERY EFFORT TO ATTEND, THESE MATTERS AFFECT YOUR
CLUB/SOCIETY

*Southern Federation
Sales*

We shall be in attendance at the Annual General Meeting in March.

Place your orders for Green Books, Written Scheme of Examination pad, Boiler Test Certificates, Small Boiler Test Certificates and Blue Cards.

Contact Brian Thompson to place your orders and collect at the Meeting.

BOILER TESTING IN THE PAST

Boiler Testing is a hot subject at the moment so I thought that you might be interested in how it was in the past. This is an extract from the Model Engineer dated 17th October 1969.

Model Boiler Testing Procedure

1. It is recommended that all model boiler testing shall be carried out by two competent members of the model engineering society concerned.
2. The Boiler Inspectors should preferably, but not necessarily, be qualified engineers, but they should at least be men with both theoretical knowledge and practical experience of steam models.
3. The Boiler Inspectors should carry out an examination of the whole of the boiler, as far as his can be seen externally and inside the firebox.
4. A hydraulic test with cold water should then be carried out at twice the normal working pressure. The test pressure should be applied at least three times, the pressure being allowed to return to normal between each test. After the hydraulic test, the boiler should be thoroughly examined for collapse or distortion. While appreciable distortion will condemn the boiler, slight leakage need not do so, as this can nearly always be corrected, after which the boiler can again be tested.
5. Safety Valves must be of sufficiently large area to prevent the boiler pressure rising more than 19 per cent

above the working pressure, however hard the boiler is worked.

6. The Boiler Inspectors should examine all fittings on the boiler during the second and subsequent tests.
7. All boilers should be tested once every twelve months.
8. After the boiler tests have been satisfactorily completed, the Boiler Inspectors should issue a suitable certificate, signed by them, and dated, and marked "valid for 12months only".
9. Although not essential, a steam test of the boiler, with all fittings in place, at a pressure 10 per cent higher than working pressure, is recommended.
10. If the boiler has been built to other than a recognised published design, the Boiler Inspectors should examine the drawings and details of construction, before accepting the boiler for test.
11. All the above clauses apply to copper boilers with brazed or silver-soldered joints only.
12. Boilers built entirely of steel should be tested hydraulically to a pressure 2½ times working pressure before being passed. Where possible, the steel boiler should be measured for signs of wasting.

In those days it was very simple and only took up one page in the Model Engineer. We now have a multi page document of more than 20 pages. Has it changed any thing, not very much, just more paper, but we have a longer test period. Our changes again are mainly only paper.

THE NEW BOILER TEST CODE AND ASSOCIATED DOCUMENTATION

The booklet Examination and Testing of Miniature Steam Boilers 2008 edition, originally known as the Blue Book, has been updated by the Model Engineering Liaison Group (MELG) and is now the 2012 edition Boiler Test Code BTC 2012, the Green Book. The MELG consists of appointed members of the Southern Federation, the Northern Association, the Midland Federation and the 7¼ inch Gauge Society together with representatives of the insurance brokers Footman James and Walker Midgley and the Royal & Sun Alliance. Over the past year the original documentation has been reviewed taking in to account comments and observations received from Clubs, Societies and individual members. The documentation has been upgraded to bring the procedures in line with the requirements of the Pressure Systems Safety Regulations 2000 with the introduction of a Written Scheme of Examination which is applicable to each boiler, or to be more precise, the Pressure System.

The scheme will come in to operation from the 1st January 2013. From that date old style boiler certificates may no longer be issued. However a boiler with remaining time on existing certificates may run the course under the old scheme and is only required to be tested under the new scheme once the current certificate expires. The new scheme is to be introduced at the time of the next test, whether it is a hydraulic or steam test, to minimise the time before a Written Scheme of Examination and new style certification is applied.

The Examination and Testing of Miniature Steam Boilers, Boiler Test Code BTC 2012.

This is the new Boiler Test Code and will be issued by all of the Organisations that administer the affairs of our hobby. The content has been agreed and approved by the Royal & Sun Alliance, the principal insurer for the hobby. The Boiler Test Code may also be used by Clubs and Societies who do not use the Royal & Sun Alliance to provide insurance but it is recommended that the alternative insurance provider is consulted to check that the Boiler Test Code is acceptable.

The Boiler Test Code forms part of the Written Scheme of Examination and as such is applicable to every single boiler. Under these circumstances it is therefore a requirement that every owner/user of a boiler should hold a copy of the Boiler Test Code.

The Written Scheme of Examination.

The Written Scheme of Examination has been provided in order to comply with the requirements of the Pressure Systems Safety Regulations 2000 and is applicable to every single boiler. The document is to be used in conjunction with the Boiler Test Code BTC 2012 indicated above. The document is provided as a sequentially numbered pad which is to be filled in by the Club or Society boiler inspector. Full Guidance on the Completion of Documentation is printed on the inside cover of the document pad.

The Written Scheme of Examination form is to be filled in only once unless the boiler changes hands or if the boiler has undergone major repairs or the working pressure has been altered.

The Written Scheme of Examination certificate has three copies and is printed on NCR paper (no carbon required). The top copy is to be handed to the owner/user, the second copy is held on file by the boiler inspector and the third copy is to be sent to the Southern Federation Boiler Registrar in order to update the Federation data base as shown below:

Mr. D. Mayall
9, Parsons Close,
Church Crookham,
Fleet,
Hampshire, GU52 6HL

The Examination Certificate of a Pressure System.

The Examination Certificate is a combined Hydraulic and Steam Test certificate. The document is provided as a sequentially numbered pad which is to be filled in by the Club or Society boiler inspector. Full Guidance on the Completion of Documentation is printed on the inside cover of the document pad.

The Examination Certificate has two copies and is printed on NCR paper (no carbon required). The top copy is to be handed to the owner/user, the second copy is held on file by the boiler inspector.

The boiler may only be used if the owner/user is in possession of a valid Hydraulic and Steam Test certificate.

The Small Boiler Test Certificate.

The Small Boiler Test Certificate combines a Written Scheme of Examination and a Test Certificate applicable to boiler with a pressure -volume product value of less than 3 bar litres. It may be used by Clubs and Societies whose members operate small boilers such as locomotives, stationary engines and marine models on the Club or Society site.

The document is provided as a sequentially numbered pad which is to be filled in by the Club or Society boiler inspector. Guidance on the Completion of Documentation is printed on the inside cover of the document pad.

The Examination Certificate has two copies and is printed on NCR paper (no carbon required). The top copy is to be handed to the owner/user, the second copy is held on file by the boiler inspector.

The boiler may only be used if the owner/user is in possession of a valid Hydraulic and Steam Test certificate.

Boiler Test Record.

This is the small Blue Record card issued previously with the original test certification. It is used to record the various tests and over the ensuing years will form an historic record of the boiler. It is recommended that the card is continued to be used for the new documentation.

Wally Pearson

Safety Officer

NEW BOILER TEST CERTIFICATE

Examination Certificate of a Pressure System		Certificate No.			
Pressure Systems Safety Regulations 2000		C 150451			
1. Relevant Organisation: <small>(please print or type)</small> The Gauge Society / Northern Association of Model Engineers / Southern Federation of Model Engineering Societies		Written Scheme No.			
2a) Owner's Name:	2b) Location of System: <small>(i.e. boiler where examined)</small>				
2. Item/System Details: A boiler built commercially after 30 May 2002 shall not be tested unless it carries appropriate CE marking (see BTC para 6.4)					
a) Serial/Boiler (System) Number:	h) Year Boiler Built:				
c) Name of Boilermaker:	4) Boiler Material:				
e) Type of Model: <small>(e.g. Railway, Locomotive or Vehicle / Road Vehicle / Boat / Stationary Plant / Other (please specify))</small>	g) Gauge or Scale:				
f) Description: <small>(e.g. Railway No. 44220 (open-top))</small>	i) Bar Type of boiler:	j) Registration No.: <small>(if not stated on the boiler or other)</small>			
4. Examination Undertaken:					
4a) Cold Examination and Hydraulic (Shell) Test Yes / No <small>Note: Test Pressure is 2 times working pressure - see BTC Sections 7 & 8</small>					
Test Pressure Applied: _____ psi for a Working Pressure (P_w) of _____ psi					
4b) Cold Examination and Hydraulic (Repeat) Test Yes / No <small>Note: Test Pressure is 1 1/2 times working pressure - see BTC Section 8</small>					
Test Pressure Applied: _____ psi for a Working Pressure (P_w) of _____ psi					
4c) Cold Examination and Hydraulic Test carried forward from Certificate Number: _____					
Working Pressure (P_w) of _____ psi during a Cold and Hydraulic Test due <small>(i.e. hydraulic test expiry date)</small>		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">DD</td> <td style="width: 20px; height: 20px;">MM</td> <td style="width: 20px; height: 20px;">YY</td> </tr> </table> Strike through if not carried forward certificate	DD	MM	YY
DD	MM	YY			
4d) Cold Examination and Steam Test Yes / No					
5. System parts not Examined: (e.g. because cladding not removed) <small>(continue overhead if necessary)</small>					
E. Repairs Needed and Timescale for Completion: <small>(continue overhead if necessary)</small>					
7. Result of Examination:					
7a) Cold Examination and Hydraulic (Shell) Test:	Pass / Fail / Not Undertaken	<small>if Pass wait for date of boiler & subject to Repeat Tests if Fail complete Section 8 below</small>			
7b) Cold Examination and Hydraulic (Repeat) Test:	Pass / Fail / Not Undertaken	<small>if Pass complete 7c below if Fail complete Section 8 below</small>			
7c) Date next Cold Examination and Hydraulic Test due: <small>(i.e. hydraulic test expiry date)</small>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">DD</td> <td style="width: 20px; height: 20px;">MM</td> <td style="width: 20px; height: 20px;">YY</td> </tr> </table>	DD	MM	YY	<small>Strike through if Repeat Hydraulic Test not undertaken</small>
DD	MM	YY			
7d) Cold Examination and Steam Test:	Pass / Fail / Not Undertaken	<small>if Pass complete 7e and 7f below. if Fail complete Section 8 below</small>			
7e) The safety valves were seen to blow freely at a pressure not greater than the stipulated Safe Operating Limit ($P_w + 10\%$). It is my considered opinion that the System may be returned to service and operated at a Working Pressure (P_w) of: -	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">psi</td> </tr> </table>	psi	<small>Strike through if Steam Test not undertaken</small>		
psi					
7f) Date next Cold Examination and Steam Test is due: <small>(i.e. steam test expiry date strike through if not undertaken)</small>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">DD</td> <td style="width: 20px; height: 20px;">MM</td> <td style="width: 20px; height: 20px;">YY</td> </tr> </table>	DD	MM	YY	<small>Note: The date of the next Cold Examination and Steam Test cannot be later than the date of the next Cold Examination and Hydraulic Test as above in either 4c or 7c above</small>
DD	MM	YY			
8. Notes: (e.g. 'Cladding Removed' including 'Other Observations', 'Reason for Fail' or 'Defects which may give rise to Imminent Danger') <small>(continue overhead if necessary)</small>					
Name of Club/Society:		Affiliation Number of Club/Society:			
Declaration: - I have concluded my examination of the System detailed above in the manner and to the extent described in the Examination and Testing of Miniature Steam Boilers Revised Edition 2012 and any subsequent revisions and in the Written Scheme of Examination and in any related report(s) and this is a true statement of the result of the examination. The record of the Examination and Test consists of this certificate and the related documentation.					
Inspector Name:	Inspector Signature:				
Witness Name:	Witness Signature:				
<small>Note: If the Inspector is authorised by his Club/Society to conduct tests without a witness write 'Not Required' (see Boiler Test Code paragraph 3.9)</small>					
Date the Examination took place:	Date of this Certificate:				

A SIMPLE GUIDE TO THE NEW BOILER TEST CODE

The new Boiler Test Code (BTC 2012) takes effect from the 1st January 2013 and covers all boilers tested or built after this date, it is not retrospective. Any boiler having a valid test certificate on the old certificate does not have to have it retested under the new procedure until it is due. Steam Tests will be carried out using the new Boiler Test Certificate.

Boiler Test Code (BTC 2012) Green Book

The changes to the procedures are relative small; the main one being the presentation of the information which has been done in a logical order through out the book. This makes it easy to find the information. A List of Contents and Alphabetical Index have been added.

Clarified to show that it is necessary to carry out two tests on new boilers. The first test at twice working pressure (2 x Pw (shell test) with all holes sealed to verify the integrity of the boiler shell. The second test to take place at one and a half times working pressure (1½ x Pw) (repeat test) with all the fittings, super heaters and other components installed. This is to verify adequate strength and leak free pressure system.

Paperwork

From January 2013 sees the introduction of the Written Scheme of Examination (WSE) which must be issued for all boilers to validate that they meet the requirements of Pressure Systems Safety Regulations (PSSR 2000). This is to meet the EU Regulations which have been in place since 2000. The form is very simple to fill in and it is only issued once and copy has to be kept by the owner and the Club/Society. If the model is sold to a new owner a new WSE must be issued. A copy of this document must be sent to the Southern Federation Boiler Registrar.

The Boiler Test Certificate is a new document and replaces the old one only when the boiler is due for its test. It is a dual certificate covering both the Pressure Test and the

Steam Test. The old steam test certificates should now not be used. Any that have time on them before test are valid. DO NOT send in a copy of the Boiler Test Certificate to the Boiler Registrar.

We have introduced a Test Certificate for boilers below 3 bar litres; this is an integral document containing both the WSE and Boiler Test Certificate. A copy of this document is NOT to be sent to the Boiler Registrar. It is up to the Club or Society to decide if they wish to use this form; they may be using the Gauge One or 16mm Association scheme. A pad of 50 forms can be obtained from the Southern Federation.

The Southern Federation recommends that you continue to use the Blue Card as a record of all the tests carried out, a history of the boiler should any of the documents be lost. A plastic envelop is available from the Southern Federation to keep all the documents in.

The Southern Federation recommends that all Boiler Inspectors and Owners of Steam Boilers read and understand the contents of the new Boiler Test Code (BTC 2012). This is a requirement of PSSR 2000; additional copies are available from the Southern Federation by post or from our stand at Exhibitions and Rallies.

The Southern Federation will be issuing Free Of Charge one set of the documents to each of the affiliated Clubs and Societies. You are advised that due to the large number of mail orders received it will take several days before they will be despatched.

Note: No orders will be despatched without Brian Thompson receiving a written order form request either by E-mail or using the form recently included in the affiliation renewal mail shot.

Clubs/Societies requiring additional certificate pads, Green books or Blue record cards, orders will be dealt with separately and charged at the going postal rate, please ask first.

BOILER TEST CODE REVIEW

In Spring 2011 our Safety Officer sent out a form requesting suggested revisions to the existing Boiler Test Code as detailed in the Blue Book documentation. This resulted in a very high response with a total of 250 items. Every one of these items were vetted by the Model Engineering Liaison Group and where appropriate incorporated in the new book. If you would like to see the result of your suggestions please go to our website:

www.southernfed.co.uk

And go to "Boiler Test Code Review" Any queries, or requests for further clarification, should be made to our Safety Officer of the Southern Federation, details will be found on the last page of this Newsletter on how to contact him.

DISTRIBUTION OF BOILER TEST CERTIFICATES

Distribution of the new Boiler Test Certificates and Green Books will start from the 4th February.

Make sure that you have you order in to Brian Thompson

We want to get it over as soon as possible

NEW WRITTEN SCHEME OF EXAMINATION

The Pressure Systems Safety Regulations 2000 Statutory Instrument 2000 No 128 - Regulation 8 Written Scheme of Examination for a Boiler

1. Introduction 1.1. This Written Scheme of Examination has been written in order to comply with the requirements of the Pressure Systems Safety Regulations 2000 (Regulation 8) 1.2. All examination and testing shall be carried out in accordance with the requirements of the formerly issued Boiler Test Code entitled The Examination and Testing of Miniature Steam Boilers, Boiler Test Code BTC 2012 or the latest edition reissued at the time of the test. The pressure test values and the periodicity of test shall be in accordance with the Code		Scheme No. W 000001
2. Description of the System: a) Serial / Boiler (System) Number: _____ b) Name of Owner: _____ c) Year of Manufacture: _____ d) Name of Manufacturer: _____ e) Boiler Material and Method of Joining: _____ f) Boiler Type: Fire Tube / Water Tube g) Type of Model: Railway Locomotive or Vehicle / Road Vehicle / Boat / Stationary Plant / Other (please specify) _____ h) Description: _____ i) Gauge or Scale: _____ j) Working Pressure (P _w): _____ psi k) Limit (Safe Operating) Pressure (P _L): _____ psi (P _L = P _w + 10%)		
3. Items to be Examined and Tested: - tick box to confirm item's fitted <input checked="" type="checkbox"/> leave blank if not fitted		
Safety Valve SV1 <input type="checkbox"/> SV2 <input type="checkbox"/> SV3 <input type="checkbox"/> SV4 <input type="checkbox"/>	Boiler Feed Check Valve CV1 <input type="checkbox"/> CV2 <input type="checkbox"/> CV3 <input type="checkbox"/> CV4 <input type="checkbox"/>	
Fusible Plug FP1 <input type="checkbox"/> FP2 <input type="checkbox"/>	Blow Down Valve BDV1 <input type="checkbox"/> BDV2 <input type="checkbox"/>	
Pressure Gauge PG1 <input type="checkbox"/>	Boiler Water Feed Injector IWJ1 <input type="checkbox"/> IWJ2 <input type="checkbox"/> IWJ3 <input type="checkbox"/>	
Water Level Gauge WLG1 <input type="checkbox"/> WLG2 <input type="checkbox"/>	Boiler Water Feed Mechanical Pump MP1 <input type="checkbox"/> MP2 <input type="checkbox"/>	
Try Cock TC1 <input type="checkbox"/> TC2 <input type="checkbox"/>	Boiler Water Feed Hand Pump HPT1 <input type="checkbox"/> HPT2 <input type="checkbox"/>	
Superheater SH1 <input type="checkbox"/>	Boiler Water Feed Steam/Electric Pump FFP1 <input type="checkbox"/> FFP2 <input type="checkbox"/>	
4. Special Requirements: - Identify any special requirements applicable to this system		
5. Examinations: 5.1 A new boiler shall be examined in accordance with Sections 7 and 8 indicated in the Code. The new boiler shall comply with the requirements of the Pressure Equipment Regulations 1999 and subsequent Amendments where necessary 5.2 A previously tested boiler shall be examined in accordance with Section 9 indicated in the Code		
6. Preparation for Test: The boiler shall be prepared for test by the owner in accordance with Section 6 indicated in the Code		
7. Initial Hydraulic Pressure Test: (Shell Test) 7.1 A new privately built boiler shall be subject to an initial hydraulic pressure test in accordance with Section 10 indicated in the Code. The test pressure and duration of test shall be as indicated in the Code. 7.2 A commercially built boiler shall have been tested to the same initial hydraulic pressure test values as indicated in the Code. A certificate of Hydraulic test shall have been provided by the manufacturer and will be accepted provided that it is accompanied by a CE Declaration of Conformity in accordance with the requirements of the Pressure Equipment Regulations 1999 where appropriate. 7.3 This test is valid for the life of the boiler unless the boiler is subject to repair or modification which would affect the structural integrity of the boiler. In this case the boiler shall be subject to a retest to the values indicated in the initial hydraulic pressure test.		
8. Subsequent Hydraulic Pressure Tests: (Repeat Tests) Subsequent hydraulic pressure tests shall be carried out after the completion of the initial hydraulic pressure test and once all the relevant fittings have been attached to the boiler in accordance with Section 10 indicated in the Code. The pressure test values, duration and periodicity shall be as indicated in the Code.		
9. Steam Tests: Steam tests shall be carried out in accordance with Section 11 indicated in the Code. The tests shall be carried out after the subsequent hydraulic pressure test at the specified intervals indicated in the Code.		
10. Records: 10.1 Record of Reviews and Modifications to the Written Scheme of Examination shall be undertaken by the Model Engineering Locomotives Group only. 10.2 Record of Modifications to the System shall be recorded on a replacement Written Scheme of Examination.		
11. Certification: 11.1 This unique Written Scheme of Examination (WSE) shall be used in conjunction with the formerly approved Hydraulic and Steam Test Certificate issued by the relevant Federations, Associations and Societies identified in the Code. 11.2 All relevant information required by the Pressure Systems Safety Regulations 2000 shall be recorded on the appropriate certificates and supporting documentation. 11.3 This Written Scheme of Examination forms part of the package of documentation that shall be retained by the owner of the boiler and subsequently passed on to the new owner if the boiler is sold. 11.4 This Written Scheme of Examination and certification shall be retained in accordance with the requirements of the Pressure Systems Safety Regulations 2000, Regulation 14.		
Name of Club/Society: _____		Affiliation Number of Club/Society: _____
The Written Scheme of Examination is controlled by the Model Engineering Locomotives Group whose Chartered Engineer is Mr W.C. Pearson CEng MMEGE. The Controlling Engineer (as described in Pressure Systems Safety Regulations 2000 Regulation 8 Paragraph 10c) for this scheme is:-		
Controlling Engineer (Boiler Inspector) Name: _____		Signature: _____
Date Written Scheme of Examination prepared: _____		

PUBLICATIONS AVAILABLE FROM THE SOUTHERN FEDERATION

Availability

From our stand at rallies and exhibitions or by post from Brian Thompson our Chairman.

	From our stand	By Post
Directory Supplement 2012 (Secretarial Information).....	£3.00	£3.60
Directory - Detailing S/Fed affiliated clubs/societies facilities.....	£3.00	£4.20
Examination & Testing of Miniature Steam Boilers BTC 2012 - Green Book.....	50p	£1.00
Pack of 5... ..	£2.50	£3.20
HSG216 Passenger-carrying miniature railways 'Guidance on safe practice'	£3.00	£4.50
Boiler Test Certificates - Pad of 50.....	Price to be advised	
Written Scheme of Examination - Pad of 50.....	Price to be advised	
Small Boiler Test Certificate - Pad of 50.....	Price to be advised	
Boiler History Record Card - Pack of 10.....	£1.00	£2.20
Plastic wallets to hold certificates size A5.....	60p	90p
Pack of 5.....	£3.00	£4.20

Please make your cheque payable to *Southern Federation MES*, if by post and send to:

Brian Thompson
35, Rivershill,
Watton at Stone,
Hertfordshire, SG14 3SD

CHANGES OF SECRETARY, NAMES & ADDRESSES

New Members: -

Kennington Junction Railway.

Mr. E. Bennett, 16 Priory Orchard, Wantage, Oxon. OI2 9EL Tel. No. (01235) 766578 Email: edjb@sky.com

Secretary Changes: -

Cambridge Model Engineering Society

Mr. P. Bramall, 4 Moat Way, Swavesey, Cambs. CB4 4TR Tel. No. (01954) 201521

Canterbury and District Model Engineering Society.

Mr. T. Gilkerson, 42 The Street, Kingston, Canterbury, Kent. CT4 6JE Tel. No. (01227) 830012

Email: terrygilkerson@btinternet.com

City of Newport Model Engineering Society.

Mr. D. Lewis, 28 Forest Close, Coed Eva, Cwmbran. South Wales NP26 5JG Tel. No xxxxxxxx

Email: dialoco15@hotmail.com

Great Yarmouth Model Boat Club

Mr. A. Leedham, 13 Lawn Close, Knapton, Norfolk. NR28 0SD Tel. No. (01263) 720789 Email: aleedham@btinternet.com

North London Society of Model Engineers

Mr. M. Barnes, 19 Olden Road, Letchworth, Herts. SG6 2SP Tel. No. (01462) 686110

North Norfolk Model Engineering Club.

Mrs. Y. Ford, 230 Roughton Road, Cromer, Norfolk. NR27 9LQ Tel. No. (01263) 512350 Email: zordie@btopenworld.com

Change of Address: -

South Durham Society of Model Engineers

Mr. P. Hale, Holmelands Farm, Raby Lane, East Cowton, Northallerton, North Yorks. DL7 0BW Tel. No. (01325) 378452

Email: peter@pmhale.fsnet.co.uk

SOUTHERN FEDERATION COMMITTEE

CHAIRMAN

Brian Thompson, 35, Rivershill, Watton at Stone, Hertfordshire, SG14 3SD,
Tele: 01920 830 629
E-mail: brian.t.sfed@btinternet.com

SECRETARY & VICE CHAIRMAN

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Tele: 01252 510 340
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Tele: 01843 588 378
E-mail: john.homersham@sky.com

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E-mail: fradav@ntlworld.com

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Tele: 01789 266 065,
E-mail: jgwal@btinternet.com

COMMITTEE MEMBERS

Mike Chrisp, Ashley Edwards,
Roger Griffiths and Brent Hudson.

INSURANCE CLAIMS AND INCIDENTS

All claims and reports of incidents should be notified to Footman James in the first instance.

FEDERATION SALES

Available from Brian Thompson, Chairman.

FEDERATION INSURANCE BUSINESS

Managed by Footman James, Waterfall Lane, Cradley Heath, West Midlands, B64 6PU, Tele: 0121 561 6210
Contact Angela Orford.
E-mail: angela.orford@footmanjames.co.uk

**We are on the
Web**

www.southernfed.co.uk

Diary of Events

Events identified thus * the Federation sales stand will be present

Would you like your event shown on our Diary of Events? Please send details to the Newsletter Editor, E-mail address on the first page.

The event should be restricted to invitation events for Model Engineers, NOT public running.

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01789 419 921

DIARY OF EVENTS 2013

March 2/3	Northern Modelling Exhibition Event City, Manchester.
March 9	SOUTHERN FEDERATION AGM at Mercedes-Benz World Brooklands
May 4	Welling & District MES - Locomotive Rally inc. Gauge 1
May 10/11/12	Harrogate Model Engineering Exhibition
May 18	Polly Rally at the Bournemouth & District SME
May 18	*FEDERATION SPRING RALLY, Kinver & West Midlands SME.
May 19	Host Society Open Day.
June 1/2	*Vale of Aylesbury Model Engineering Society Traction Engine Rally.
June 8/9	Sweet Pea Rally Nottingham Society Model Engineers
June 15	Locomotive Rally Harlington Locomotive Society
June 15/16	Rally for 5" & 7¼" locos North Wilts ES Coate Water Park.
June 29/30	Model Steam Road Vehicle Society Rally - Tewkesbury.
July 12/14	IMLEC Leyland Society of Model Engineers
July 20/21	*Guildford Model Engineering Society Exhibition & Rally.
July 27/28	City of Oxford Model Engineering Society Dreaming Spires Rally.
August 3/4	Vale of Aylesbury MES - Metropolitan Railway Gala
August 9/10	Frimley & Ascot Loco Club - Locomotive Rally
August 16/17/18	*Bristol Model Engineering Exhibition - Thornbury, Bristol.
August 30/Sept. 1	Bedford Model Engineering Society Invitation Rally.
September 1	LBSC Rally & Trophy North West Leicestershire SME
September 21	*FEDERATION AUTUMN RALLY, Northampton Society. MES.
September 22	Host Society Open Day.
October 5	Welling & District MES Locomotive Rally inc. Gauge 1.
October 17 - 20	*Midlands Model Engineering Exhibition at the Fosse.