

THE WARRIOR

The Newsletter from the LMS-Patriot Project

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Issue 7

The LMS Patriot Co. Ltd. Company Registered in England & Wales No. 6502248 Registered Charity No. 112352

Dragbox Made for 'The Unknown Warrior'

By Andrew Laws, Marketing Director

Another piece of 45551 'The Unknown Warrior' has now been constructed at the Llangollen Railway Works. The dragbox – the load bearing structure that is mounted between the frames below the cab, has been fabricated by coded welder Ian Massey at the Llangollen Railway Works. The steel for the dragbox arrived at Llangollen as pre-cut flat sections, which were then welded together to form the box structure. The completed dragbox was then taken off site to be heat treated. This process was necessary to even out the stresses within the newly welded structure. The dragbox has now returned to Llangollen and has been machined ready for fitting in the frames. The next item being made is the bogie bolster (see update below), and the stretchers. Once all these have been made and are installed between the frames, they will then be riveted in place.

Engineering Update

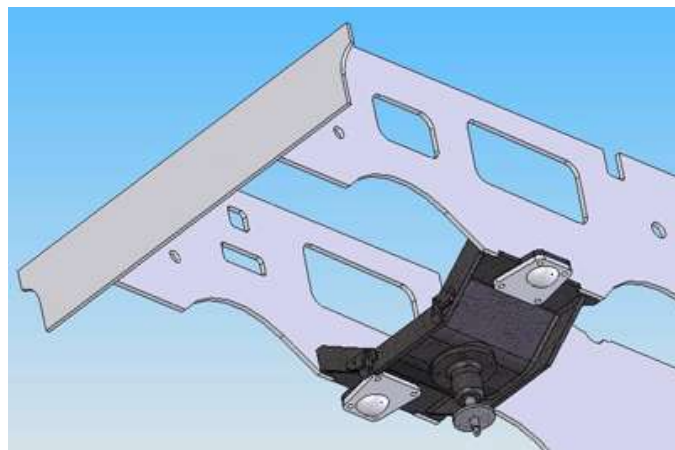
By David Bradshaw, Chairman

A start on the pattern for the bogie bolster has now been made by master pattern maker Eddie Mocroft, at the Boro Foundry. Once this is complete, the complete bogie bolster will be made as a single casting, before being taken to Llangollen for fitting between the front of the frames.

Further progress has now been made obtaining drawings, with the discovery of the entire collection of drawings produced by the North British Locomotive Company of Glasgow for the 'Royal Scot' class, in the Glasgow University Archive. The drawing lists for the Royal Scot, 'Patriot and Jubilee classes have also been obtained from the NRM at York. These will allow us to compare the drawings produced for the three classes to establish which of these were common between the three classes. If parts are found to be common between the 'Scot' and 'Patriot' we can obtain copies of the original drawings that were produced by the NBL. If drawings cannot be found for the 'Patriot' components



The newly constructed dragbox is seen at the Llangollen Railway Works during December 2009, before being sent away for heat treatment.



Drawing of bogie bolster (dark grey component) shown fitted to front of frames. Drawn by Kevin West.

that we need to make, then new drawings will be made from examining similar locomotives. The closest loco to a 'Patriot' was a 'Jubilee' and we are lucky to have four surviving 'Jubilees' that we can examine.

We now have all the 'Patriot' drawings which are held at the NRM, and as we suspected and we don't believe there are any further 'Patriot' drawings to be found. But if any Members know the whereabouts of any 'Patriot' drawings, please do get in touch.

Wheels Appeal Update

The Wheels Appeal that was launched in Heritage Railway magazine at the end of last year has now raised about half of the £60,000 that is needed to cast the six driving wheels for 45551 'The Unknown Warrior'. A pattern (shown right) was made to cast two new wheels for Jubilee 45699 'Galatea' to replace the ones that were cut through at Barry scrap yard. This pattern has kindly been made available to the Project by Bob Meanley, CME at Tyseley Locomotive Works. The LMS–Patriot Project would like to thank Bob for the assistance he has provided with the driving wheels for 'The Unknown Warrior'. Tyseley is no stranger to LMS 4–6–0 locomotives, with number 45593 'Kolhapur' based there. It was also the former home of 45699 'Galatea' before she moved to Carnforth for extensive restoration. It is hoped that if the rest of the funds can be quickly raised, the order for the six 6' 9" driving wheel castings can be made later this year. Quotes have already been received from Cooks and the Boro Foundry, who are currently working on the pattern for the bogie bolster.

Looking ahead, planning has already begun for the complete wheelsets. For example, the lead time for the axles is 48 weeks, as these are being sourced in South Africa, where the driving wheel tyres will also be obtained.

The LMS–Patriot Project would also like to thank the generosity of Heritage Railway readers and all donors who have contributed to the Wheels Appeal, and also to Robin Jones (Editor of HR) for his support.



Quality Matters - Quality Product, Quality Performance

By Steve Blackburn, Engineering and Quality Director

One of the main objectives of the LMS–Patriot Project is to see 45551 'The Unknown Warrior' out on the main line fulfilling it's role as the new National Memorial Engine. This is for the benefit and enjoyment of the widest possible audience.

The requirements of Network Rail to put any vehicle out on it's infrastructure are stringent to say the least and for a charitable organisation starting 'from scratch', as it were, are daunting. This all the more so when attempting to build a steam locomotive to a 80 year old design and incorporate all the electronics to interface with modern railway signaling systems designed for the 21st century 125mph railway.

The process requires the detailed documentation at all stages of the building programme to ensure that all parts are manufactured to the accepted standard in terms of design, specification, assembly, testing and final acceptance.

This will obviously have cost implications but should be viewed as a good investment to minimise the failure risk and costly repairs during future main line operations.

This process not only ensures that the locomotive is built to exacting standards but also that it's ongoing operation is controlled. This is achieved using agreed maintenance regimes and fitness to run inspections to avoid embarrassing and costly failures out on the infrastructure.

We do not want to be in a position (as witnessed in the last few months by some high profile operators) of having a failure on charter work which reflects badly on the vehicle owners/operators and the Heritage Movement in general.

Just a final thought, having said all that, and with a target date of November 2018 for completion we have only 100 months or 450 weeks if you prefer to achieve our goal!!

Membership Matters

By Richard Sant, Company Secretary

Membership is growing rapidly towards 400, with the 3 original subscribers and Directors who started the Company in February 2008 renewing for the third time, as we are now in the third year of the membership scheme – although this didn't really get under way until August 2008. It is particularly encouraging that virtually all members are maintaining their membership although we automatically write to you after 2 months just in case you have been unaware of the original reminder. We are also in the middle of the Heritage Railway "Wheels Appeal" which is bringing in a flood of new Members and Donors as well.

As you know we are trying to keep postage costs to a minimum by emailing this Newsletter to you, and following some concerns from members who use a dial up connection, rather than broadband, I do assure you that they are quite small files. If unsure then please let me know on the Membership answerphone (01889 271058) and a hardcopy will be posted to you. All emails on Membership will be answered within 24 hours and letters within a week.

Please note it can be quite a long time for a letter you might have written a few days ago to filter through the system to the Post Office Box: if it arrives the day after I've emptied it for that week it wouldn't be collected until the following week.

The feedback from you the Members is important and we welcome comments, questions, articles, and photographs via email or by post.

Membership Recruitment Drive

We are looking to get over 500 Members before too long. If you are able to recruit new Members, we will deduct £1 off next year's Membership Fee for every new Member that you recruit. For example if you are able to recruit 15 new Members, your next years' Membership will be renewed at no cost to yourself! If you belong to a railway club, society or are a member of a Heritage Railway, please tell your friends and colleagues about the Project! If you are able to distribute any of our fundraising leaflets, please do get in touch.

2009 Raffle Drawn at Llangollen

The 2009 Fundraising Raffle was drawn at Llangollen on 20th December by Santa during the Llangollen 'Santa Specials' which operated during December. Santa was on hand at 'Lapland' Station on a cold Sunday evening on a day that had seen plenty of snowfall in the beautiful Dee Valley. We are pleased to report the raffle made around £2400 for the Project. Thanks to everybody who bought a ticket. The winning tickets drawn by Santa were: 3233 – Mr Greally and 3570 – Mr Batchelor who won footplate rides, 0353 – Mr Coomer who won a model of a 'Patriot' which was kindly donated by Bachmann, 3561 – Mr Bailey won a £50 M&S voucher and 0299 – S. Tracy who won a Philip Hawkins book.



Patriot Facts

It was very rare in steam days for 'Patriots' to venture 'off region'. They were very rarely seen away from the London Midland Region. However, in 1950 it is known that at least one 'Patriot', number 45516 'The Bedfordshire and Hertfordshire Regiment' still in crimson lake livery, was sent specially to the Southern Region to work a troop train carrying homeward-bound troops from the 1st Battn. The Bedfordshire and Hertfordshire Regiment from Southampton Docks.

The Corwen Patriot Gala, 23rd – 25th April, Llangollen

The LMS–Patriot Project is holding a joint gala in April to raise funds and awareness for both 45551 'The Unknown Warrior' and for the extension from Carrog to Corwen on the Llangollen Railway. A Transport and Works Order has been applied for and the Llangollen Railway needs to find £800,000 of the £4million expected cost of the 2.5 mile extension and the building of a new station at Corwen.

The Llangollen Railway has been the home of the LMS–Patriot Project since the Project was formally launched at Llangollen in 2008 and members of the Llangollen Railway trust including former Crewe Works staff have actively supported the project in fundraising and engineering.

Progress on the construction of 45551 'The Unknown Warrior' can be seen in the Loco Works during the three day Gala, and Members are invited to come to Llangollen to view the loco.

The Gala will feature the Llangollen Railway 'home fleet', including Black 5 44806, GWR 2–8–0 3802, GWR Pannier Tank 6430, and newly restored BR Standard 4 Tank, 80072. There will be one visiting loco for the gala, that is likely to be an LMS tender engine. Details were still being finalised at the end of February.

We are in discussion with the Railway about running a Members Train during the 'The Corwen Patriot Gala', and a photo charter is being planned around the time of the Gala hopefully using the visiting engine. 30 places will be available for the photo charter, which will cost £30 each. If you are interested in buying a place on the photo charter, please contact us.

We will be having our Sales Stand on the platform at Llangollen during the Gala, and all Members are invited to come and support the Project and the Llangollen Railway at 'The Corwen Patriot Gala'. We hope to see you there.



45543 'HOME GUARD' is seen at Derby (Midland Station) on 14th October 1962 on an LCGB railtour 'The Midland Limited'. This tour started at London Marylebone and visited Nottingham Victoria. 45543 worked the leg from Derby to Northampton Bridge Street. Photo courtesy of David Phillipp.

2010 Events

We will be attending the following events in 2010 with our sales stand:

- 1980s Weekend, Crewe Heritage Centre
2nd – 5th April
- The Corwen Patriot Gala
Llangollen Railway
23rd – 25th April
- GWR 175, Didcot Railway Centre
1st – 3rd May
- Ecclesbourne Valley Railway Steam Gala
31st July – 1st August
- Warley National Model Railway Exhibition
NEC, Birmingham
20th – 21st November

The events listed above are manned by volunteers who give up a day or two over a weekend to help out at the galas that we attend. The aim of these events is to raise awareness of the Project, sign up new Donors and Members, as well as generating sales income. Please get in touch if you help can help out.

Appeal for Unwanted Items for eBay

If any Members have any unwanted Railway Books, DVDs, or model railway items, we would be very happy to accept these so that we can sell them at the Galas and Events that we attend. We've also recently set up an eBay site for the Patriot Project, which has second hand railway items and other items for sale. Hopefully all these will come from donated items. Unfortunately we are not able to accept magazines because of the weight involved.

We've already received quite a few donated items which have benefited the Project already. A big thank you to Neil and Karen, Brian Johnson, John Barrowdale, Chris Wilson, and also to Colin Cromwell who donated a load of railway books at the recent GCR Winter Steam Gala at Loughborough. Also if you've got any Railwayana that you would like to donate to the Project we would love to hear from you. See contact info on page 6.

Patriots at the Pub

We've received two photographs from Pete Roulston of some 'Patriot' pub signs.

Unfortunately like the real thing these signs are no longer around and have been replaced by other pub signs.

The red unrebuilt 'Patriot' at 'The Railway Tavern', Nuneaton was taken on 26th May 2001. This sign now has been replaced with a picture of a Black 5.



The photograph shown below is of rebuilt 'Patriot' 45535 'E. Tootal Broadhurst' at 'The Railway' pub at Ramsey, in Cambridgeshire and was taken on the 18th July 2004. This sign has now changed to an LNER V2.



The LMS–Patriot Company Limited

Building the New Royal British Legion Endorsed National Memorial Engine – ‘The Unknown Warrior’

Company Registered in England and Wales No.: 6502248

Registered Office: Barry Island Station Buildings, Barry Island, Vale of Glamorgan, CF62 5TH

Registered Charity No: 1123521

VAT Registration No: 978 8801 48

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Director: Kevin Finnerty (Governance and Archive)

Director: Steve Blackburn (Engineering and Quality Management)

Director: Richard Sant (Membership and Donations)

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Documentary Video: Andrew Kennedy/Oakwood Visuals

Sales Support: Neil and Karen Kinsey, John Hastings–Thomson, John Barrowdale, David Hancox, John Lancaster

Locomotive

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Sponsorship and Endorsement

The LMS–Patriot Project is proud to have received the endorsement of The Royal British Legion. We have also been kindly sponsored by the following companies. If your Company or organisation would like to sponsor the Project, please contact us.

OAKWOOD VISUALS

