Welcome to the **Second Issue of** The Signal Box

Quarterly News and Updates from Fenix

April 2016

Fenix is celebrating its 12 months since we opened the doors and what a year it has been.

We successfully completed Phase II of the RETB (Radio Electronic Token Block) Project with telent Technology Ltd in the West Highlands of Scotland, delivered on time in budget despite the challenges of storm "Douglas".

RETB for the Far North Line is ongoing alongside a number of other complex and interesting projects that give us some exciting opportunities for 2016 and beyond.

From the "first day in the office" we have developed and delivered our original business model to secure complex niche projects with high technical content.

Our journey so far would not have been such a success without the support, dedication and technical expertise of the Fenix Team.

Fenix ensures that the knowledge and skills of the group are fully engaged and every opportunity to develop those skills is explored to maximise client benefit.

We know that our business is founded on the collaborative knowledge, experience and skills that are "Fenix" and our objective to credibly deliver signalling projects to our clients.

We look forward to the next 12 months with anticipation and enthusiasm for the challenges that lie ahead on the Fenix way ahead.

Fenix Signalling and Telent complete West Highland Line TPWS signalling testing for RETB Project





Fenix Signalling, in collaboration with Telent, has successfully delivered the Train Protection Warning System (TPWS) signalling testing works on the West Highland Line in Scotland. This milestone is the first part of the Radio Electronic Token Block (RETB) Next Generation project taking place on the West Highland and Far North Lines.

RETB is an electronic development of the physical token system for controlling traffic on single lines, with the driver receiving movement authority via a cab display radio (CDR). Fenix Signalling is responsible for the signalling design and the signalling testing and commissioning works for the project under the management of Eddie Murphy, Fenix Head of Projects, and supported by the Fenix specialist team.

The current RETB legacy operating frequencies are being reallocated by OFCOM to digital TV throughout Europe, requiring all RETB radio infrastructure to be upgraded to support the new frequencies.





Chiltern railways Engineers from Fenix Signalling have visited PintschTiefenbach in Germany to receive product training as part of a project to deliver

a Depot Control System for the Chiltern Light Maintenance Depot in Banbury where Fenix have been retained by the Buckingham Construction Group Ltd to deliver the signalling control system and interface. Read more



and counting Formed just one year ago, rail services provider Fenix Signalling is now a company in full flight, having already delivered a number

of highly varied projects to the UK rail industry. The select team of signalling specialists has a combined

Read more

knowledge of more than 90 years in the rail industry.



long term future of the Rail Industry. Here at Fenix Signalling we continually commit to the development of our staff members and we are keen to support

and encourage individuals looking to pursue a career within the rail industry Read more



established by our Victorian Ancestors.

Read more

programme in a generation, upgrading a network originally

Head Projects and Business Development

Meet Eddie Murphy

At Fenix Signalling, Eddie Murphy is responsible for the management and development of all aspects of client signalling projects, as well as the promotion of the

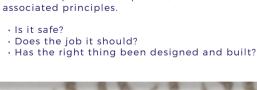
Eddie's wealth of experience spans over 25 years in the industry, both in the UK and at a number of worldwide destinations, focusing on project management during the last 20 years. Read more

company's capabilities within the broad rail signalling

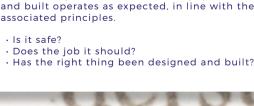


Richard Hill joins Fenix

Signalling for work experience



installation.



In its simplest explanation principles testing is a

methodical process to test if the equipment designed



Principles Testing

Computer controlled interlockings allow the Tester an

A signalling interlocking is an arrangement or system

movement of trains through an area of track such as a

of signal equipment which prevents the conflicting

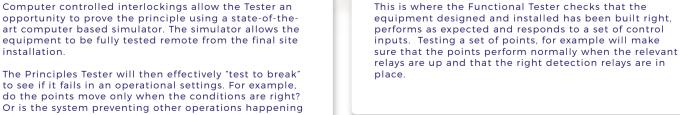
junction or crossing.

Firstly, we must understand

an interlocking:



Functional Testing



when the points are not in their correct position'



Summary

system resilience and functionality using a state-of-the-art simulator. It can be argued that there are similarities

Principles testing creates a further opportunity to ensure

There is no margin for error with rail signalling, the consequences of incorrect practice are unthinkable.

with the practices experienced by airline pilots moving to a new type of aircraft. Despite their proven knowledge and capability, they too are vigorously tested and accredited on simulators (principles testing) prior to their in-flight training (functional testing)



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