



Network Rail
40 Melton Street
London
NW1 2EE
Tel: +44 (0)20 7557 8000

Memorandum

To: John Masterson; Nigel Wheeler;
Roy Gardner; Brighton ECR,
Canterbury ECR, Eastleigh
ECR, Lewisham ECR, Paddock
Wood ECR, Raynes Park ECR,
Selhurst ECR

From: Arif Arabaji

Title: E&P Engineer (Electrical
Distribution)
Tel: 085 78978 (020 7557 8978)

cc: Cliff Elsey, Alex Buchinger;
Martin Sigrist; Mark Inwood.

Date: 4 August 2006

NR/BS/LI/054 - Issue 1: Letter of Instruction

This is a Letter of Instruction. In accordance with Section 16, of Network Rail Business Process Document, NR/SP/STP/090 – *Managing Change to Network Rail Standards*, I give notice that the following changes shall be made with effect of **4 August 2006:**

Maintenance and operation of WS Switchgear

Instruction

If a low pressure alarm or pre-alarm occurs, staff should verify the gas pressure by independent means (i.e. comparison with pressure gauge on refill bottle) before deciding upon a further course of action.

Operational sites where this switchgear has been installed and assumed to be affected by this problem are listed below. Area E&P Engineers or representatives are required to identify sites where “Keller” type of transducers are fitted and confirm to Arif Arabaji, E&P Engineer (Electrical Distribution), by no later than 27 October 2006.

When this identification inspection is being carried out on site, NO SWITCHING shall be carried out while the person(s) are in the internal arc blast area of the switchgear.

Method Statement produced by Areva for identifying this type of the transducer is attached to this instruction.

All affected transducers will be replaced by Areva by September 2007.

The reason for its issue

As a result of investigation by AREVA T&D (formerly Alstom Transmission and Distribution) and United Utilities, AREVA T&D have confirmed that there is a risk of the SF6 gas IGIS pressure transducers giving a false low gas indication on WS Switchgear.

This transducer problem potentially affects equipment manufactured between 1st January 2003 and 1st May 2005 where two types of transducers were used.

The transducers subject to this instruction are the "Keller" type which has not been used since the above period.

This potential problem only affects the measured gas pressure, not the true pressure. Therefore the performance of the switchgear is unaffected and it can continue to be used normally.

Operational Sites affected which are fitted with WS Switchgear

SWITCHGEAR LOCATION	NUMBER OF TRANSDUCERS
Bexley Heath	2
Plumstead	2
West Wickham	2
Elmers End	4
Grove Park	2
Dartford	4
Hither Green	4
Charlton	4
Belverdere	2
Northfleet	2
Eltham (Well Hall)	2
Wrecclesham	4
Brighton	6
Littlehampton	4
Coulsdon North	4
Keymer Junction	6
Three Bridges	6
Clapham Junction	6
Copyhold Junction	2
Durnsford Road	4
Great Lakes Farm	2
Hand Cross Road	4
Selhurst Park	4
Streatham	2
White Bushes	4

Balham	4
Belle Vue	4
Burges Hill	2
Folley Hill	2
South Bermondsey	4
Southwalk	2
Nunhead	4
Greenwich	2
Lewisham	6
Norwood Junction	4
Bognor	4
Eastbourne	4
Horsham	4

Standards affected

None

Expiry date

This Letter of Instruction dated 4 August 2006 shall expire when a superseding Letter of Instruction is issued.

This instruction does not change any requirements for compliance with any other standards or health and safety requirements.

Further advice and guidance on the application of these changes may be sought by contacting **Arif Arabaji on 085 78978 (020 7557 8978)**

Author:

Arif Arabaji

E&P Engineer (Electrical Distribution)

Endorsed by:



Kevin Lydford

Head of Electrification and Plant Engineering