Information for users

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Instructions for use

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NR/WI/ELP/00110	Issue 2	01 June 2008	Proceed to standard ▶
NR/BS/LI/034	Issue 1	31 October 2005	Proceed to letter ▶

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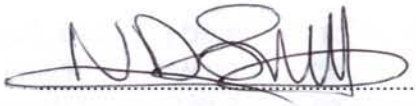
Ref:	NR/L3/ELP/00110
Issue:	2
Date:	01 June 2008
Compliance date:	26 August 2008

Level 3

Maintenance of Electrification, Plant, Signalling and Telecommunications Equipment, Incorporating Asbestos Materials or Components

Endorsement and Authorisation

Endorsed by:



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Mick McManus, National Standards Manager

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Issue record

Issue	Date	Comments
1	21 May 2004	Document required to comply with the *Control of Asbestos at Work Regulations 2002.*
2	7 June 2008	Document updated for Phase 2A re-organisation

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 26 August 2008.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 4 to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Stage 4 was reached and not to comply with requirements contained herein, unless the designated Standard Owner has stipulated otherwise in the accompanying Briefing Note.

Reference documentation

See Clause 3

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1 Purpose

This Work Instruction supplements existing maintenance instructions with asbestos related requirements for electrification, plant, signalling, and telecommunications equipment incorporating asbestos materials or components.

Appendix B of this document comprises method statements, which are applicable to maintenance work on generic equipment types, and which define the limits of maintenance work that may be safely carried out by Network Rail's staff or its contractors without the need for PPE or RPE.

Any work which does require PPE or RPE shall only be carried out by an HSE licensed contractor or laboratory, under controlled conditions, and supported by a task specific method statement.

2 Scope

This Work Instruction applies to all maintenance work on electrification, plant, signalling and telecommunications equipment incorporating asbestos materials or components asbestos.

3 Reference documentation

2004-P375-S1-AGP-RT/E/WI/00110	Risk Assessment Report
	Control of Asbestos at Work Regulations 2002
	Special Waste Regulations 1996

4 Definitions and abbreviations

Maintenance	Activities required to support continuing operation of the equipment including examination, cleaning, dismantling, overhaul, fitting new/replacement parts, readjustment and reassembly etc.
PPE	Personal Protective Equipment
RPE	Respiratory Protective Equipment
HSE	Health & Safety Executive

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5 Work which could disturb or release asbestos fibres

Work on Electrification, Plant Signalling and telecommunications equipment incorporating asbestos materials or components **which could disturb asbestos contaminated residues or release asbestos fibres into the atmosphere** shall be carried out only:

a) in accordance with the requirements of a written method statement or plan of work derived from a suitable and sufficient risk assessment prepared by an HSE licensed contractor or laboratory in accordance with the *Control of Asbestos at Work Regulations* for the location, the asset and the work to be carried out; and

b) after suitable arrangements have been made for the safety of other persons present or who may come into the vicinity during the work and during emergencies. These arrangements shall be included in the Method Statement.

NOTE Equipment incorporating asbestos materials or components is listed in Appendix A. Generic Method Statements for these types of equipment are contained in Appendix B.

6 Work which will not disturb or release asbestos fibres

Work on Electrification, Plant Signalling and telecommunications equipment incorporating asbestos materials or components that is permitted and **will not disturb asbestos contaminated residues or release asbestos fibres into the atmosphere** shall be carried out in accordance with the method statements in Appendix B and maintenance instructions for that equipment.

7 Movement and labelling of asbestos affected materials and waste

Asbestos materials, components or waste shall be moved only in sealed containers, which are designed, constructed and maintained to prevent the asbestos escaping during normal handling. Containers shall not be overfilled.

Where appropriate, waste materials may be double wrapped using heavy duty clear polythene bags, each sealed using heavy duty tape or cable ties.

Containers including double bags shall be labelled in accordance with the *Control of Asbestos at Work Regulations* and all other statutory requirements applicable.

Asbestos affected materials and waste shall be removed by specialist contractors in accordance with the *Special Waste Regulations.* Maintenance shall maintain a register of suitable specialist contractors.

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8 Reporting the presence of asbestos affected materials

The presence of asbestos materials or components within Electrification, Plant, Signalling, and telecommunications equipment not listed in Appendix A shall be reported to the relevant Maintenance Engineer, Network Rail.

Any emergency resulting in an uncontrolled release of asbestos fibres to the environment or the contamination of other equipment shall immediately be reported to the relevant Maintenance Engineer, Network Rail.

Asbestos materials or components found in a deteriorated condition, which could allow asbestos fibres to be released into the air, shall be reported to the Maintenance Engineer, Network Rail.

NOTE Deteriorated condition includes:

- *the surface being damaged, fractured, chipped, frayed or scratched;*
- *surface sealants missing, peeling or breaking off;*
- *material becoming detached from its base or base layer;*
- *protective coverings designed to protect the material, missing or damaged;*
- *asbestos contaminated residues or debris from damage near the material.*

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Appendix A
Register of Electrification, Plant, Signalling and Telecommunications equipment incorporating asbestos materials or components

The following generic equipment groups may incorporate asbestos materials or components:

Equipment and Location (where applicable)	**Component containing asbestos affected material(s)**
DC traction circuit breakers- type MM74, RJR, HSE, HSL, ABB UR36, MR and AEI RLR.	Arc Chutes
AC circuit breaker – type K11	Arc Chutes
25 kV AC switchgear – ASEA	110 V contactor
Air Conditioning	Ducting
Low voltage fused isolators	Interior compartment lining
Motor starter equipment	Resistor(s)
Equipment & relay rooms	Shelves
400/230 V LV distribution equipment	BS 3036 rewireable fuse holder, BS3036 fuse base, flash guard.
650 V switchgear for signalling supplies	Door seal using fibrous rope, flash guard
Metalclad distribution switchboards	Door seal using fibrous rope
EHT panels	Asbestos covered single core cables
Standby generators	Asbestos wrapping on exhaust pipe.
Cable troughing - non concrete types	Troughing body and lid
Location cabinets	Door seals, cable entry base-boards
Points machine types: Westinghouse M3 and M3A; Alstom HW; SGE types HA and HB	Bevel gear bearing and thrust washer, friction clutches, fibrous rope seals

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Equipment and Location (where applicable)	**Component containing asbestos affected material(s)**
Signal head AEI-GRS	Door seal
Signalling relay types: (a) Time delay types QJ1 (pin code 123 &124); QJN1 (pin codes 1052, 1053, 1054 and 1059) (b) Westinghouse 'P' style series PTT1 and PTT2 (c) Westinghouse large signal and double width plug-in time delay relays TT1B, TT3B, TT6B and TT5	Asbestos covered thermal timing elements
Boilers and pumps	Gaskets
Asbestos covered cables	Cable sheath covering

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Appendix B
Generic method statements

These Method Statements, as appropriate, shall be followed when undertaking work on the following asbestos affected Electrification Plant, Signalling and Telecommunications equipment **which could disturb asbestos contaminated residues or release asbestos fibres into the atmosphere**:

B.1 Arc chutes of switchgear and contactors

B.1.1 Introduction

This Method Statement supplements existing maintenance specifications/procedures/work instructions.

B.1.2 Affected components

Arc chutes on MM74, RJR, HSE d.c. circuit breakers, and K11 a.c. circuit breakers made from Sindanyo board, which is cement bonded and contains asbestos, and should not be confused with asbestos-free Sindanyo board which is coloured green.

Arc chutes of 110 V contactors on 25 kV A.C. switchgear ASEA.

B.1.3 Permitted work

Examination of arc chute.

Removable of the arc chute and replacement with a non asbestos arc chute, and prepare for transport to a licensed waste contractor for disposal.

Placing in a suitable sealed container for disposal.

B.1.4 Prohibited work

The asbestos materials or components shall not be subjected to drilling, machining, brushing, scraping, dusting, cleaning, wiping, sanding, filing, sawing/cutting or any other activity which could release asbestos fibres into the atmosphere.

B.1.5 Personal protective equipment and respiratory protective equipment requirements

Not required.

B.1.6 Other equipment

None.

B.1.7 Exposure/work limitations

None.

B.1.8 Applicable risk assessment

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