Electricity Specification 601

Issue 2 December 2005

Insulating Gloves

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Approved for issue by the Technical Policy Panel

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## Amendment Summary

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INSULATING GLOVES

1. INTRODUCTION

This specification sets out the requirements for insulating gloves purchased by Electricity North West Limited, hereinafter referred to as Electricity North West.

2. SCOPE

The following types of insulating gloves, together with the appropriate protective overgloves, are covered by this specification:

   (a) 1 000V (RMS) grade  Wrist and Gauntlet type, sizes 8, 8½, 9, 9½, 10, 10½, 11
   (b) 11 000V (RMS) grade  Wrist and Gauntlet type, sizes 8, 8½, 9, 9½, 10, 10½, 11

3. TECHNICAL AND PERFORMANCE REQUIREMENTS

3.1 Compliance with Specification

Insulating gloves shall be made of materials, which fully comply with the design, construction and test requirements of BS EN 60903: 2003 Live working. Gloves of insulating material.

Colour coding in accordance with the specification is required, as follows:

   1 000 V  Red inner/yellow outer
   11 000 V  Yellow inner/black outer

Only gloves manufactured and approved to BS EN 60903:2003 will be accepted and approval shall be indicated by CE mark or by witnessed successful completion of test requirements, the witness being a nominated ESI representative.

3.2 Marking

Gloves shall be marked in accordance with BS EN 60903:2003. In addition, the 11kV grade gloves shall be marked 'SWITCHING GLOVES, DO NOT USE AFTER XX/XX/XX' where XX/XX/XX is the date 12 months after the date of manufacture or after the date of last successful test/inspection.

3.3 Recent Manufacture/Test

Gloves shall not have a month of manufacture, or month of test/inspection, earlier than 2 months before the month of delivery. For example, gloves delivered in March shall not have been manufactured before January of the same year. Gloves failing to meet this requirement will not be accepted.

3.4 Outer Containers

Outer containers shall be available for each type of glove and gauntlet so that when required the gloves or gauntlets can be ordered with outer containers. The containers shall be constructed of PVC, nylon, leather or canvas.

4. GENERAL REQUIREMENTS FOR APPROVALS AND TESTING

4.1 Product not to be changed

No change in the product, packaging or labelling shall be made after Approval has been granted without prior notice to the Engineer, and receipt of a written agreement to the proposed change from the Engineer.
4.2 **Electricity North West Technical Approval**

4.2.1 The tenderer shall submit, with this tender, proposals for testing which will demonstrate, to the satisfaction of the Engineer, compliance with this Specification. Such tests shall be carried out without expense to Electricity North West.

4.2.2 Alternatively, the tenderer may submit technical reports and other data that he considers will demonstrate, to the satisfaction of the Engineer, compliance with this specification. Acceptance of this evidence shall be at the discretion of the Engineer but will not be unreasonably withheld.

4.3 **Quality Assurance**

4.3.1 The Tenderer shall confirm whether or not approval is held in accordance with a Quality Assurance Scheme accredited under ISO 9000. If not, he shall submit a statement of the quality assurance procedures employed to control the quality of the product, including the performance of Suppliers and Sub-Contractors.

4.3.2 The right is reserved for the Engineer to require, from time to time, the repeat of such tests as he may deem to be reasonably necessary to demonstrate continued compliance with the Specification.

4.3.3 The tenderer shall submit, with his tender, a list of tests and inspections which are carried out on the product prior to despatch which shall demonstrate, to the satisfaction of the Engineer, fitness for installation and service.

4.3.4 The tenderer shall provide free of charge to Electricity North West such samples as may, in the opinion of the Engineer, be reasonably required for inspection and/or retention as quality control samples. The Engineer will confirm the requirement for samples at the time of tendering.

4.3.5 The right is reserved for the Engineer to make, from time to time, such inspections of the tenderer’s facilities as he may deem to be reasonably necessary to ensure compliance with this Specification and any Contract of which it forms a part.

4.3.6 The Tenderer shall submit, with his tender, such details of product packaging disposal, as will enable Electricity North West to comply with the requirements of BS EN ISO 14001: 1996 – Environmental Management Systems.

4.4 **Formulation**

The Tenderer shall submit, with his tender, such details of the formulation and use of the product and associated substances as will enable Electricity North West to comply with the obligations of the Health and Safety at Work Act 1974 and the Control of Substances Hazardous to Health Regulations 1988, in the use, storage and disposal of the product. The tenderer may stipulate, prior to submission of such information, that he requires it to remain confidential and the Engineer will, if requested, confirm his agreement to this prior to receipt of the information.

4.5 **Identification Markings**

4.5.1 The Tenderer shall submit, with his Tender, details of markings which it is proposed to apply to the product or packaging to identify manufacturing batches or items. The forms and content of such markings shall be subject to the Approval of the Engineer, and shall in all cases include the Electricity North West Commodity Code Number.
4.5.2 The Tenderer shall submit, with his Tender, such details of marking gross weight on components, assemblies and packages, as will enable Electricity North West to comply with the Health and Safety Manual Handling Operation Regulations 1992, for components, assemblies and packages supplied with a gross weight over 1kg. The forms and content of such markings shall be subject to the Approval of the Engineer.

4.6 Minimum Life Expectancy

The minimum life expectancy of all products covered by this specification is 5 years.

4.7 Manufacturers Already Approved

Clauses 4.2.1, 4.2.2, 4.3.1, 4.3.3, 4.3.4, 4.4 and 4.5 will be waived in the case of products already approved.

4.8 Product Conformity

Preference will be given to those suppliers who can provide suitable Product Conformity Certification to a recognised or specified standard, or an equivalent certification.

5. REQUIREMENTS FOR TYPE AND ROUTINE TESTING.

The specifier shall set out the requirement of the following tests to be carried out by the supplier at the suppliers’ cost.

5.1 Requirement for Type Tests at the Suppliers’ Premises

These are a series of one-off type tests, which are carried out to ensure the satisfactory performance of the product design, under extremes of operating stresses, and of endurance, as may be appropriate, to be determined by the specifier.

These may or may not be destructive tests.

5.2 Requirement for Routine Tests at the Suppliers’ Premises

These tests may be required to be carried out on every individual unit or component, as specified, or at some regular frequency to be determined by the specifier.

The results of these tests may be required to be supplied to Electricity North West with each unit purchased or retained for inspection, at a period to be determined.

6. DOCUMENTS REFERENCED

Health and Safety at Work Act 1974
Control of Substances Hazardous to Health Regulations 1988
Health and Safety Manual Handling Operation Regulations 1992
ISO 9000 - Quality Management Systems
BS EN 60903:2003. Live working. Gloves of insulating material
EPD311 - Approval of Equipment
CP311 - Equipment Approval Process

7. KEYWORDS

Gloves; Rubber; Live Line; Safety.