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RAILWAY APPLICATIONS - SAFETY

MEASURES FOR THE PERSONNEL

WORKING ON OR NEAR OVERHEAD

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TECHNICAL REPORT
RAPPORT TECHNIQUE
TECHNISCHER BERICHT

CLC/TR 50488

December 2006

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English version

**Railway applications -
Safety measures for the personnel working
on or near overhead contact lines**

Applications ferroviaires -
Mesures de sécurité pour le personnel
travaillant sur ou à proximité des lignes
aériennes de contact

Bahnanwendungen -
Sicherheitsmaßnahmen bei Arbeiten
an und in der Nähe von Oberleitungen

This Technical Report was approved by CENELEC on 2006-11-24.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This Technical Report was prepared by SC 9XC, Electric supply and earthing systems for public transport equipment and ancillary apparatus (fixed installations), of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to the formal vote and was approved by CENELEC as CLC/TR 50488 on 2006-11-24.

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Introduction

This Technical Report was prepared in order to provide a technical basis for possible further standardization activities on the subject above.

As it is known, the safety rules for the work activities on or near electrical installations are stated by EN 50110-1. This standard was conceived with particular reference to the A.C. three-phase or D.C. electric power generation, transmission and distribution systems. It states explicitly that it "has not been developed specifically to apply" to the electric traction systems, because of the particular nature of these installations.

In developing the present document, EN 50110-1 was taken as a guide, following the recommendation contained in the Scope of the abovementioned Standard.

Because of the too many differences existing and the particular scenarios, this document deals with maintenance activities in the vicinities of the overhead contact lines with nominal voltage equal or above 1,5 kV.

During the WG activity the general rules for organization of the work and personnel qualification contained in EN 50110-1 revealed to be applicable also to the electric traction lines and are reported here for the sake of completeness. According to the CEN/CENELEC Internal Regulations Part 3 – Clause 1, second paragraph, in the statements that were taken from EN 50110-1 without modification, the expressions "shall", "is to" and similar were not changed in the corresponding (should, ought to, etc.) referred to in Table G.2 of the abovementioned document.

Safety measures for live working activities are not covered in this Technical Report. In the countries where the live working on the overhead contact lines is allowed, the National Committees should state the necessary safety rules

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