

Handbook

Earth potential rise—Protection of telecommunications network users, personnel and plant—Worked examples for the application guide



HB 219:2006

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RECONFIRMATION

OF

HB 219:2006

**Earth potential rise—Protection of telecommunications network users,
personnel and plant—Worked examples for the application guide**

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Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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NOTES

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PREFACE

This Handbook was prepared by the Joint Standards Australia/Standards New Zealand Technical Committee ET-007, Coordinating Committee on Power and Telecommunications (CCPT), Subcommittee ET-007-01, Earth Potential Rise.

The objective of this Handbook is to provide some worked examples that supplement the understanding of the main application guide AS/NZS 3835.2. This Handbook should be read in conjunction with AS/NZS 3835.2.

Preparation of the AS/NZS 3835 series of Standards was undertaken to update the technical content of the original *EPR* Code, and the application guide.

This Handbook makes reference to publications prepared by the NZCCPTS. Enquiries concerning these publications should be directed to the secretary of NZCCPTS. Contact details for the secretary and details of NZCCPTS publications are available at the web site <http://www.nzccpts.co.nz>. Some of the publications are available as free downloads from the above web site.

This Handbook is part of a Series of Standards dealing with Earth Potential Rise (*EPR*), which when complete will consist of the following parts:

AS/NZS

3835	Earth potential rise—Protection of telecommunications network users, personnel and plant
3835.1	Part 1: Code of practice
3835.2	Part 2: Application guide
3835.3	Part 3: Isolation arrangements for paired cable telemetering telecontrol service in LV areas and HV sites

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219	Earth potential rise—Protection of telecommunications network users, personnel and plant—Worked examples for the application guide (this publication)
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A Bibliography lists documents that were referenced in preparing AS/NZS 3835.1 and AS/NZS 3835.2.

References specific to this handbook are listed separately.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Handbook provides worked examples of *EPR* calculations supporting AS/NZS 3835.2, *Earth potential rise—Protection of telecommunications network users, personnel and plant, Part 2: Application guide*.

1.2 APPLICATION

This Handbook should be read in conjunction with AS/NZS 3835.1.

AS/NZS 3835.2 should be read in conjunction with AS/NZS 3835.1, *Earth potential rise—Protection of telecommunications network users, personnel and plant, Part 1: Code of practice*