

SAA HB101—1997

COORDINATION OF POWER AND TELECOMMUNICATIONS— LOW FREQUENCY INDUCTION (LFI)

Code of practice for the mitigation of hazardous voltages induced into telecommunications lines

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Review of this Publication Suggestions for improvement to this Publication, addressed to the head office of Standards Australia are welcomed. Notification of any inaccuracy or ambiguity found in this Publication should be made without delay in order that the matter may be investigated and appropriate action taken.

COORDINATION OF POWER AND TELECOMMUNICATIONS— LOW FREQUENCY INDUCTION (LFI)

**Code of practice
for the mitigation of hazardous voltages
induced into telecommunications lines**

First published by ESAA and ATC 1974.
Reprinted with editorial changes 1978.
Reset and redesignated SAA HB101 — 1997 (CJC 5).



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PREFACE

The publication entitled *LOW FREQUENCY INDUCTION*, and subtitled *Code of Practice for the mitigation of hazardous voltages induced into telecommunication lines*, was prepared jointly by the then Australian Telecommunications Commission and the Electricity Supply Association of Australia (ESAA) and adopted on 6 August 1974. It was reprinted in 1978 with editorial changes.

The *Low Frequency Induction Code* includes general administrative and procedural conditions, the agreed engineering principles, and principles for the apportionment of responsibilities and costs.

In 1997, Standards Australia agreed to reset, republish and distribute the *Low Frequency Induction Code*, making the following changes in the text:

- (a) The term 'Electricity Utility' has been used in place of 'Power Authority', in recognition of recent organizational changes in the Electricity Supply Industry.
- (b) Telstra, the trading name of Telstra Corporation, has been used in place of Telecom Australia.

This publication introduces no substantive change from the earlier edition. Accordingly that edition may continue to be used in parallel with this edition.

This publication makes reference to a supplementary *Application Guide* to the publication *LOW FREQUENCY INDUCTION*. The *Application Guide*, printed in November 1981 and reprinted in November 1984, is being reset by Standards Australia as publication CJC 6 (SAA HB102) (in course of publication); meanwhile, reference should be made to the original publication.

^{see Annex 1}
This publication was prepared under the authority of Standards Australia Committee ET/7, *Coordinating Committee for Power and Telecommunications (CCPT)*, the successor to the *Joint Committee for the Coordination of Power and Telecommunications Systems (CJC)*, and is one of a Series dealing with technical aspects of coordination which when complete will comprise:

- CJC 1 Joint Use of Poles: The placement on poles of power lines and paired cable telecommunications lines (SAA HB87—1997)
- CJC 2 Unbalanced high voltage power lines: Code of practice for the mitigation of noise induced into paired cable telecommunications lines from unbalanced high voltage power lines (SAA HB88—1997)
- CJC 3 Unbalanced high voltage power lines: Application Guide to the Code CJC 2 for the mitigation of noise induced into telecommunications lines (to be SAA HB89)
- CJC 4 Coordination of power and telecommunications: Manual for the establishment of safe work practices and the minimisation of operational interference between power systems and paired cable telecommunications systems (to be SAA HB100)

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- CJC 5 Coordination of power and telecommunications—Low Frequency Induction (LFI): Code of practice for the mitigation of hazardous voltages induced into telecommunications lines (SAA HB101—1997) (this publication)
- CJC 6 Coordination of power and telecommunications—Low Frequency Induction (LFI): Application Guide to the LFI Code (to be SAA HB102)
- CJC 7 Coordination of power and telecommunications—Crossings Code: The arrangement of overhead power and telecommunications lines, pole stay wires, and suspension wires (SAA HB103—1997)

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