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

**Application Guide to the LFI Code**

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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). It was published by Standards Australia on 5 November 1997.

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***Review of this Publication*** *Suggestions for improvement to this Publication, addressed to the head office 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)**

## **Application Guide to the LFI Code**

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## PREFACE

The publication *APPLICATION GUIDE for THE LOW FREQUENCY INDUCTION CODE* was prepared jointly by the Central Joint Committee for the Co-ordination of Power and Telecommunications Systems (CJC) at the direction of the then Telecom Australia and the Electricity Supply Association of Australia (ESAA) and adopted in November 1981. It was reprinted in November 1984.

In 1997, Standards Australia agreed to reset, republish and distribute the *Application Guide*, making the following changes:

- (i) The title has been rearranged to fit in with a Series of publications on coordination.
- (ii) The term 'Electricity Utility' has been used in place of 'Power Authority', in recognition of recent organizational changes in the Electricity Supply Industry.
- (iii) Telstra, the trading name of Telstra Corporation, has been used in place of Telecom Australia.
- (iv) The flow diagram (Figure 4) has been rearranged.

This publication introduces no substantive change from the earlier edition. Accordingly that edition may continue to be used in parallel with this edition. However, Telstra and member bodies of ESAA are not bound to accept the contents of this Guide in their work practices or procedures. It is acknowledged that practices different from those described might be equally satisfactory depending on site circumstances.

This publication was prepared under the authority of Standards Australia Committee ET/7, *Coordinating Committee for Power and Telecommunications (CCPT)*, the successor to the *Central Joint Committee for the Co-ordination 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)
- 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)
- CJC 6 Coordination of power and telecommunications—Low Frequency Induction (LFI): Application Guide to the LFI Code (SAA HB102—1997) (this publication)
- 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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