

AS 3516.1—1988

Australian Standard[®]

**SITING OF RADIOCOMMUNICATIONS
FACILITIES**

**Part 1—LF, MF AND HF
TRANSMITTING AND HF
RECEIVING FACILITIES**

This Australian Standard was prepared by Committee TE/14/4, Siting of Radiocommunications Equipment. It was approved on behalf of the Council of the Standards Association of Australia on 28 October 1987 and published on 4 January 1988.

The following interests are represented on Committee TE/14/4:

Australian Broadcasting Corporation
Australian Electrical and Electronic Manufacturers Association Ltd
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Department of Arts, Sport, the Environment, Tourism and Territories
Department of Defence
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PREFACE

This Standard was prepared by the Association's Committee TE/14, Radio Communication, through the subcommittee on siting of radiocommunication facilities.

The purpose of this Standard is to prepare a document based on the Interdepartmental Code of Practice for the Installation of Power, Telephone and Remote Control Cables near Ground Radio Stations*. It attempts to embrace the wide range of factors considered to influence the siting of radiocommunications facilities. It takes account of all forms of interference to such facilities from domestic or industrial sources, interaction with other radiocommunication sources, electrical generating equipment, electrical and telephone distribution systems and electrical traction systems. The effect of interference caused by radiocommunications facilities on broadcast reception in the vicinity has also received consideration, as has the general effect of such facilities on the environment.

Similarly the Standard is intended to provide information to State and Local Government Authorities, organizations and members of the public on the effects that existing or planned developments could be expected to have on the operation of such facilities. The Standard is not however, intended as a substitute for consultation between relevant authorities and concerned parties on the impact of the facilities on the community. The Standard therefore, should not be applied without reference to the parties concerned.

The Standard is not a text book but some information of a technical nature is developed in appendices to provide background information for concerned parties who are not expert in the field of radiocommunications. Then in Appendix C information on interference standards published as at 1987, is collated and the relationship between peak and quasi-peak measurements explored on an empirical basis. This information leads to a series of graphs which develop separation distances from sources of interference, which ideally should be adopted for the optimum performance of the radiocommunications facilities. This becomes the basis for the discussions between the planned performance and its realization in a specific community,

The Standard is not intended to be imposed on a community but to be used as the basis for discussion by all interested parties in the expectation of achieving the best possible solution.

* Authorized by the Australian Government Inter-departmental Telecommunications Advisory Committee (TAC) 4 February 1977.

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