



THE WIRELESS INSTITUTE OF AUSTRALIA

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STANDARDS REPORT 2005

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Following the death of Peter Naish, who represented the WIA on Standards Australia Committee RC006, WIA standards representation has been reorganised, with David Wardlaw, VK3ADW to attend Melbourne committee meetings, John Bishop, VK2ZOI Sydney meetings and Gilbert Hughes, VK1GH Canberra meetings, each reporting in sufficient detail to enable another member to attend the same committee in different cities.

The WIA has membership in the following Standards Australia Technical Committees:

RC006 Radiocommunications equipment –General

This Committee deals with standardization in the field of radio communications equipment intended for communications and distance signalling.

Work is proceeding on the following:

Draft Standard AS/NZS 5316.1.200x

This draft is called “General guidelines for fixed, mobile and broadcasting services independent of the operating frequency.”

The object of this Standard is to recommend good practice for, and to set out desirable outcomes in the planning, locating, constructing, commissioning, operating and decommissioning of radiocommunications sites. It addresses particularly the sharing of radiocommunications sites and the management of sites to manage interference and to ensure regulatory compliance.

This standard is not intended to apply to individual amateur stations but would apply to repeaters sharing sites with other users. WIA representatives have proposed an amendment to make it absolutely clear that the standard does not apply to individual amateur stations.

TE007 Human exposure to electromagnetic fields.

This Committee is addressing the following tasks:

- The establishment of maximum permissible exposure limits for electromagnetic energy in prescribed frequency ranges for the purpose of preventing harmful biological effects to the human body;
- The establishment of principles and methods of measurement of relevant electromagnetic fields; and
- Liaising with other organizations as necessary regarding limits of exposure.

Work has commenced on redrafting of the standard AS2772.2 –1988, called “Methods of measurement of electromagnetic interference and the use of associated Equipment.”

The existing Standard was last revised in 1988 and is a very old standard that is badly in need of updating. It is entirely to do with measurement and cannot make any changes to exposure levels.

The work on this standard is in its early stages

Committee TE003 Electromagnetic Compatibility

The prime functions of this Committee is to develop standards specifying:

- Limits of interference for protection of radio receptions;
- Levels of immunity to electromagnetic interference for electrical equipment; and
- Methods of measurement of electromagnetic interference and the use of associated equipment.

This Committee is responsible for the Australian EMC standards and examines IEC/CISPR standards (International Electrotechnical Commission/International Radio Interference Committee) for adoption as Australian Standards. A number of members of the committee attend meetings of CISPR, participating in many of the Working Groups involved in the development of international standards.

A BPL Sub-committee of this Committee has been formed. The WIA will be represented on this Sub-committee which has not yet commenced its work. It will probably work by email.

There will be a CISPR meeting in Australia in 2007 with about 250 delegates from all over the world expected to attend.

Some manufacturers rely on the CISPR 11 (ISM) standard to justify higher ISM band emission levels from their products, even though the standard does not cover the product.

They are also using these higher levels on frequencies outside the ISM bands, a further problem given the fact that much higher limits for interference are allowed in the ISM bands, another potential source of interference for communications services, including the amateur service. Committee members have raised objections to this practise.

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