



## THE WIRELESS INSTITUTE OF AUSTRALIA

**OPEN FORUM, BANKSTOWN, 6 May 2006**

### **REPORT ON STANDARDS**

**David Wardlaw VK3ADW**  
**Coordinator, Standards Group**

#### **WIA involvement with Standards Australia**

David Wardlaw VK3ADW attends Melbourne committee meetings and John Bishop VK2ZOI attends Sydney meetings with Gilbert Hughes VK1GH available for Canberra meetings.

The WIA has membership in the following Standards Australia Technical Committees

#### **RC006 Radiocommunications equipment –General**

Standardization in the field of radio communications equipment intended for communications and distance signaling.

Work has been completed on the following

Draft AS/NZS 5316.1.200x

*General guidelines for fixed, mobile and broadcasting services independent of the operating frequency*

The objective 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 which have an exemption but will apply to repeaters sharing sites with other users

#### **TE007 Human exposure to electromagnetic fields.**

To establish maximum permissible exposure limits for electromagnetic energy in prescribed frequency ranges for the purpose of preventing harmful biological effects to the human body.

- To establish principles and methods of measurement of relevant electromagnetic fields, and
- To liaise with other organizations as necessary regarding limits of exposure

Work is proceeding on redrafting of AS2772.2 –1988

*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 which 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 drawing heavily on international standards from both Europe and North America

### **Committee TE-003 Electromagnetic Compatibility**

The prime functions of TEU 003 to develop standards testifying

1. Limits of interference for protection of radio reception;
2. Levels of immunity to electromagnetic interference for electrical equipment, and
3. 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 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 formulation of international standards.

A BPL subcommittee has been formed. The WIA will be represented on this subcommittee. Work is in progress with concern about the lack of a suitable Australian standard.

CISPR 22 dealing with IT equipment is being amended to cover BPL. At last years annual CISPR meeting agreement could not be reached and the Project was set back to zero. Work seems to be getting underway again but still not fast enough for us in Australia.

The committee is well aware of the interference potential of BPL but does not carry a lot of political clout.

The ACMA is a member of the Committee but changes in personnel brought about by the combining of the ACA and the ABA has not helped as the radio expert is no longer with us.

### **General**

It is now a year closer to the CISPR meeting in Australia to be held in 2007. About 250 delegates from all over the world are expected to attend.

All these committees are joint Australia - New Zealand and the NZART has appointed amateurs who are already on the committees in other roles as their representatives. In this way they save considerable travel expenses. Unfortunately, if there is a conflict the amateur position has to take second place (a very rare occurrence). This cooperation between the WIA and the NZART is very useful as it gives the amateurs an extra voice.

The WIA has set up a secure document facility for use of the Standards Committee.

The IARU Region 3 has a EMC Coordinator, but unfortunately we do not seem to have received any material from him.

The ITU is concerned about the interference potential of BPL and has a resolution concerning the matter. The proponents of BPL seem to ignore the ITU.

David Wardlaw VK3ADW