



July 30, 2003

**Compilation of SACCom Representatives' Reports  
as of July 30, 2003**

<p><b>CISPR SC A</b></p> <p>Title: Radio Interference Measurements and Statistical Techniques</p> <p>Representative: Don Heirman</p>	<p><u>Current Activities:</u></p> <ul style="list-style-type: none"> <li>a) CISPR/A/467/INF announces the soon to be released reorganization of CISPR 16 on measurement instrumentation, methods and uncertainty into 14 publications. They will be available for purchase in September</li> <li>b) CISPR/A/450/DTR was approved and incorporates the general and basic considerations for determining EMC compliance uncertainty. It will be published in September as a technical report</li> <li>c) CISPR/A/468/RVD announces successful vote of a document that introduces the site acceptance criteria between 30 and 1000 MHz for test sites to achieve free space or near free space conditions. This comes into play for rooms that are fully absorber lined or the so-called FAR sites. Final FDIS will be released in September.</li> <li>d) CISPR/A/460/DA is the draft agenda for the CISPR Subcommittee A agenda for Korea in September. CISPR A is responsible for Pub 16 and all amendments which is the basic pub for the product committees to use.</li> </ul>
<p><b>CISPR SC I</b></p> <p>Title: Electromagnetic Compatibility of Information Technology Equipment, multimedia equipment and receivers</p> <p>Representatives: Don Heirman Dave Traver</p>	<p><u>Current Activities:</u></p> <ul style="list-style-type: none"> <li>a) The limits for information technology equipment for use above 1 GHz failed the national committee voting continuing the problem of no limits above 1 GHz. Proposals are suggested that are more stringent than the FCC limits in this frequency range.</li> <li>b) CISPR/I/75/A announces that the national committees request that the use of ferrite tubes on I/O cables and mains cables for tabletop information technology equipment be removed. Overwhelming support for the removal is shown and that and other test setup changes is about to be released as a committee draft for vote</li> <li>c) CISPR/I/77/CDV introduces the use of measurement uncertainty in performing compliance measurements using CISPR Pub 22</li> <li>d) CISPR/A/83/DA is the draft agenda for the meeting of CISPR Subcommittee I in Korea in September. Subcommittee I is responsible for Pub 22.</li> </ul> <p><u>Dave Traver adds:</u></p> <p>WG 2 for Multimedia met at Jackson Hole on in June for three days. They completed basic structure of new Multimedia Emission standard which will be presented at Korea Annual CISPR meetings in late September.</p> <p>They also will be looking to start or establish second Task Force – smaller focus working group, to start on immunity standard for multimedia.</p>
<p><b>CEA/EIA R1/R2</b></p> <p>Title: Safety/EMC</p> <p>Representatives: Dave Traver</p>	<p><u>Current Activities:</u></p> <ul style="list-style-type: none"> <li>a) R1 from CEA/EIA is holding a "discovery group" to discuss immunity standards for receivers. There is a great deal of confusion on immunity from other services, versus specific ATSC Co-Channel issues.</li> </ul>
<p><b>CISPR H</b></p>	<p><u>Current Activities:</u></p>

<p>Title: Limits for the protection of radio services</p> <p>Representative: Werner Schaefer</p>	<p>a) Establishing a survey of EMC product standards on emission measurements (will be TR CISPR 33)</p> <p>b) Defining a rationale for the setting of emission limits (will be TR CISPR 32)</p> <p>c) Establishing a database on the characteristics of radio services (will be TR CISPR 31)</p> <p>d) Compiling an archive of justifications of product limits that exceed generic limits (will be TR CISPR 34)</p> <p>e) <b>61000-6-3</b>: Generic standards - Section 3: Emission standard for residential, commercial and light-industrial environments</p> <p>f) <b>61000-6-4</b>: Generic standards - Section 4: Emission standard for industrial environments</p> <p><u>Additional Comments:</u> The current projects are either maintenance projects or, to a lesser degree, technical. Only the projects on defining a rationale for the definition of limits and the generic emissions standards have a direct impact on product committees. The currently proposed interference model will be revised, due to the many comments received. The generic emissions standards are still at the CD stage (the second CD is currently prepared)</p>
<p><b>IEC TC77 &amp; ACEC</b></p> <p>Title: "Standardization in the field of EMC"</p> <p>Representatives: Prof. Michel Ianoz</p>	<p><u>Current Activities:</u> SC77B and 77C:</p> <p>a) Development of basic and generic EMC standards, b) Horizontal function by providing product committees with specific input related to EMC</p> <p>ACEC:</p> <p>a) Harmonize the EMC work between IEC TCs</p> <p><u>Standards/Revisions recently voted on:</u> SC77B</p> <p>a) <b>IEC 61000-4-2</b> :A CDV on the revision of IEC 61000-4-2, Electrostatic discharge immunity test, is currently under vote. The main change in this revision work is to improve the reproductibility of the test by the specification of a modified electrostatic discharge generator.</p> <p>b) <b>IEC 61000-4-4</b> :A CDV on the revision of IEC 61000-4-4, Electrical fast transient/burst immunity test, has been circulated.</p> <p>Four CISPR/TC77 Joint Task Forces are operational now :</p> <ul style="list-style-type: none"> <li>• TEM testing with the publication of IEC 61000-4-20, in January 2003.</li> <li>• Reverberation chamber testing (draft 61000-4-21) at FDIS stage.</li> <li>• Uniform test arrangements for radiated emission and immunity testing.</li> <li>• Use of fully anechoic rooms.</li> </ul> <p><u>Recently Published Standards:</u></p> <p>a) The 2<sup>nd</sup> edition of IEC 61000-4-6, Immunity to conducted disturbances induced by radio-frequency fields, has been published.</p> <p>ACEC</p> <p>ACEC had a meeting on 2003-05-05/07 in Geneva. Various points have been discussed:</p> <p>a) As the Standardization management Board (SMB) of the IEC is preparing a document on a "system approach" concept, ACEC considers that the definitions of "products" and "systems" in EMC is of highest importance. A document addressed to the SMB has been</p>

	<p>prepared.</p> <p>b) A joint CENELEC/ETSI work is in progress on a product family emission standard for telecommunication networks, The work is based on a mandate given by the European Commission to deliver a harmonized standard for emission limits similar to that of CISPR22. Limits for Power line Communications (PLC) should also be covered. An owner of a network wanting to show compliance of its network with emission limits could use this standard. In a similar way, someone who wants to start using a power network for data transmission and would like to be sure that his network is not producing undesired disturbances which might lead to complaints after the installation will have a useful standard.</p> <p>c) ETSI is asking CISPR to maintain the same limits for frequencies above 1 GHz as the previous ones below 1 GHz in the revision of CISPR22.</p> <p>d) Safety margins related to functional safety aspects may be necessary for specific EM phenomena. A new performance criterion taking into account functional aspects might be necessary to define.</p>
<p><b>ISO TC-20, SC14, WG1</b></p> <p>Title: "Space Systems EMC"</p> <p>Representatives: Noel B. Sargent</p>	<p><u>Current Activities:</u></p> <p>a) Develop Space System standards to aid in the exchange of data for international programs</p> <p><u>New Work Items proposed/approved:</u></p> <p>a) DIS23037 – EMI Test Methods</p> <p><u>Recently Published Standards:</u></p> <p>a) ISO14302 – Space Systems Electromagnetic Compatibility Requirements, 2002-12-15</p> <p><u>Additional Comments:</u></p> <p>Germany has withdrawn as project leader of DIS23037. A new project leader has not been appointed at this time.</p>
<p><b>IEC SC77B, WG9 - ESD</b></p> <p>Title: "ESD"</p> <p>Representative: Douglas Smith</p>	<p><u>Current Activities:</u></p> <p>a) The new CDV of IEC61000-4-2 has been sent out for voting. The voting should be complete in September.</p> <p>The document is different in three ways from the existing document in three ways:</p> <ul style="list-style-type: none"> <li>• The existing waveform is more accurately specified including a continuous initial rise of current, a di/dt specification, and improved calibration techniques.</li> <li>• The test setup is more closely specified, including cable routing and generator positioning for small EUTs.</li> <li>• The test method is changed to include more pulses (50 instead of 10) before the EUT is checked. An escalation strategy has been added that determines how a failure may be handled.</li> </ul>