

***Compilation of SACCom Representatives' Reports as of
May 5, 2003 (Including the March 2003 Report)***

<p>CISPR B</p> <p>Title: Interference Relating to Industrial, Scientific, and Medical Radio Frequency Apparatus</p> <p>Representative: Daniel D. Hoolihan</p>	<p><u>Current Activities</u></p> <p>There was a Working Group 1 meeting of CISPR B in Zurich on February 17 and 18. It was attended by Wayne Hunter of the US TAG. Highlights of his trip report are as follows:</p> <ul style="list-style-type: none"> a) The WG is performing maintenance cycle work on CISPR 11. Arc welders will remain in Group 2 for the present time. Resistance welders will be in Group 1. b) Large Power Drive Systems are being proposed to be restricted to a conducted emissions limit of 50dBuV. c) A new Scope statement for CISPR 11 is proposed – “Procedures are given for the measurement of radio-frequency disturbances and limits shall be restricted to the frequency range of 9 kHz to 400 GHz.” d) A new definition for ISM equipment is being discussed – “Equipment or appliance designed to generate and/or use locally electromagnetic energy for industrial, scientific, medical or similar purposes at any frequency in the range 0 Hz to 400 GHz, or at any frequency in the range 9 kHz to 400 GHz for equipment intended for use in residential (domestic) establishments excluding applications in the field of telecommunications and information technology and other applications covered by other CISPR publications.” e) New definition for Group 1 ISM equipment is being discussed – “Group 1 contains all ISM equipment in which electromagnetic energy is generated and/or used for the internal functioning of the equipment itself at frequencies within the frequency range 0 Hz to 400 GHz, and/or for the treatment of material at frequencies within the frequency range 0 Hz to 9 kHz.” f) New definition for Group 2 ISM is being discussed – “Group 2 contains all ISM equipment in which radio-frequency electromagnetic energy in the frequency range 9 kHz to 400 GHz is intentionally generated and/or used in the form of inductive, capacitive, or electromagnetic radiations for the treatment of material, and Electro-Discharge Machining (EDM) equipment and arc welding equipment.” <p><u>New Work Items proposed/approved:</u></p> <p>Reviewing the Scope of CISPR 11</p> <p><u>Recently Published Standards</u></p> <p>CISPR 11 – Fourth Edition - 2003</p> <p><u>Scheduled Future Projects:</u></p> <p>Several white papers are being generated on various topics for the next meeting in Seoul in September.</p>
<p>CISPR H</p> <p>Title: Limits for the protection of radio services</p> <p>Representative: Werner Schaefer</p>	<p><u>Current Activities:</u></p> <ul style="list-style-type: none"> a) Establishing a survey of EMC product standards on emission measurements (will be TR CISPR 33) b) Defining a rationale for the setting of emission limits (will be TR CISPR 32) c) Establishing a database on the characteristics of radio services (will be TR CISPR 31)

	<p>d) Compiling an archive of justifications of product limits that exceed generic limits (will be TR CISPR 34)</p> <p>e) 61000-6-3: Generic standards - Section 3: Emission standard for residential, commercial and light-industrial environments</p> <p>f) 61000-6-4: 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>IEC TC77 & ACEC</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> SC77C</p> <p>a) 61000-1-5: "High Power Transient Phenomena - High power electromagnetic (HPEM) effects on civilian systems": the Comments CC-130-P1-5 to 77C/130/CD have been answered.</p> <p>b) 61000-2-13: "High Power Transient Phenomena - High power electromagnetic (HPEM) environments – radiated and conducted": the Comments CC-133A to 77C/133A/CD have been answered.</p> <p>c) JWG 77B/77C. The task of this JWG is to write Annex C on an Oscillatory test at frequencies higher than 1 MHz for 61000-4-12 "Oscillatory waves immunity test". The JWG held a meeting in Lausanne on February 26 and 27, 2003 and wrote a first draft of Annex C. This draft will be included in the revised 61000-4-12 by WG11 of SC77B, after its meeting in autumn 2003.</p>
<p>ISO TC-20, SC14, WG1</p> <p>Title: "Space Systems EMC"</p> <p>Representatives: Noel B. Sargent</p>	<p><u>Current Activities:</u> a) Develop Space System standards to aid in the exchange of data for international programs</p> <p><u>New Work Items proposed/approved:</u> a) WD23037 – EMI Test Methods</p> <p><u>Recently Published Standards:</u> a) ISO14302 – Space Systems Electromagnetic Compatibility Requirements, 2002-12-15 Vote closed 17 OCT 01 approved unanimously</p> <p><u>Scheduled Future Projects:</u> a) NWI 214 – Equipment level test methods</p>

<p>ISO TC22/SC3/WG3</p> <p>Title: "Development of International Automotive EMC test standards for vehicle E/E systems as related to immunity"</p> <p>Representatives: Kin P. Moy</p>	<p><u>Current Activities:</u> Development of automotive standards for:</p> <ul style="list-style-type: none"> b) Immunity to conducted transients (power and signal lines) - Components c) Immunity to Electrostatic discharge (ESD) - Components and Vehicle d) Immunity to radiated disturbance - Components and vehicle e) Emissions of conducted transients - Components <p><u>New Work Items proposed/approved:</u> EMC issues related to:</p> <ul style="list-style-type: none"> a) 42 Volt systems b) EU EMC directive: 95/64/EC c) Harmonization of ESD test method between ISO 10605 and IEC 61000-4-2 <p><u>Standards/Revisions recently voted on</u></p> <ul style="list-style-type: none"> a) ISO 10605 "ESD" b) ISO 11452 "Immunity to radiated disturbance - components" Part 1-8 c) ISO 11451 "Immunity to radiated disturbance - vehicle" Part 1-4 d) ISO 7637 "Immunity to conducted transients (power & signal lines) and Emissions of conducted transients (power lines) - Components" Part 1-3 <p><u>Recently Published Standards:</u> Same as the above</p> <p><u>Scheduled Future Projects:</u></p> <ul style="list-style-type: none"> a) Revision of ISO 10605 to communize with IEC 61000-4-2 (ESD) b) Revision of 7637 part 3 (transient coupling to I/O lines) to incorporate new test methods c) Development of new test method for components – magnetic field immunity d) Coordinate development activities with 2 new working groups within SC3: WG 13 (Environmental conditions) & WG14 (42 Volt systems) e) Revision of ISO 11451 & 11452 to communize with EU EMC directive 95/64/EC which has been revised to reference their test methods to ISO standards
<p>RTCA Special Committee 135 (SC-135)</p> <p>Title: "Maintain and Publish RTCA standard DO-160D - "Environmental Conditions and Test Procedures for Airborne Equipment"</p> <p>Representatives: Erik J Borgstrom</p>	<p><u>Current Activities:</u></p> <ul style="list-style-type: none"> c) SC-135 will work on updates and revisions to DO-160. Last meeting was held in February 2003. d) A new Special Committee, SC-202, will work on a new document covering Portable Electronic Devices used on aircraft and their impact on avionics: <p><u>New Work Items proposed/approved:</u></p> <ul style="list-style-type: none"> a) SC-135 has started work on the next release of DO-160, the "E" version. b) SC-202 will meet in May to work on PED issues <p><u>Standards/Revisions recently voted on:</u></p> <ul style="list-style-type: none"> d) Change 3 for DO-160D was released 12/2002. Change 3 is comprised of an entirely new Section 22 and will include new Lightning Induced Transients requirements for Multiple-Burst and Multiple-Stroke effects. <p><u>Scheduled Future Projects:</u></p> <ul style="list-style-type: none"> a) Radiated RF Emissions using a Reverb Chamber <p><u>Additional Comments:</u></p>

RTCA announced a new Special Committee (SC) 202, Portable Electronic Devices. SC-202 task is two-Phased: 1) a Near-Term PED Technology Assessment of the current PED environment and 2) a Longer-Term Assessment of emerging PED technologies. The first SC-202 meeting is scheduled for May 6-7, 2003 at RTCA. SC-202 will deal with EMI problems caused by PEDs (Portable Electronic Devices) used on airplanes, and has been re-activated due to concerns by airlines over the proliferation of unlicensed wireless devices (Bluetooth, 802.11a/b, "Ultra-Wide-Band" and others) and how the use of these devices in-flight will effect the safe operation of the aircraft. Coordination with IEEE committees that write the standards for these technologies may be desirable.