



Standards and Advisory Coordination Committee (SACCom) Representative Report



Date of Report:	5 Nov. 2017	Name of Representative:	R. C. Petersen
Representative's Position:	Executive Secretary/Treasurer SCC39		
Represented Technical Entity:	IEEE Standards Coordinating Committee SCC39/TC34		
Technical Entity Scope/Function:	The development of product performance standards relative to the safe use of electromagnetic energy for specific products that emit electromagnetic energy at frequencies between 0 Hz and 300 GHz.		
Current Activities of Entity:	<u>IEC/IEEE P62704-4</u> : (Determining the Peak Spatial Average Specific Absorption Rate (SAR) in the human body from wireless communications devices, 30 MHz to 6 GHz. General requirements for using the Finite Element Method (FEM) for SAR calculations and specific requirements for modeling vehicle-mounted antennas and personal wireless devices. (IEC/IEEE dual logo project – formerly IEEE P1528.4.) In IEC Ballot.		
New Work Items proposed/approved:	<p>Two PARs were approved for new TC34/SC2 projects P1528.5 “Recommended practice for determining the power density of the electromagnetic field associated with human exposure to mobile devices and network equipment operating between 6 GHz and 100 GHz” (approved December 2016) and P1528.6 “Recommended Practice for Computational Techniques to Determine the Power Density of the Electromagnetic Field Associated with Human Exposure to Wireless Devices and Network Equipment, 6 GHz to 100 GHz” (approved June 2017). The intent is to move these projects forward as IEEE projects and at some point submit them to IEC for consideration as dual logo projects. This was the process followed for the four SCC39/IEC TC106 dual-logo projects—P62704-1, -2, -3, and -4.</p> <p>A decision was made at the Melbourne meeting to replace AHG10 with an IEC/IEEE Joint WG to develop a dual logo IEC/IEEE standard for the assessment of power density of wireless communication devices in close proximity to the head and body by measurement from 6 GHz – 300 GHz.) Target dates: CD – 12/2018; CDV – 12/2019; FDIS/IS – 6/2020.</p>		

Standards¹/Revisions recently voted on²:

The following IEC/IEEE project is now in ballot:

IEC/IEEE P62704-4: CDV in process – Publication target date: September 2018.

Recently published Standards¹:

IEC/IEEE P62704-1 ED 1-2017: Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz: General Requirements for using the Finite-Difference Time-Domain (FDTD) Method for SAR Calculations.

IEC/IEEE P62704-2 ED 1-2017: Determining the Peak Spatial Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz. -- Part 2: Specific Requirements for Finite Difference Time Domain (FDTD) Modelling of Exposure from Vehicle Mounted Antennas.

IEC/IEEE P62704-3-ED 1-2017: Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz: Specific Requirements for using the Finite-Difference Time-Domain (FDTD) Method for SAR Calculations of Mobile Phones.

Scheduled Future Projects:

An IEC/IEEE Joint WG was established at the Oct 2017 IEC TC106 Melbourne meeting to combine IEC 62209-1 and IEC 62209-2 into a single IEC/IEEE standard with the following target dates: CDV – 6/2018; FDIS – 1/2019 This project will replace IEEE 1528-2013. A Project Authorization a Request (PAR) will be submitted to the IEEE SA Standards Board for approval as a dual logo standard. Also, it was agreed that the ongoing IEC PT62209-3 project (developing fast SAR method) is to become a dual logo project.

There are several initiatives and activities regarding EMF compliance assessment of 5G technologies. Two PARs were approved for 5G (mm-wave) compliance assessment; one addresses measurement techniques (P1528.5); the other computational techniques (P1528.6). Both activities are planned as future joint IEC/IEEE activities and dual logo standards. A decision was made at the Oct 2017 IEC TC106 Melbourne meeting to form an IEC/IEEE Joint WG to develop a dual logo IEC/IEEE standard for the assessment of power density of wireless communication devices in close proximity to the head and body by measurement from 6 GHz – 300 GHz. Target dates: CD – 12/2018; CDV – 12/2019; FDIS/IS – 6/2020.

¹ If Standards were harmonized with other organizations, e.g. IEC-CENELEC, please advise)

² Please provide results of vote. If disapproved, please advise major reasons, if known

Activities requiring technical support of the EMC-S:

None at this time.

Activities requiring financial support of SACCom or EMC-S:

None at this time.

Next Meeting:

TC34 Subcommittees meet regularly with the corresponding IEC TC106 PTs and MTs. Next TC34 meeting: Motorola Solutions, Inc, Plantation, FL, 12 – 16 Feb 2018.

Additional Comments:

There is a large overlap in membership of the TC34 Subcommittees and Working Groups with the IEC TC106 Project teams and Maintenance Teams. These groups usually meet concurrently to ensure that the resulting IEC and IEEE standards are in harmony.