



## ***Standards and Advisory Coordination Committee (SACCom) Representative Report***



Date of Report:	4 May 2016	Name of Representative:	R. C. Petersen
Representative's Position:	Executive Secretary/Treasurer SCC39		
Represented Technical Entity:	IEEE Standards Coordinating Committee 39/TC95		
Technical Entity Scope/Function:	The development of standards for the safe use of electromagnetic energy in the range of 0 Hz to 300 GHz relative to the potential hazards of exposure of man, volatile materials, and explosive devices to such energy. It is not intended to include infrared, visible, ultraviolet, or ionizing radiation.		
Current Activities of Entity:	<p><u>PC95.1</u>: Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz.</p> <p>(Revising and merging IEEE C95.1-2005, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz" and IEEE C95.6-2002, "IEEE Standard for Safety Levels with Respect to Human Exposure to Electromagnetic Fields, 0–3 kHz.")</p> <p><u>PC95.3</u>: Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz. (Revision – Approved project.)</p> <p>Revision will incorporate IEEE C95.3.1, i.e., the resulting standard will cover the 0 Hz to 300 GHz frequency range.</p>		
New Work Items proposed/approved:	None since last report		
Standards <sup>1</sup> /Revisions recently voted on <sup>2</sup> :	None since last report		
Recently published Standards <sup>1</sup> :	<p><u>PC95.1-2345</u>: Standard for Military Workplaces—Force Protection Regarding Personnel Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz. (In NATO ratification process as the replacement for NATO STANAG 2345.) Published 30 May 2014—promulgate November 2015 as the replacement for NATO STANAG 2345 Ed 4.</p> <p><u>IEEE PC95.7-2014</u>: IEEE Recommended Practice for Radio Frequency Safety Programs, 3 kHz to 300 GHz.</p>		

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

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

Revision of C95.7-2005—Published 8 August 2014.

Scheduled Future Projects:

New subcommittee established (SC6) to resolve dosimetry issues/models at frequencies between 0 Hz and 300 GHz. The initial focus is on the frequency range where electrostimulation dominates ( $< \sim 100$  kHz). A well-attended workshop was held at the Asilomar Conference Center (near Monterey, CA) 14 June 2015 immediately following the TC95 meetings (11 – 13 June) and immediately before the BioEM 2015 Conference (14 – 19 June) at the same location. The aim of the new SC is to resolve artifacts and other issues in modeling and dosimetry that lead to differences in the basic restrictions and exposure limits between current standards and guidelines, especially at low frequencies, i.e., harmonization of international safety standards and guidelines. Work is now beginning on RF dosimetry modeling at frequencies where heating is the dominant interaction mechanism.

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:

The next SCC39 TC95 meeting series will be held at the Culture and Convention Center Het Pand, Ghent Belgium, 2 – 4 June 2016 (in conjunction with and immediately before BioEM2016)

Additional Comments:

IEEE Std C95.1-2005, C95.1-2345, C95.3-2002 (R2007), C95.3.1-2010, C95.6-2002 (R2007) and C95.7-2005, and C95.7-2014 are available at no cost through the IEEE Get Program at <http://standards.ieee.org/about/get/index.html>