



## ***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 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:

PC95.1: "Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz."

(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.") (PAR extended through 31 December 2018.)

PC95.2: A PAR for the revision of IEEE C95.2-1999, "IEEE Standard for Radio-Frequency Energy and Current-Flow Symbols" was approved by the Standards Board in January. The standard is stable. With reaffirmation no longer an option, the intent is to move forward with little change in order to extend the expiration date of the standard 10 years (the expiration date of the current standard is 31 December 2018.) Once approved an amendment or revision can be developed to address new issues considered relevant. (Approved by SCC39/TC95 – submitted for IEEE sponsor ballot ballot.)

PC95.3: 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.

(Revising and merging IEEE C95.3-2002, "Recommended Practice for Measurements and Computations of Electric, Magnetic and Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300 GHz," and IEEE C95.3.1-2010, "IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 100 kHz," i.e., the resulting

	standard will cover the 0 Hz to 300 GHz frequency range. (PAR extended through 31 December 2018.)
New Work Items proposed/approved:	<u>PC95.4</u> : A PAR for a revision of IEEE C95.4-2002 was approved at the December 2016 Standards Board meeting. This standard is stable. With reaffirmation no longer an option, the intent is to move forward with little change in order to extend the expiration date of the standard 10 years (the expiration date of the current standard is 31 December 2018.) Once approved an amendment or revision can be developed to address new issues considered relevant. (Now in SCC39/TC95 ballot.)
Standards <sup>1</sup> /Revisions recently voted on <sup>2</sup> :	PC94.2: Approved by SCC39/TC95 –Submitted for IEEE sponsor ballot.
Recently published Standards <sup>1</sup> :	<u>C95.1-2345-2014</u> : “IEEE Standard for Military Workplaces—Force Health Protection Regarding Personnel Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz.” Published 30 May 2014. Officially adopted by NATO on 26 November 2015 with the promulgation of NATO Standardization Agreement (STANAG 2345 ed. 4). Replaces NATO STANAG 2345 Med. (Edition 3).  <u>IEEE PC95.7-2014</u> : IEEE Recommended Practice for Radio Frequency Safety Programs, 3 kHz to 300 GHz. Revision of C95.7-2005—Published 8 August 2014.
Scheduled Future Projects:	A new subcommittee (SC6) was established to resolve dosimetry issues/models at frequencies between 0 Hz and 300 GHz. The aim of the new SC is to resolve artifacts in modeling and dosimetry that lead to differences in the basic restrictions and exposure limits between various standards and guidelines (e.g., ICNIRP), especially at low frequencies. Initially, the focus is on resolving uncertainties related to the electrostimulation threshold at frequencies below 100 kHz. Work is also 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 Chandler Community Center, Chandler, AZ, 22-24 January 2018.
Additional Comments:	IEEE Stds C95.1-2005, C95.1a-2010, C95.1-2345-2014, C95.2-1999 (R2005), C95.3-2002 (R2007), C95.3.1-2010, C95.6-2002 (R2007) and C95.7-2014 are available at no

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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

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