

PAR FORM SCC-34/SC-2/WG-1

- 1. Sponsor Date of Request [**January 21, 1998**]
- 2. Assigned Project Number [P1528]
- 3. PAR Approval Date [03/19/98]
- 4. Project Title, Copyright Agreement and Working Group Chair for This Project

I will write a Standards Publication with the following TITLE

[] Standard [for] (Document stressing the verb "SHALL"), or

[**X**] Recommended Practice for (Document stressing the verb "SHOULD"), or

[] Guide for (Document stressing the verb "MAY")

IEEE Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques

I hereby acknowledge my appointment as Official Reporter to the

[IEEE SCC-34, Subcommittee 2 (Protocols for Determining the Spatial-Peak Specific Absorption Rate Associated with the use of Wireless Transceivers)]

In consideration of my appointment and the publication of the Standards Publication identifying me, at my option, as an Official Reporter, I agree to avoid knowingly incorporating in the Standards Publication any copyrighted or proprietary material of another without such other's consent and acknowledge that the Standards Publication shall constitute a "work made for hire" as defined by the Copyright Act, and, that as to any work not so defined, I agree to and do hereby transfer any right or interest I may have in the copyright to said Standards Publication to IEEE.

Signature of Official Reporter _____

Name [**Howard I. Bassen**]

Date [**January 22, 1998**]

Title [**Chair of SC-2 (Protocols for Determining the Spatial-Peak Specific Absorption Rate in the Human Body due to Wireless Communications Devices) and Chair of Working Group 1 (Experimental Techniques)**]

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5. Describe this project: (Choose ONE from each group below)

- a. **[No]** Update an existing PAR
- b. **[Yes]** New Standard
 [No] Revision) of an existing standard
 [No] Supplement to an existing standard
- c. **[X]** Full Use (5-year life cycle)
 [] Trial Use (2-year life cycle)
- d. **[March 1999]** Fill in target completion date for submittal to IEEE Standards Review Committee (RevCom).

6. Scope of Proposed Project (What is being done, including the technical boundaries of the project?)

[The scope of this project is to describe the concepts and specify techniques, instruments, calibration techniques, models for validation, uncertainties and limitations of systems used for measuring the electric field strength for purposes of determining the spatial-peak specific absorption rate (SAR) in simulated tissue models, including anatomical models of the human body. This document will not recommend specific SAR values since these are found in other documents, e.g., IEEE C95.1-1991.]

7. Purpose of Proposed Project (Why is it being done, including the intended user(s) and benefits to that user(s))

[The purpose of this document is to specify experimental protocols for the measurement of spatial-peak specific absorption rates (SAR) in the human body of users of certain hand-held wireless transceivers including cellular and personal communications services (PCS) telephones. The SARs will be determined from electric-field strength measurements made in simulated anatomical tissue models. The intended users of this

practice will be (but will not be limited to) wireless handset manufacturers that are required to certify to the FCC that their products (products authorized for use in the US) meet specified SAR criteria (in accordance with provisions of the Telecommunications Act of 1996). (The FCC encourages the development of consensus standards and encouraged establishment of this subcommittee.) Techniques specified in this practice can also be used for designing more efficient antennas, e.g., for purpose of reducing SAR and extending battery life of hand-held wireless terminals. The benefits to the user include standardized and accepted measurement protocols, calibration techniques, and means for assessing overall uncertainty that when followed will yield valid and repeatable data.]

8. Sponsor (Give full name; spell out all Acronyms) Society/Committee:

[IEEE Standards Coordinating Committee 34 - Product Performance Standards Relative to the Safe Use of Electromagnetic Energy]

9.

9(a.1) [**Yes**] Are you aware of any patents, relevant to this project? (YES, [attach explanation] or No)

This document will contain many references to specialized instruments that can be used for carrying out the protocols in this practice. Many of the instruments are covered by one or more patents, US and foreign patents. The recommended practice will suggest the use of these instruments but will not specify manufacturer or model numbers.

9(a.2) [**Yes**] Are you aware of any copyrights relevant to this project? (YES, [attach explanation] or No)

This document will contain references to papers and books that provide a foundation for this recommended practice. The copyrighted materials will be cited by reference; contents of book chapters will be condensed considerably and paraphrased. Thus, while the document will involve concepts described in copyrighted sources, the contents of the copyrighted material will not be quoted or otherwise reproduced directly.

9(a.3) [**No**] Are you aware of any trademarks relevant to this project? (YES, [attach explanation] or No)

9b. [**Yes**] Are you aware of any other standards or projects with a similar scope? (YES, [attach explanation] or No)

IEEE SCC-28/SC-2 develops standards, e.g., *IEEE Standard Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields—RF and Microwave*, IEEE C95.3-1991, for characterizing external and internal fields in a generally broad sense but does not provide detailed recommended protocols for determining SARs associated with specific devices or products.

9c. [**Not known at this time**] Is this standard intended to form the basis of an international standard? (Yes, or No [attach explanation])

9d. [Yes] Is this project intended to focus on health, safety or environmental issues? (Yes, [attach explanation], No, or Do Not Know))

It will focus on health and safety in an indirect manner in that its protocols can be recommended for use to ensure compliance with safety-related recommendations found in other standards, including IEEE SCC-28 standards, e.g., *IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz*, IEEE C95.1-1991.

10. Proposed Coordination/Recommended Method of Coordination (Coordination is accomplished in any of the following three ways: Circulation of Drafts or Liaison Membership or Common Membership.)

10a. Mandatory Coordination

SCC 10 (IEEE Dictionary) and IEEE Staff Editorial Review	Circulation of Drafts
SCC 14 (Quantities, Units, and Letter Symbols)	Circulation of Drafts

10b. IEEE Coordination requested by Sponsor: (Use additional page if necessary). If you believe your project will require a Registration Authority, please list IEEE RAC (refer to Working Guide).

IEEE Standards Coordinating Committee 28 (Non-Ionizing Radiation)	Circulation of Drafts/ Common Membership
IEEE Microwave Theory and Techniques Society (Non-Ionizing Radiation)	Circulation of Drafts/ Liaison Members
IEEE Engineering in Medicine and Biology Society	Circulation of Drafts
IEEE Electromagnetic Compatibility Society (Standards)	Circulation of Drafts
IEEE Antennas and Propagation Society (Antennas)	Circulation of Drafts
IEEE Industrial Electronics Society	Circulation of Drafts
IEEE Instrumentation and Measurements Society (TC-4 - High Frequency Instrumentation and Measurement)	Circulation of Drafts
Health Physics Society (D. Sliney)	Circulation of Drafts
Bioelectromagnetics Society (W. Wisecup)	Circulation of Drafts
Cellular Telecommunications Industry Association	Circulation of Drafts

Personal Communications Industry Association

Circulation of Drafts

If coordination is not required, please attach an explanation.

10c. Additional Coordination Requested by Others. (Leave blank. This will be completed by the Standards Staff).

11. Submitted by: (This MUST be the Sponsor Chair or the Sponsor's Liaison Representative to the IEEE Standards Board)

Signature of Submitter _____

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