Email This Letter

16 March 2006

Ronald C Petersen
R C Petersen Associates, LLC
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Re: P1528.3 - Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz: Specific Requirements for Finite Difference Time Domain (FDTD) Modeling of Mobile Phones/Personal Wireless Devices

Dear Ronald:

I am pleased to inform you that on 16 March 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2010. A copy of the file can be found on our website at http://standards.ieee.org/board/nes/projects/1528-3.pdf.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at http://standards.ieee.org/guides/par/roster.xls. Please forward this list to me via e-mail at j.haasz@ieee.org no later than 14 June 2006.

Please visit our website, IEEE Standards Development Online (http://standards.ieee.org/resources/development/index.html), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
Program Manager
International Stds Programs and Governance
Standards Activities

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PAR FORM

PAR Status: New PAR
PAR Approval Date: 16 March 2006
PAR Signature Page on File: Yes

1. Assigned Project Number: P1528.3

2. Sponsor Date of Request: 2005-12-16

3. Type of Document: Recommended Practice for

4. Title of Document:
Draft: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz: Specific Requirements for Finite Difference Time Domain (FDTD) Modeling of Mobile Phones/Personal Wireless Devices

5. Life Cycle: Full-Use

6. Type of Project:
6a. Is this an update to an existing PAR? No

6b. The Project is a: New Standard

7. Working Group Information:
Name of Working Group: Computational Techniques Working Group
Approximate Number of Expected Working Group Members:25

8. Contact information for Working Group Chair:
Name of Working Group Chair: Wolfgang Kainz
Telephone: +1 301 827 4972 **FAX:** +1 301 827 4947
Email: wolfgang.kainz@fda.hhs.gov

9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:
Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:
Telephone: FAX:
Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:
Name of Sponsoring Society and Committee: SCC39-International Committee on Electromagnetic Safety International Committee on Electromagnetic Safety
Name of Sponsoring Committee Chair: Ronald C Petersen
Telephone: 908-234-0373 **FAX:** 908-470-9230
Email: r.c.petersen@ieee.org
Name of Liaison Rep. (if different from the Sponsor Chair):
Telephone: FAX:
Email:

Name of Co-Sponsoring Society and Committee:
Name of Co-Sponsoring Committee Chair:
Telephone: FAX:
Email:
Name of Liaison Rep. (if different from the Sponsor Chair):
Telephone: FAX:
Email:

11. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: June 2009

12. Projected Completion Date for Submittal to RevCom: June 2010

Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:

13. Scope of Proposed Project:

The scope of this project is to describe the concepts, techniques, models, validation procedures, uncertainties and limitations of the finite-difference time-domain technique (FDTD) when used for determining the spatial-peak specific absorption rate (SAR) in standardized human anatomical models. These models are exposed to personal wireless devices, e.g. mobile phones. It recommends and provides guidance on modeling of personal wireless devices and provides benchmark data for simulation of such models. It defines model contents and provides guidance on meshing and test positions at the anatomical models. This document will not recommend specific SAR values since these are found in other documents, e.g., IEEE C95.1-1999.

Is the completion of this document contingent upon the completion of another document? Yes

This document will be developed in parallel with P1528.1, which describes the general requirements for the FDTD methods used in P1528.3

14. Purpose of Proposed Project:

The purpose of this document is to specify numerical techniques, and anatomical models to determine spatial peak specific absorption rates (SAR) in the human body of persons exposed to personal wireless devices. SAR will be determined by applying Finite Difference Time Domain (FDTD) techniques to simulate the field conditions produced by wireless devices. It will use standardized anatomically correct models of the human anatomy.

15. Reason for the Proposed Project:

Computational electromagnetics techniques have reached a level of maturity which allows their use in compliance assessments of professional and consumer wireless communication devices. The increasing costs of assessing product compliance with exposure standards calls for new compliance techniques. Such techniques should be time efficient and cost effective. The benefits to the user include standardized and accepted protocols and standardized anatomical models, validation techniques, benchmark data, reporting format and means for estimating the overall uncertainty in order to produce valid and repeatable and reproducible data. Intended users of this practice will be (but will not be limited to) wireless communication devices manufacturers, service providers for wireless communication that are required to certify that their products comply with the applicable SAR limits and government agencies.

16. Intellectual Property:

a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR? Yes 2005-06-02

b. Is the sponsor aware of copyright permissions needed for this project? No

c. Is the sponsor aware of trademarks that apply to this project? No

d. Is the sponsor aware of possible registration activity related to this project? No

17. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

18. Is there potential for this document (in part or in whole) to be adopted by another national , regional or international organization? Do not know at this time

If yes, the following questions must be answered:

Organization Name?

Technical Committee

International Contact

Information?

19. Will this project result in any health, safety, or environmental guidance that affects or applies to human health or safety? No

If yes, please explain:

This recommended practice does not focus directly on safety and health. It can be used for assessing compliance of certain communications devices with established safety criteria of contemporary standards and guidelines, e.g., IEEE Std C95.1, the International Commission on Non-Ionizing Radiation Protection (ICNIRP) guidelines, and the requirements adopted by various government agencies. It does not recommend or endorse any specific safety limits for human exposure.

20. Sponsor Information

a. Is the scope of this project within the approved/scope/definition of the Sponsor's Charter? Yes

If no, please explain:

b. The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee? Yes

21. Additional Explanatory Notes: (Item Number and Explanation)

The titles of the documents referenced are as follows:
IEEE Std C95.1-2005, Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
IEEE P1528.1, Recommended Practice for 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