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23 September 2005

Ronald C Petersen
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Re: PC95.7 - Recommended Practice for Radio Frequency Safety Programs - 3 kHz to 300 GHz

Dear Ronald:

I am pleased to inform you that on 22 September 2005 the IEEE-SA Standards Board approved the above referenced project until 31 December 2008. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/C95-7.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 21 December 2005.

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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CC: rtell@radhaz.com

PAR FORM

PAR Status: Modified New PAR
PAR Approval Date: 2005-09-22
PAR Signature Page on File: Yes

1. Assigned Project Number: PC95.7

2. Sponsor Date of Request: 2005-07-18

3. Type of Document:

4. Title of Document:

Draft: Recommended Practice for Radio Frequency Safety Programs - 3 kHz to 300 GHz

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? Yes

If Yes: Indicated PAR number/approval date: C95.7 - 2004-06-24

If Yes: Is this Project in Ballot now? Yes

6b. The Project is a: New Standard

7. Working Group Information:

Name of Working Group: Terminology, Units of Measurements and Hazard Communications Working Group

Approximate Number of Expected Working Group Members:35

8. Contact information for Working Group Chair:

Name of Working Group Chair: Richard A Tell

Telephone: (702) 645-3338 **FAX:** (702) 645-8842

Email: rtell@radhaz.com

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: August 2004

12. Projected Completion Date for Submittal to RevCom: August 2005

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:

This recommended practice presents guidelines and procedures that can form the basis of a radio frequency exposure safety program (RFSP) that provides guidance for controlling hazards associated with RF sources that operate in the frequency range of 3 kHz to 300 GHz. This is a general-purpose document intended for application in most RF exposure scenarios with the goal of avoiding potentially hazardous exposures to electromagnetic fields, currents, and/or contact voltages. In some complex cases, however, the required elements of an adequate RFSP may exceed those described in this document. In such cases, additional guidance may be necessary to effect a satisfactory RF safety solution. There are many ways of accomplishing the goal of a satisfactory RF safety program. While this recommended practice outlines certain schemes for providing a safe environment for persons who may be exposed to excessive levels of electromagnetic energy, other schemes may be equally effective.

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

No

14. Purpose of Proposed Project:

These guidelines are provided to assist in the development of RF safety programs for the use of RF energy-producing devices, equipment, and systems, and to control any potentially hazardous exposure of workers or the public. The means for accomplishing this are by first characterizing areas into one of four exposure categories according to the potential risk for exposure above prescribed RF exposure limits, as described in 1.3, then specifying the appropriate controls to reduce the likelihood of over-exposure. For many situations, this guidance will assist in the development of site-specific RF safety programs, while in others the programs may be developed to apply across a wide range of exposure environments. These guidelines are designed to complement the ICES TC-95 family of standards on electromagnetic safety, but may find use in the development of effective programs to ensure conformance with other guidelines, standards, or regulations for controlling human exposure to electromagnetic energy. This Recommended Practice provides guidelines for establishing RF safety programs, but other recommendations

may already exist that are deemed sufficient by local regulatory authorities for achieving RF safety in particular environments. Hence, other recommendations could potentially replace or be used in conjunction with the recommendations in this document. Guidelines developed for specific applications, for example, radio amateur operations [B4], and electrical transmission/distribution personnel working near mobile phone base-station antennas installed on electric utility structures [B23], represent two such examples.

15. Reason for the Proposed Project:

Presently, there exist no recommended approaches for developing safety programs by organizations wishing to implement the use of IEEE C95.1. Users would include industrial companies, Federal, state, and local government agencies. These organizations do not have any documentation of recommended ways for developing and implementing safety programs that are directed to the issue of radiofrequency fields. This document would fill this gap in practical guidance.

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2004-05-06
- 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? Yes

P1654 PAR Working Group Chair: Nestor Kolcio (614-873-6473)(nkolcio@att.net) Official reporter: Gernot K. Brandt (425-255-0866)(ger2@mindspring.com)

Similar Scope Project Information:

SimSP: Power Engineering Society Transmission and Distribution SimProjNo: P1654 SimProjD: 12-08-2004 SimTitle: Draft Guide For Establishing A Safety Program For Protection Of Electrical Workers In The Vicinity Of Wireless Communication Antennas Adjacent or Attached To Electrical Power Line Structures.

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? Yes

If yes, please explain:

The proposed project does not set safety limits but provides recommended procedures for developing and implementing safety programs relative to the presence of radio frequency fields

and/or associated currents that could be hazardous to individuals. The recommended methods for developing a safety program would form the single source of such information for industrial hygienists, engineers, radiation protection specialists, health and safety officers and others charged with the responsibility of such programs. Despite the existence of IEEE C95.1-1991 (1999 edition) (IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz), there exists no source of useful information for the practical application of the standard in real-world radio frequency exposure situations. This document could find wide spread use both nationally and internationally since no other such document exists.

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)

11. This standard is already in ballot - the initial ballot opened in January 2005. A recirculation ballot will open before 1 August, 2005.

13. The principal change in the Scope of this modified PAR, compared to the earlier approved PAR, is pointing out that there may be other ways to accomplish the intended purpose of the Practice. The specific language in the Scope is: "There are many ways of accomplishing the goal of a satisfactory RF safety program. While this recommended practice outlines certain schemes for providing a safe environment for persons who may be exposed to excessive levels of electromagnetic energy, other schemes may be equally effective."

14. The main change in the Purpose of this modified PAR compared to the earlier approved PAR is providing the user with a clearer indication that other, existing specialized programs may exist that could be effective for very specific RF safety aspects.

17. We are aware of an activity with the PES (P1654) to develop a guide for protection of power line workers who work near communications antennas mounted on power line towers. The P1654 project is a very narrow project that treats a singular and specific aspect of RF safety. Our project PC95.7 is a much more comprehensive and widely applicable document. The WGs are aware of each other's drafts.

20. This standard was developed by SCC-28 - whose P&Ps have been approved.