



# ICES

## International Committee on Electromagnetic Safety

### *Approved Minutes*

### **ICES TC95 Meeting**

**Tri-Service Research Laboratory, Bldg 3260,**

**Fort Sam Houston, San Antonio, TX, 78234-2644**

**Friday, 18 Jan 2013**

**0830 – 1200**

#### **1. Call to Order**

Chairman Chou called the meeting to order at 0835 h.

#### **2. Introduction of those Present**

Each of the attendees introduced her/himself. (See Attachment 1 for the attendance list.)

Chou encouraged everyone who had not yet submitted a biosketch for the ICES website to please do so at their earliest convenience.

#### **3. Approval of Agenda**

Woolery (IEEE Staff – Sr. Program Manager) asked to add an agenda item “IEEE Update.” The item was added as item 5 – items that followed were moved down. Following a motion by Meltz, seconded by Ziskin, the agenda was approved as amended (see Attachment 2).

#### **4. Approval of 16 June 2012 TC95 minutes**

Following a motion by Bushberg that was seconded by Ziskin, the minutes of the June 2012 TC95 meeting was approved as presented.

#### **5. IEEE Update**

Woolery presented an update on recent changes in IEEE SA policies (see Attachment 3). In response to a question from Klauenberg, Woolery explained that the NATO project is not considered a jointly developed standards project (Slide 4). Although the standard is being developed under an agreement between IEEE-SA and the NATO Standardization Agency (NSA), NSA is not considered a standards developing organization for this project. In response to a question from Meltz regarding the determination of whether or not information used in the development of a standard is in the public domain (Slides 7 – 9), Woolery said that she will send Petersen a detailed document outlining IEEE policy on the matter. Woolery reminded everyone that the PAR for PC95.1-2345 expires 31 December 2013; a PAR extension request will have to be submitted before 21 October.

## 6. ICES Chairman's Report

Bodemann reviewed an AdCom teleconference presentation by IEEE Legal regarding issues relating to the response to the GAO Report. The issue, which was also discussed at yesterday's SC3/SC4 meeting, is that the response had the appearance of being an IEEE position – not the position of individuals who happen to be ICES members. He pointed out that ICES can respond to such inquiries provided the response is first vetted by IEEE Legal. He briefly reviewed discussions from yesterday's AdCom meeting, including the decision to remove the response to the GAO questions that was included in Attachment 4 of the June 2012 SC3/SC4 meeting minutes, and references to the response that appear in the body of the minutes. The AdCom will begin a dialog with IEEE to establish an acceptable ICES policy for responding to future requests that will permit ICES to respond as an entity. In response to a question from Meltz regarding speaking at public meetings, Woolery explained that the speaker should inform the audience that he/she is a member of ICES but is presenting his/her opinion and not speaking for ICES. Bodemann announced that the next TC95 meetings will be held 6-8 June in Thessaloniki, Greece (immediately before BIOEM 2013). The venue of the next winter meeting will be decided by the results of a straw poll of the membership that will be conducted later in the year. Possible candidates are Plantation, FL and Pismo Beach, CA.

### ACTION ITEM 1

**Meltz will explore potential meeting facilities for the Winter meetings in or near Pismo Beach, CA, including travel information, and provide this information to Petersen for distribution with a straw poll.**

Bodemann announced that SC1 Co-chairman DeFrank will be stepping down – Frank Colville will assume DeFrank's responsibilities as SC1 Co-chair. Bodemann thanked DeFrank for his service, especially for moving the project forward by revising and combining C95.3-2002 and C95.3.1-2010 into a 1<sup>st</sup> working draft.

## 7. TC95 Chairman's Report

Chou noted that he will be attending meetings in China and Taipei in March, where he will present updates on ICES standards activities. In China, he will be visiting Soochow University where he will be giving presentations on RF bioeffects and medical applications research. He pointed out that researchers at Soochow University have been reporting the results of studies that demonstrate beneficial effects of RF exposure in animals, specifically in reducing effects from ionizing radiation. He will be presenting three reports at the Progress in Electromagnetic Research Symposium (PIERS) meeting in Taipei in a session that he organized. The first report will be an update on the revision of C95.1; the second will discuss a new ISO EMI standard (ISO14117-2012) relating to EMI effects on implantable medical devices. He will encourage manufacturers of RF-emitting equipment to be aware of immunity issues of implantable medical devices. The third is a report rebutting the rumor that microwaves, e.g., microwave ovens, cause free radicals and cancer. He pointed out that several ICES members are co-authors of the three papers.

Chou concluded his report by urging members to become more active, e.g., participate on the subcommittees and working group, join the ballot groups, and encourage knowledgeable colleagues to join and participate on the subcommittees and working groups.

## **8. Executive Secretary's Report**

Petersen reviewed recent changes in IEEE-SA policies and procedures and the status of ICES standards projects (see Attachment 4). Considerable discussion followed regarding the elimination of interpretations (Slides 17-19). Some favored the change, citing the issues and problems associated with the last interpretations request (Dyberg), others thought it was a bad idea. For example, Weller raised the issue of what procedure will replace the interpretations process when questions arise regarding interpretations of the standards. Petersen noted that most of the requests received over the years were not interpretation requests but requests for explanation, which were addressed directly by the subcommittees.

## **9. Treasurer's Report**

Petersen presented the Treasurer's Report (see Attachment 5). He noted that there will be charges for refreshments and other items for this meeting, probably of the order of \$1000. There will also be charges to SunFace Design for ICES website maintenance. He noted that because of the IEEE's not-for-profit tax status, the Treasurer has to complete an annual "L50S" form to reconcile all expenses, income, interest, etc., which will be due in March or April.

## **10. Membership Chairman's Report**

Murphy reviewed the status of the TC95 membership (see Attachment 6). He pointed out that the membership now stands at 133 with members from 25 countries. In response to a question regarding where the committee membership list is posted, Murphy explained that one place it can be found is on the private pages of the ICES website (<http://www.ices-emfsafety.org/>).

## **11. Topic Presentations**

### **a) Smart meters**

Shokolnikov presented an update of work carried out by Exponent to evaluate RF exposure to a 2.4 GHz mesh-system smart meter network (see Attachment 7). Considerable discussion of terminology regarding the terms "pulse" versus "burst" modulations (Slide 10). Specifically, there appears to be a perception by some members of the public that pulsed RF, e.g., that used for many radars, is harmful. The smart meter uses a different type of modulation for communications, called direct sequence spread spectrum (DSSS) modulation. The signals are emitted in short bursts and are completely different from the pulsed output of many radars, for example. The consensus of the discussion was that correct terminology is important when communicating with a lay audience. Tell noted that besides those discussed, other modalities are also used for smart meters, e.g., spread spectrum at 900 MHz.

### **b) Interphone Study**

Shokolnikov also gave a presentation on the Interphone Study where he discussed the question of evidence for an association between RF exposure and cancer from a physicist's perspective (see Attachment 8). He pointed out that the Interphone Study has been the subject of criticism but usually for the wrong reasons. Data dredging can usually result in correlations and associations but from a physicist's perspective, any mechanism based on photon interaction with DNA, is implausible. He noted that one problem with many studies is that hypothesis-testing and hypothesis-generation is carried out simultaneously, the scientific process is not followed. He noted that the real issue is

communicating with a public that doesn't understand the meaning of p-values and such. Kavet pointed out that the public doesn't understand physics either or believe explanations from a physics perspective. Their response is usually "the epidemiology says..."

## **12. Reports from the Subcommittees**

### **a) SC1 (Measurements and computations)**

DeFrank reported that a few members of SC1 met during the summer to develop an outline for the revision/merging of C95.3-2002 and C95.3.1-2010, and again later to review the first draft, which is mainly a "cut-and-paste" composite of the two standards. He noted that there is considerable repetition, and many of the sections require updating. The draft was circulated for comment and several comments were received – both editorial and substantive. The intent is to meet in a few months to address the comments. He also announced that he will be stepping down as co-chair and Frank Colville, who is in his organization, will take his place.

### **b) SC2 (Safety programs)**

Tell reported that SC2 met this week to review a number of comments and issues. The intent is to try to resolve the comments and prepare a new draft before the June meeting. He noted that the revised draft will address a number of comments raised by NIOSH.

### **c) SC3 (Safety levels – 0 Hz to 3 kHz)/SC4 (Safety levels – 3 kHz to 300 GHz)**

Ziskin reported that the 1<sup>st</sup> subcommittee ballot on PC95.2345 yielded almost 500 comments – only a few were repetitious. The response rate was greater than 75%, which meant the ballot was valid; the approval rate was ~70%, which meant that draft was not approved. The intent is to hold a face-to-face EWG, probably in February, followed by a number of teleconferences to address the comments and prepare a draft for recirculation ballot before the June meeting. Kavet said that he sees resolution of induced and contact limits, as an issue, e.g., the limits differ between PC95.1 and PC95.1-2345. Ensuring that the limits do not widely diverge should be a goal.

### **d) SC5 (Effects of EM fields on blasting operations)**

Chou reported that C95.4 is stable and there are no issues that are crucial and have to be addressed at this time but the subcommittee will follow developments that could warrant changes to the standard and act appropriately. He also reported that Bob Needy, SC5 Co-chairman, will be retiring soon and stepping down as co-chair. Ray Harmon, who has considerable experience assessing shipboard exposure, will replace Needy.

## **13. ICES Website Improvement**

Chou solicited input in the form of short articles, biosketches and similar material of interest to the membership for posting on the website and asked members to log on occasionally and offer suggestions for improvement. In response to a question from Murphy regarding the possibility of a Facebook page, Bodemann noted that many individuals are skeptical of Facebook and recommended that we do not.

**14. New Business**

No new business.

**15. Future Meetings**

The next TC95 meeting will be held 8 June 2013, Thessoloniki, Greece, immediately before BIOEM 2013.

**16. Adjourn**

There being no further business, the meeting was adjourned at 1150 h.

**Action Items**

	<b>Action</b>	<b>Assigned to</b>	<b>Date Due</b>	<b>Status</b>
1.	Explore potential meeting facilities for the winter TC95 meetings in or near Pismo Beach, CA, including travel information, and provide this information to Petersen for distribution with a straw poll.	Meltz	15 Feb.	

**Sign-in Sheet  
TC95 Meeting, 18 January, 2013  
Ft Sam Houston, TSRL  
San Antonio, TX**

	<b>Last Name</b>	<b>First Name</b>	<b>Affiliation</b>	<b>Country</b>	<b>IEEE Member</b>
1.	Alon	Leeor	NYU Medical Center	US	
2.	Bailey	William	Exponent	US	Yes
3.	Baron	Dave	Retired	US	
4.	Bodemann	Ralf	Siemens	DE	Yes
5.	Bushberg	Jerrold	UC Davis/NCRP	US	
6.	Cho	Gene Young	NYU Medical Center	US	
7.	Chou	C-K	Motorola Solutions	US	Yes
8.	Cleveland	Robert	EMF Consulting	US	Yes
9.	Colville	Frank	US Army PHC	US	
10.	Camacho	Jeff	US AFRL	US	
11.	D'Andrea	John	US Navy	US	
12.	DeFrank	John	US Army PHC	US	Yes
13.	Deniz	Cem Muurat	NYU Medical Center	US	
14.	Douglas	Mark	IT'IS	CH	
15.	Elder	Joe	Independent Consultant	US	
16.	Haes	Donald	BAE Systems	US	Yes
17.	Harmon	Ray	US Naval Surface Warfare Cntr.	US	

18.	Ikehata	Masateru	Railway Technical Res Inst	JP	
19.	Kavet	Robert	EPRI	US	Yes
20.	Klaunenberg	B Jon	USAFRL/HED	US	
21.	Meltz	Marty	Retired	US	Yes
22.	Mundy	Wes	AltaLink	US	
23.	Murphy	Michael	USAFRL/HED	US	
24.	Packer	Malcolm	Harris RF Communications	US	
25.	Petersen	Ron	R C Petersen LLC	US	Yes
26.	Reilly	J Patrick	Metatec Associates	US	Yes
27.	Shkolnikov	Yakov	Exponent	US	
28.	Smit	Niels	Royal Netherlands Navy	NL	
29.	Tell	Ric	R Tell Associates, Inc.	US	Yes
30.	Testagrossa	Paul	Alcatel Lucent	US	Yes
31.	Weller	Robert	FCC	US	Yes
32.	Wessel	Marvin	Global RF Solutions	US	Yes
33.	Woolery	Joan	IEEE Staff Liaison	US	IEEE Staff
34.	Ziskin	Marvin	Temple University	US	Yes



# ICES

International Committee on Electromagnetic Safety

**Approved Agenda  
ICES TC95 Meeting**

**Tri-Service Research Laboratory, Bldg 3260,  
Fort Sam Houston, San Antonio, TX, 78234-2644**

**Friday, 18 Jan 2013  
0830 – 1200**

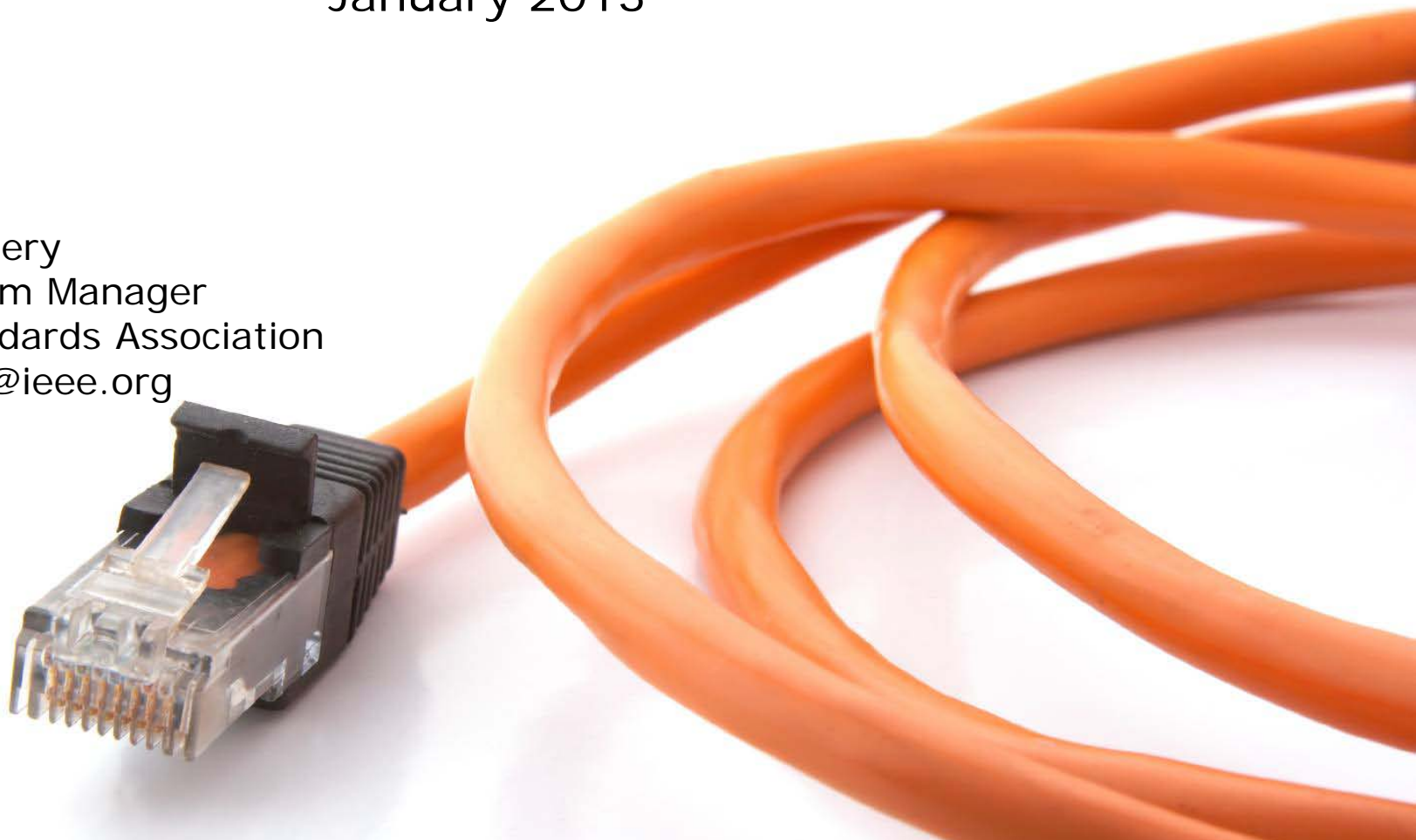
- |  |                           |
|--|---------------------------|
| <b>1. Call to Order</b>                              | <i>Chou</i>               |
| <b>2. Introduction of those Present</b>              | <i>All</i>                |
| <b>3. Approval of Agenda</b>                         | <i>Chou</i>               |
| <b>4. Approval of 16 June 2012 TC95 minutes</b>      | <i>Chou</i>               |
| <b>5. IEEE Update</b>                                | <i>Woolery</i>            |
| <b>6. ICES Chairman's Reports</b>                    | <i>Bodemann</i>           |
| <b>7. TC95 Chairman's Report</b>                     | <i>Chou</i>               |
| <b>8. Executive Secretary's Report</b>               | <i>Petersen</i>           |
| <b>9. Treasurer's Report</b>                         | <i>Petersen</i>           |
| <b>10. Membership Chairman's Report</b>              | <i>Murphy</i>             |
| <b>11. Topic presentations</b>                       |                           |
| a) Smart meters                                      | <i>Shkolnikov</i>         |
| b) Interphone Study                                  | <i>Shkolnikov</i>         |
| <b>12. Reports from the Subcommittees</b>            |                           |
| a) SC1 (Measurements and computations)               | <i>DeFrank/Douglas</i>    |
| b) SC2 (Safety programs)                             | <i>Tell</i>               |
| c) SC3 (Safety levels – 0 Hz to 3 kHz)               | <i>Dovan/Kavet</i>        |
| d) SC4 (Safety levels – 3 kHz to 300 GHz)            | <i>Thansandote/Ziskin</i> |
| e) SC5 (Effects of EM fields on blasting operations) | <i>Needy/Hay</i>          |
| <b>13. ICES Website Improvement</b>                  | <i>Chou</i>               |
| <b>14. New Business</b>                              | <i>Chou</i>               |
| <b>15. Future Meetings</b>                           | <i>Chou</i>               |
| a) 8 June 2013, Thessoloniki, Greece                 |                           |
| <b>15. Adjourn</b>                                   |                           |



# News from the IEEE-SA

January 2013

Joan Woolery  
Sr. Program Manager  
IEEE Standards Association  
[j.woolery@ieee.org](mailto:j.woolery@ieee.org)



# Contents

- 2013 IEEE-SA Policy Changes
- Putting borrowed material in drafts
- PARs expiring in 2013

# 2013 IEEE-SA Policy Changes

# 2013 IEEE-SA Policy Changes

## 1. Term for initial ballots and recirculation ballots

- IEEE-SASB Operations Manual now explicitly states that initial ballots are at least 30 days and recirculation ballots are at least 10 days.

## 2. Co-sponsored Projects

- IEEE-SASB Operations Manual clause 5.1.2.2 now defines the rules for co-sponsoring projects.

“For projects that are co-sponsored, the parties shall identify a Primary Sponsor; the Primary Sponsor’s P & P are used for the project. Project oversight will be performed by the Primary Sponsor. In addition, the parties shall complete and sign a pro-forma Joint Sponsorship Agreement (JSA)”

For co-sponsoring details, see:

<http://standards.ieee.org/develop/policies/opman/sect5.html>

# Putting Borrowed Material in an IEEE draft standard

# IEEE-SA Standards Board Bylaws

**“7.2.1 All contributions from previously Published sources that are not Public Domain shall be accompanied by a Copyright Permission Form that is completed by the copyright owner, or by a person with the authority or right to grant copyright permission. The Copyright Permission Form shall outline the specific material being used and the planned context for its usage in the IEEE standard.”**

# Material from non-IEEE publications

1. Download copyright permission forms at:  
<http://standards.ieee.org/develop/permissionltrs.zip>
2. The zip file contains the following four files:
  - **IEEE Permission Request\_2009.doc** - Request to use material when we don't plan to change the material
  - **IEEE Permission Request\_Modify Text\_2009.doc** - Request to use material when we plan to modify the material
  - **Permission Response to IEEE\_2009.doc** - Response from the copyright owner to our request to use material without modifying the material
  - **Permission Response to IEEE\_Modify Text\_2009.doc** - Response from the copyright owner to use material and modify the material
3. The *IEEE Permission Request* letter is completed by the WG Chair and sent to the publisher, or a person with the authority or right to grant copyright permission.
4. The *Permission Response* letter is partially completed by the WG Chair and sent to the publisher, or a person with the authority or right to grant copyright permission, to complete and return on the entity's letterhead.

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  - The WG just needs to get something in writing from the author saying that he/she is the author of the material contributed to IEC and he/she is also contributing the material to the IEEE.
- If the material was modified at IEC, and an IEEE WG would like to use the **modified material** (instead of the original contribution), the WG must get permission from IEC. See <http://www.iec.ch/about/copyright/> and send an email to [info@iec.ch](mailto:info@iec.ch).



# Material from IEEE publications

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- Request permission from IEEE-SA at [stds-ipr@ieee.org](mailto:stds-ipr@ieee.org)
- The IEEE-SA may consult the WG Chair or Sponsor of the standard to ensure that the new project does not use the borrowed material in a way that the original WG does not agree with. This will prevent conflicts between IEEE standards

## Borrowing Material from other IEEE publications

- If the material was not modified, no permission is required
- If the material was modified, permission is required from IEEE

It is not necessary to obtain permission from the IEEE when referencing the title or designation of an IEEE publication (e.g. a standard, a journal).

# PARs Expiring in 2013

# PARs expiring this year

**PC95.1-2345** (TC 95/SC 4): Standard for the Evaluation and Control of Personnel Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz

## Remaining NesCom submission deadlines:

- 24 Jan (4 March agenda)
- 15 Mar (26 April agenda)
- 3 May (12 June agenda)
- 12 July (21 August agenda)
- 30 Aug (11 October agenda)
- 21 Oct (9 December agenda)

# Thank You

# ***ICES***

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## ***International Committee on Electromagnetic Safety***

### **Secretary's Report**

**TC95 Meeting**

**18 January 2013**

**Ft Sam Houston, San Antonio, Texas**

**R Petersen**



# *ICES –Administrative*

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## **Policies and Procedures (P&P):**

- Defines organizational structure (SCC-39)
- Based on “SA Baseline P&Ps for Type 2 SCCs” (with deviations)
- **Revision of 2007 P&Ps accepted by SASB, December 2012**
- Working Group (SC) P&Ps are now Required – SCC39 WG P&Ps due before March SASB meeting

## **Annual Report (2011-2012):**

- **Accepted by SASB, December 2012**
- Overview presented by Secretary Petersen at December 2012 SASB Meeting

## **Interpretation requests:**

- No outstanding interpretation requests

## *ICES TC95 Standards: Status*

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- **C95.1-2005:** (Safety levels, 3 kHz – 300 GHz)
  - ❑ Approved 2005; published 2006
  - ❑ PAR for revision – approved (June 2010)
  - ❑ Revision will incorporate C95.6 (Safety levels, 0 Hz to 3 kHz)
  
- **PC95.1a:** (Safety levels, 3 kHz – 300 GHz)
  - ❑ Published May 2010
  - ❑ Amendment 1 (sets ceiling values for induced and contact current)
  
- **C95.2-1999:** (RF energy and current flow symbols)
  - ❑ Reaffirmed 2005
  - ❑ PAR for Revision approved (November 2010)

## *ICES TC95 Standards: Status*

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- **C95.3-2002**: (RF measurements and computation: 100 kHz to 300 GHz)
  - ❑ Reaffirmed 2008
  - ❑ Revision will incorporate C95.3.1
- **PC95.3.1**: (Measurements and computation: 0 Hz to 100 kHz)
  - ❑ Incorporates IEEE 1460
  - ❑ Published May 2010
- **C95.4-2002**: (Safe distances from antennas during blasting operations)
  - ❑ Reaffirmed 2008



## *ICES TC95 Standards: Status*

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- **C95.6-2002:** (Safety levels – 0 to 3 kHz)
  - ❑ Reaffirmed 2007
  - ❑ Will be incorporated into C95.1 (Safety levels, 3 kHz to 300 GHz)
  
- **C95.7-2005:** (RF safety programs)
  - ❑ PAR for Revision approved (November 2010)
  
- **1460-1996:** (Measurement of quasi-static electric and magnetic fields)
  - ❑ Reaffirmed 2008
  - ❑ Incorporated into C95.3.1
  - ❑ Action – Withdraw (2013 or earlier)

## *New Project Authorization Requests (PARs)*

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- **PC95.1**: (Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz)
  - ❑ PAR approved June 2010
  - ❑ Revision and merge of C95.1-2005 and C95.6-2002 into a single standard

**PC95.1-2345**: (Standard for the Evaluation and Control of Personnel Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz)

- ❑ PAR approved September 2009
- ❑ Civil standard for consideration as NATO STANAG 2345 replacement
- ❑ **Action –Submit PAR extension Request before 21 October 2013**

## *New Project Authorization Requests (PARs)*

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- **PC95.3**: (Recommended Practice for Measurements and Computations of Electric, Magnetic and Electromagnetic Fields With Respect to Human Exposure to Such Fields, 0 Hz-300 GHz)
  - ❑ PAR approved February 2012
  - ❑ Revision and merge of C95.3-2002 and C95.3.1-2010 into a single standard

## *ICES TC34 Standards: Status*

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- **P1528-201X**: (Peak Spatial-Average SAR in the Human Head from Wireless Communications Devices: Measurement Techniques)
  - ❑ Revision of IEEE 1528-2003/2005
  - ❑ Ballot approved
  - ❑ **Action – Incorporate minor comments into draft**
  - ❑ **Action – Submit to SASB Review Committee for approval (March 2013)?**

## *TC34: IEC/IEEE Jointly Developed Standards Projects*

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### **IEC/IEEE P62704-1:**

(Peak spatial average SAR in the human body from wireless communications devices, 30 MHz - 6 GHz: General requirements for using the FDTD method.)

- ❑ P1528.1 PAR approved September 2005; PAR extension request approved December 2009
- ❑ PAR withdrawn March 2011
- ❑ Approved as jointly developed standard project March 2011
- ❑ CD circulated – comments due end of January

## *TC34: IEC/IEEE Jointly Developed Standards Projects*

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**IEC/IEEE P62704-2:** (Peak spatial average SAR in the human body from wireless communications devices, 30 MHz - 6 GHz: Specific requirements for FDTD modeling of vehicle mounted antenna configurations.)

- ❑ P1528.2 PAR approved September 2005; PAR extension request approved December 2009
- ❑ PAR withdrawn March 2011
- ❑ Approved as jointly developed standard project March 2011
- ❑ CD circulated – comments due end of January

## *TC34: IEC/IEEE Jointly Developed Standards Projects*

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**IEC/IEEE P62704-3**: (Peak spatial-average SAR in the human body from wireless communications devices, 30 MHz - 6 GHz: Specific requirements for FDTD modeling mobile phones/personal wireless devices)

- ❑ P1528.3 PAR approved March 2006
- ❑ PAR withdrawn February 2011
- ❑ Approved as jointly developed standard project March 2011
- ❑ CD circulated – comments due end of January

## *TC34: IEC/IEEE Jointly Developed Standards Projects*

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**IEC/IEEE P62704-4**: (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-element method (FEM) for SAR calculations and specific requirements for modeling vehicle-mounted antennas and personal wireless devices)

- P1528.4 PAR approved June 2008
- PAR withdrawn December 2011
- Approved as jointly developed standards project December 2011
- Circulation of CD expected by end of this year



# *Changes: Reaffirmation/Stabilization*

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## **Effective Jan 1, 2012:**

- There will be no new reaffirmation or stabilization ballots
  - ❑ The only actions allowed by Sponsors will be:
    - Revision
    - Amendment/Corrigendum
    - Withdrawal
  - ❑ Standards will have a 10 year maintenance cycle (i.e., extended from 5 years to 10 years after the last date of approval or maintenance action)
  - ❑ The status for a standard will be either **active** or **inactive**
  - ❑ All standards must have a revision approved by the IEEE-SASB prior to the close of Year 10 in order to remain active
  - ❑ Any standard not approved as a revision will become inactive after year 10

# *SCC39 Standards: Expiration Dates*

Number	Year	Expiration Date	Approval Date
1460	1996	12/31/2018	12/10/1996
1528	2003	12/31/2018	06/12/2003
1528a	2005	12/31/2018	09/22/2005
C95.1	2005	12/31/2018	10/03/2005
C95.1a	2010	02/02/2020	02/02/2010
C95.2	1999	12/31/2018	09/16/1999
C95.3	2002	12/31/2018	12/11/2002
C95.3.1	2010	3/25/2020	03/25/2010
C95.4	2002	12/31/2018	11/11/2002
C95.6	2002	12/31/2018	09/12/2002
C95.7	2005	12/31/2018	09/22/2005



# *Changes: Inactive Standards*

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## **Categories of Inactive Standards:**

- **Inactive – superseded:** These standards have been replaced with a revised version of the standard
- **Inactive – reserved:** These standards are removed from active status through an administrative process for standards that have not undergone a revision process within 10 years
- **Inactive – withdrawn (valid for standards categorized after 1 January 2012):** These standards have been removed from active status through a ballot where the standard is made inactive as a consensus decision of the balloting group

# *Changes: Revisions*

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## **Revisions:**

- A revision ballot may result in:
  - ❑ Changes to the standard
  - ❑ Changes to only the references or bibliography
  - ❑ No changes at all
- In the event that no changes are made, the standard will retain its designation (i.e., the year will not change).
- The title page will reflect the fact that a maintenance action occurred but no changes were made.
- This will keep the standard active for another 10 years

# *Changes: Interpretations*

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## **Elimination of Interpretations:**

- The IEEE- SA Standards Board approved a proposal to eliminate issuing interpretations in June 2011

## **Rationale:**

- Inefficient and a risk
  - ❑ Interpretation responses made in an attempt to clarify ambiguous text to be derived from a process that does not inform all materially interested parties of the activity
  - ❑ Does not require consensus to be achieved through the Sponsor balloting process

# *Changes: Interpretations*

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## **Solution:**

- More sensible to simply funnel comments on standards to Sponsors for handling
  - ❑ Any document changes would appear in a revision amendment/corrigendum
  - ❑ All require PARs – an open process & consensus through balloting
- Therefore interpretations as discrete documents are discontinued

# *Changes: Interpretations*

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## Going Forward:

- Elimination of Interpretations
  - ❑ In order to maintain ANSI accreditation, we are required to have an interpretations policy.
    - Our interpretations policy can be that we do not supply Interpretations
- Changes became effective 1 January 2012
- Changes to Ops Man, By Laws , etc.
  - ❑ “ The IEEE does not offer interpretations of its standards”

# *Changes: Individual Experts*

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## Individual Expert:

- Members of the working groups who are not SA members but contributed significantly to the development of standard could participate in sponsor ballots if approved by the SASB as “individual experts”
- Individual Expert category has been eliminated
- Now, only IEEE-SA Members or individuals who pay a fee are permitted to vote on IEEE sponsor ballots
- TC95 SC/WGs follow IEEE sponsor balloting procedures
- **TC95 members and members of the TC95 SCs and WGs who are not IEEE-SA members and desire to vote on a standard should join the WG ballot groups**



# *Secretary's Report*

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# *Thank You*

