



ICES

International Committee on Electromagnetic Safety TC-95 SC-1: Measurement Techniques

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prepared by
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26SEP2005

IEEE C95.3.1/D1.0

Draft Recommended Practice for Measurements and Computation of Electric, Magnetic and Electromagnetic Fields With Respect to Human Exposure to Such Fields, 0 - 100 kHz

Minutes and Action-Items Teleconference 26SEP2005

Attendees: Ron Petersen, Dave Umbenstock, Howard Bassen, Wolfgang Kainz, Joel Cohen, Joe Bowman, Ed Mantiplay, Paul Testagrossa, Dave Baron

Bassen: welcome participants and discussion of mtg. materials

Bassen: review scope and purpose

Petersen: propose do defer review of scope and purpose after document draft is finished

Bowman: references to "antenna" measurement should be removed

*****Action-Item:** **Bassen:** revise sections and remove references to "antenna" measurement

HB - DO this **OVER**

Bassen: existing 1460 Std. to be partially included in C95.3.1, emphasis was to include EASS and other sources up to 100 kHz

All: should B or H field used in C95.3.1?

Action-Item: **Bowman:** highlight in document where B should be added **COMPLETE NOV - 2005**

Bowman: NIOSH *Manual for Measuring Occupational Electric and Magnetic Field Exposures* available at <http://www.cdc.gov/niosh/98-154pd.html>

All: discussion on *in-situ* vs. *internal* field, *in-situ* is defined in C95.6 as internal field, C95.3.1 will use only *internal* field but will reference C95.6

Action-Item: **Bassen:** revise section 1.5.3 >>> **PETERSEN TO DO NOV 2005.**

Petersen: IEEE has dictionary with definitions, C95.3.1 only needs definitions which are not in IEEE dictionary or differ from IEEE dictionary

Action-Item: **Bowman:** problems should be at the end and not at the beginning, will provide suggestion and comments to rearrange section measurement problems to Umbenstock>>>

Bowman Completed this - Revision Of Section 4 title Instead

Action-Item: **Umbenstock:** add text re "MPEs are met -> basic restrictions are met but not vice versa" - **COMPLETED**

Bassen: C5.3.1 does not include EMI

Bowman: WHO will establish criteria for ELF measurements and the precautionary principle, should this be included in C95.3.1?

Action-Item: **Umbenstock:** will use EN 50357 material for measurement section of C95.3.1 - **DONE**

Action-Item: **Umbenstock & Baron:** will add "calibration" section, will remove calibration from other sections – DUE Oct. 28, 2005 >> **DEFER TO UMBDENSTOCK AND BARON NOV 2005**

Action-Item: **Umbenstock:** will provide material for "calibration" section to Bassen **DEFER TO UMBDENSTOCK AND BARON NOV 2005**

Umbenstock: Who is C95.3.1 aimed for?

Bassen: intended to resolve measurement issues to show compliance with C95.1

Action-Item: **Petersen:** will format C95.3.1 draft and link all references (cross-references) **ONGOING – PETERSEN SEND TO ALL DEC 20, 2005**

Action-Item: **Umbenstock & Bassen:** combine section 4 and 6 to one measurement section

Action-Item: **Umbenstock & Baron:** add measurement of pulsed electromagnetic fields to section 5 "instrumentation" and add information how to characterize inductive loop sources

Action-Item: **Bassen:** organize teleconference Oct. 5 2005, All: agenda items for this telecon to Bassen, Bassen will draft agenda and send out to SC-1

Action-Item: **Bassen:** will revise section "Measurements of Potentially Hazardous Exposure Fields" with input from Umbenstock (EN 50357), Bassen will add to this section info related to measuring high fields and necessary precautions for the surveyor

Action-Item: **Bowman:** will send text re safety precautions and measurements in explosive environment to Bassen.

Action-Item: **Baron:** will send to Bassen information re exposure meters (clamp-on meters)

Action-Item: **Petersen:** will find out if IEEE Std. 1460 can be included in C95.3.1 as annex of just be referenced - **COMPLETED**

Petersen: there is no problem in coping text partially of 1460 into C95.3.1

Bassen: establish new working group to resolve "Definitions of Possible EMF Metrics for C95.6", working group (WG) members are: Bowman (WG head), Kainz, Mantiply, Baron, working group will have telecon on Oct. 6 2005 10:00-11:30 EDT; Kainz, Mantiply, Baron send their telephone no. to Bowman

Bassen: next TC95-SC1 meeting ????????