



**IEEE ELECTROMAGNETIC COMPATIBILITY SOCIETY
SPECIAL COMMITTEE 1, SMART GRID
Annual Meeting August 10, 2012**

Please Reply to:
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**AGENDA
5:45 pm to 6:35 pm**

1.	Welcome & Introductions (Chair)	2 minutes
2.	Duty to Inform (Patents Slides)	3 minutes
3.	Discuss Charter	5 minutes
4.	EMCS Website TAC and SC1	10 minutes
5.	Review Tutorial	10 minutes
6.	Project Proposals	10 minutes
7.	Plans for 2012 Denver	5 minutes
8.	SG Coordination	2 minutes
9.	Next Meeting Venue and Time	2 minutes
10.	Adjournment	1 minutes



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MINUTES – Friday, August 10, 2012

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SC MEMBERS PRESENT

Don Heirman – Chair
Bill Radasky – Vice-Chair
Kermit Phipps – Secretary

TC Officer Members	Members	
SDCom – Alistair Duffy	David Thomas	Qin Yu
TC-2 – Don Heirman	Tetsuya Tominaga	Petre-Marian Nicolae
TC-3 – Fred Heather	Stanislav Skibin	Osama Mohammed
TC-4 – Phil Berger	Hua Zeng	Harry Hodes
TC-5 – Bill Radasky	Phillip J. Caldwell	R.B. Timens
TC-6 – Karen Dyberg	Jessie Thomas III	Don Lee
TC-9 – Allen Roden	Ed Savage	Francesco Ferranti
SC-2 – Magnus Olofsson	Klyte Mills	Mike McInevrey
	Randy Long	Benoit Nadeua
	Chiu Wong	Mario deAranzeta
	Petre-Marian Nicolae	Richard Georgeman
	Gingsheng Zeng	Don Heirman
	Gary Stuyvenberg	Shirish Shah
	Andy Drozd	Diethard Hansen
	Walter Scott	

OTHERS PRESENT

None

MINUTES – Monday, 10 Aug 2012

IEEE EMCS TAC SPECIAL COMMITTEE 1 – SMART GRID

5:45 p.m. to 6:35 p.m.

1.0 Call to Order and Introductions

The Chair, Don Heirman, opened the SC1 meeting at 5:45 p.m. There were 29 attendees.

2.0 Duty to Inform

The Chair, Don Heirman informed the group of the general requirements for duty to inform.

3.0 Discuss Charter and TC Transition

The Chair, Don Heirman reviewed the special committee charter:

This special committee is concerned with coordinating the EMC Society activity on providing EMC principles for those organizations and associated documentation and specifications that address the efficient use of the AC power grid including the control of power entering a house or building. Such control may be from a meter at the point of power entry into these facilities to control incorporated into appliances and other electronic devices in these facilities. Such controllers may be sources of undesirable RF emissions and at the same time vulnerable to the RF environment which speaks to the need for EMC. It is expected that the coordination aspect of this special committee will involve several EMCS Technical Committees including

TC2 EMC Measurements

TC3 EM Environments

TC4 EMC Design

TC5 High Power EM

TC7 Low Frequency Phenomenon

TC9 Computational EM

After discussion of the meeting agenda was presented and the following discussion points were pursued:

- Channel initial interest into work projects such as SC1 members providing inputs
- Provide a roadmap that helps in where we are going
- Make better known the EMC-S role in SG interoperability to other societies and the public
- The role and function of TC7 along with its sister TCs
- Project for the group is to identify available standards on smart grid, (most are emissions)
- Andy Drozd discusses the important of modeling (ref. 1567.1 and 1567.2)
- How to work as a team, possible webinar every 2 months
- Standards Committee to meet face-to-face

4.0 EMCS Website TAC and SC1

Don Heirman illustrated the navigation of the EMC-S website and how to find the TAC and SC1 information to the group. The group then discussed that they would like to have added to the SC1 a webpage a link containing pertinent smart grid URLs and took the following action item:

Action Item – all members are to forward URLs that are found regarding smart grid operation, problems associated with smart grid, and any work or schedules of smart grid implementation.

Action Item – Duffy suggested the use of Google Scholar.

5.0 Review Tutorial and General Discussion

The tutorial was well received with an average of ___ people attending each session peaking at ___ total in attendance.

Only 1 paper on smart grid and effects of corona but was 1 of the 3 best papers.

The group settled on the following issues that the committee would not address:

- Focus will be electronics, no health related impacts or public perceptions
- Will not focus on cyber security

Bill discussed that the design immunity should be the first step. Walter stated that this immunity is the way to cover most threats. The design to 195V/m would be covered. Europe has intrinsic immunity and test levels for each type of EMC.

What SC-1 does go to NIST and IEC.

The 1613 amendment has started but is moving slowly.

Action Item – find a member that lives in a city that has implemented smart meter reading and obtain feedback on operating experience.

Action Item – Update TC chairs.

Action Item – Harry Hodes write a white paper type on the generic failure data type of test done.

Action Item – Benoit submit nuclear data as types of tests and levels.

6.0 Future Tutorial/Workshop

The group discussed the following items as possible topics for 2013 workshop/tutorial:

- Existing Technology Update
- Linking communication issues with interference
 - a) Smart Meters
 - b) Possible Smart Meter Error Demonstration
 - c) Real life issues
- EM Environment
- System Level Overview and Aspects

7.0 2012/2013 Plans (Denver Symposium)

The following items were discussed for future activities:

- Have another tutorial on Smart Grid
- Hold the next SC1 meeting just after the tutorial in Denver
- Review initial batch of papers from call for papers
- Consider a separate standard on EMC aspects of Smart Grid
- Have a demo or another tutorial of EMC issues with SG metering

Action Item - SC 1 officers will come up with topics.

Action Item - SC 1 group to provide workshop proposals by December.

- Authors should be identified.
 - Benoit- commercial routers being installed in substations and failing 6 months later.

There will also be a Working Group Meeting September 11 and 12 at Washington Labs and a webinar in approximately 3 months.

8.0 SG Coordination

The chair, Don Heirman discussed the coordination of the EMC-S knowledge base and how to bring together the expertise from most of the EMCS TCs to address SG from the viewpoint of their specialties

9.0 Next Meeting Venue and Time

The group will meet by way of webinar, in approximately 3 months, and teleconference as required throughout the year, the next physical meeting will be held after the workshop or tutorial at the EMC-S Denver Symposium.

10.0 Adjourn

The Chair, Don Heirman closed the meeting at 6:35 p.m.