

**IEEE ELECTROMAGNETIC COMPATIBILITY SOCIETY
SPECIAL COMMITTEE 1 – SMART GRID MINUTES
Monday, 5 August 2013
Denver, CO USA**

SC MEMBERS PRESENT

Don Heirman – Chair
Bill Radasky – Vice-Chair and meeting secretary

Attendees

Magnus Olofsson, TC7 Chairman	Andy Drozd
Galen Koepke	Jerry Ramie
Bob Hofmann	Dave Thomas, TC7 Vice-Chair
Qin Yu	Petre-Marian Nicolae
Robert Smolenski	Benoit Nadeau
Randy Long	Clifford Hauser
Matt Juszczak	Math Bollen
Theo Laughner	Jaroslaw Luszcz

1.0 Call to Order and Introductions

The Chair, Don Heirman, opened the SC1 meeting at 5:45 p.m. There were 18 attendees including the chair and vice chair.

2.0 Duty to Inform

The Chair, Don Heirman informed the group of the general requirements for duty to inform by showing the IEEE patent slides.

3.0 Review Minutes from 2012 Meeting

Don reviewed the minutes and identified the action items at the 2012 meeting, which are repeated here. Most were not closed, as there was a disruption in the activities of this Special Committee due to the untimely death of its secretary—Kermit Phipps who was remembered for his contributions to the committee with a moment of silence.

2012-1: Action Item – Members to find a member that lives in a city that has implemented smart meter reading and obtain feedback on operating experience.

2012-2: Action Item – secretary to update TC chairs.

2012-3: Action Item – Harry Hodes is asked to write a white paper type on the generic failure data types of tests done.

2012-4: Action Item – Benoit Nadeau is asked to submit nuclear data with regard to the types of tests and levels.

2012-5: Action Item - SC 1 officers will come up with topics for future consideration.

2012-6: Action Item - SC 1 group is to provide workshop proposals by December.

2012-7: 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.

2012-8: Action Item – Duffy suggested the use of Google Scholar.

Upon reflection, it was decided to continue the above actions with the expectation of clearing them before the next meeting in Raleigh, North Carolina at the IEEE EMC Symposium in 2014.

4.0 Charter and other Discussions

There were no requests to change the charter as indicate on the web site:

<http://www.emcs.org/committees/sc01/index.html>

Don reiterated that SC1 is the Society coordination group on Smart Grid issues and solutions. It does not operate as other TCs in that it does not promote symposium papers (but will review them if submitted) but rather coordinates with other TCs as they apply their expertise to Smart Grid projects. SC1 would also be the source of any EMCS position paper on the subject that is submitted to the EMCS Board of Directors for approval.

It is important to note that the following EMCS technical committees are de facto members of SC1. The contact persons are the chairs of these TCs and the Standards Development and Education Committee (SDECom):

TC 2 EMC Measurements

TC 3 EM Environments

TC 4 EMC Design

TC 5 High Power EM

TC 7 Low Frequency EMC

TC 9 Computational EM

Standards Development and Education Committee (SDECom)

There were then several brief presentations:

a. Galen Koepke reviewed the NIST Electromagnetic Interoperability Issues Working Group (EMIWG) “white” paper on EMC. The document largely covers the need for ensuring SG product reliability and interoperability when placed in the EM environment. Immunity testing in particular was recommended. Here is the access to the document: <http://www.nist.gov/smartgrid/research-reports-presentations.cfm>

b. Don presented information that is on the IEC web site on Smart Grid, including a roadmap. Here is the link for that document: <http://www.iec.ch/smartgrid/roadmap/>
The EMC Smart Grid access is: <http://www.iec.ch/emc/smartgrid/>

c. Don then also indicated the work of the IEEE on Smart Grid including a brief overview of IEEE 2030, which is a guideline on many aspects of Smart Grid. See this link: <http://standards.ieee.org/findstds/standard/2030-2011.html>

5.0 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 (See Action Item 2012-7 above).

6.0 Project Proposals

The committee suggested that a list of IEEE EMC standards applicable to Smart Grid be generated. This was identified as a new action item.

2013-1: Attendees to provide the SC1 Chair a list of SG EMC standards.

The committee then further supported action item 2012-7 above to get information on actual situations and EMC issues that impact Smart Grid operation.

7.0 Plans for 2014 in North Carolina

The committee supported proposing a tutorial or workshop in cooperation with TC7 for next year's symposium.

2013-2: SC1 and TC7 officers are to propose a tutorial or workshop for the 2014 symposium. A discussion was held on whether or not SC1 should draft an EMCS position paper on EMC aspects of Smart Grid. There was no resolution but the Chair was open for suggestions after the meeting.

The committee also agreed to review any Smart Grid papers that might be submitted for 2014.

8.0 Smart Grid Coordination

Coordination was mostly covered already in clause 4.0. There was a sense that the SC wanted to be part of the question reviews for the RABQSA/iNARTE test questions for those topics that cover Smart Grid.

9. Next Meeting Venue and Time

There was a consensus to have another face-to-face meeting in Raleigh between 5:45 and 6:30 on the first night of the symposium week.

10. Adjournment

Meeting adjourned at 6:30 pm