

SC 1 (Smart Grid) Meeting Minutes

Wednesday, 7-27-16 at 5:45 pm

Prepared by

Bill Radasky, acting secretary

Attendees

Ed Hare	ARRL	w1rfi@arrl.org
Don Heirman, chair	Don HEIRMAN Consultants	d.heirman@att.net
Mike McInerney	USACE-ERDC	mkmcinerney@ieee.org
Dheena Moongilan	Nokia Bell Labs	Dheena.Moongilan@nokia_bell_labs.com
Petre-Marian Nicolae	Univ. of Craiova, Romania	pnicolae@alth.ucv.ro
Bill Radasky, vice-chair	Metatech Corporation	wradasky@aol.com
Abtin Spantman	Danfoss	abtin.spantman@danfoss.com
Dave Thomas	Univ. of Nottingham, UK	dave.thomas@nottingham.ac.uk

Roles of Attendees

Don Heirman is the Chair of SC 1 and the Chair of TC 2, Bill Radasky is the Vice Chair of SC1 and the Chair of TC 5, Mike McInerney is the Vice Chair of TC 5, Dave Thomas is the Chair of TC 7, Petre-Marian Nicolae is the Vice Chair of TC 7, and Ed Hare is the member of the EMCS Standards Development and Education Committee.

Discussion Points

Don Heirman opened the meeting with a few general points. He would like to have teleconferences for SC 1 every two months or so.

We looked at the SC 1 web page and Don reminded the group that we are a coordinating committee. He periodically asks other TCs about their involvement in Smart Grid activities.

He also mentioned that we could consider an IEEE EMC Society position paper in the future when we have more information to put forward to the EMCS Board of Directors, and he also mentioned the possibility of an article in the EMC Society Magazine.

Don Heirman suggested, and SC 1 agreed, that next year we should hold our SG tutorial on Monday afternoon followed directly by the SC 1 meeting. The idea would be to shorten the tutorial by about 1 hour and to use that extra hour at the beginning of the SC 1 meeting immediately following the close of the SG tutorial.

We reviewed the minutes of several past meetings and the membership. It was agreed that a way to capture the past attendance and membership was to put together a table that indicated the member names and which years they attended the SC 1 meetings. **Action Item 2016-1:** Bill Radasky agreed to put such a draft together.

We reviewed the minutes of the Dresden meeting of SC 1, and Bill Radasky will transfer the attendance information from that meeting along with the current meeting (and past meetings) to the new attendance roster. There was a minor issue raised about the Dresden minutes regarding the new NIST work dealing with Smart Grid: the question was whether Perry Wilson mentioned the plans for a laboratory in Boulder or Gaithersburg at the time. It is apparently clear that the laboratory is now in Gaithersburg.

Action Item 2016-2: Don agreed to collect paper ideas from SC1 members to use in a new column in the EMC Society magazine making the reader aware of the activity of SC1

We reviewed the action items from 2015:

2015-1	Closed
2015-2	Open: Radasky will contact MT 12 regarding the 4-18 coupler
2015-3	Open
2015-4	Open: Dave Thomas will provide the latest CENELEC document
2015-5	Closed
2015-6	Open: Radasky will request the load information regarding meter tests
2015-7	Closed

Mike McInerney next presented a paper dealing with the SPIDER program which attempts to use microgrids to avoid problems for military bases if there is a collapse of the commercial power grid. The problem is that while this program is funded and has performed some experiments, there has been no consideration of lightning, other EMC, or EMP aspects. The US Congress is concerned about this lack of attention and they are requesting feedback from the SPIDER program to inform Congress how these other aspects will be considered in the future.

Abtin Spantman next mentioned that his company has a factory in which experiments could be performed in the future to measure the harmonics generated by in-feed converters and other rectifiers. The group agreed this would be very good to do, and the Chairman, Don Heirman requested this action: **Action item 2016-3** Mr. Spantman to prepare a short description of the planned work. **Action item 2016-4** SC 1 provide comments back to him. When the work is finished it is likely that we will have new direct information on the levels of conducted disturbances that exist in a factory due to energy efficient converters. Abtin will provide the write-up by 31 August and the SC 1 review will be performed in 30 days afterwards.

The Chairman, Don Heirman, adjourned the meeting at 6:30 pm.

Review of Action items that are open from the 2015 meeting and the 2016 meeting.

2015-3	Open: Secretary to revise web pages to update access to technical committees
2015-4	Open: Dave Thomas will provide the latest CENELEC document
2015-6	Open: Radasky will request the load information regarding meter tests
2016-1	Bill Radasky will put together a new attendance roster that can be updated in the future
2016-2	Don Heirman will collect paper ideas for the EMC Society Magazine
2016-3	Mr. Spantman to prepare a short description of the planned work by 31 August.
2016-4	SC 1 provide comments back to him by 30 September