

# SC 1 (Smart Grid) Meeting Minutes

Monday, 8-7-2017 at 5:45 pm

Prepared by

Bill Radasky, Acting Secretary

## Attendees

Don Heirman, Chair	Don HEIRMAN Consultants, US	d.heirman@ieee.org
Bill Radasky, Vice-Chair	Metatech Corporation, US	wradasky@aol.com
Flavia Grassi	Politecnico di Milano, Italy	flavia.grassi@polimi.it
Mike McInerney	USACE-ERDC, US	mkmcinerney@ieee.org
Niele Moonen	Univ. of Twente, Netherlands	d.j.g.moonen@utwente.nl
Benoit Nadeau	Hydro-Quebec, Canada	nadeau.benoit@hydro.qc.ca
Iliana-Diana Nicolae	Univ. of Craiova, Romania	nicolae_ileana@software.ucv.ro
Petre-Marian Nicolae	Univ. of Craiova, Romania	pnicolae@alth.ucv.ro
Jerry Ramie	ARC Technical Resources, US	jramie@arctechnical.com
Leonardo Sandrolini	Univ. of Bologna, Italy	leonardo.sandrolini@unibo.it
Giordano Spadacini	Politecnico di Milano, Italy	giordano.spadacini@polimi.it
Abtin Spantman	Danfoss, US	abtin.spantman@danfoss.com
Dave Thomas	Univ. of Nottingham, UK	dave.thomas@nottingham.ac.uk
Weidong Zhang	North China Electric Power Univ.	zwd@ncepu.edu.cn

## 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, and Petre-Marian Nicolae is the Vice Chair of TC 7.

### 1 Welcome and introductions

Don Heirman, the Chair of SC1 opened the meeting and emphasized that SC1 is a coordinating committee with the intention to work with other technical committees with regard to the Smart Grid. He indicated that the scope/charter of the committee can be found at:

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

The membership of the committee has varied over the years, and Bill Radasky presented a table summarizing the SC1 attendance since 2013, and he pointed out that some members who attended the SC1 meeting in the past did not have valid email addresses today [Action 2016-1]. It was decided to redo the membership roster with more emphasis on the last two meetings. The membership list found on the web will be replaced with a more current list: Here is what is on the present website.

[http://www.emcs.org/committees/sc01/documents/SC1\\_Members\\_2015.pdf](http://www.emcs.org/committees/sc01/documents/SC1_Members_2015.pdf)

### 2 Review and approval of the minutes from the Ottawa meeting held in July 2016

The Chair reviewed the minutes and there were no recommendations for changes. The minutes were therefore approved. The Ottawa minutes were found at:

<http://www.emcs.org/committees/sc01/documents/SC%201%20Meeting%20Minutes--Ottawa.pdf>

### 3 Review of action items from Ottawa meeting

The action item list on the agenda for this meeting was reviewed with the previously closed action items 2015-1, 2015-5 and 2015-7 deleted. In addition, the following action items were completed at this meeting or immediately after the conclusion of the meeting:

ACTION ITEM 2015-4: Dave Thomas to send the latest edition of the CENELEC report dealing with PLC problems and research [CLOSED immediately after meeting]

ACTION ITEM 2016-1: Bill Radasky to draft a table that indicates the member names and which years they attended the SC 1 meetings. [CLOSED during meeting]

The rest of the action items were reviewed, and several were kept as they were felt to be important to resolve. All of the responsible persons were present and agreed to work on their respective actions as listed below:

ACTION ITEM 2015-2: Bill Radasky to send memorandum to the Convener of SC77B/MT12 (about lack of commercial couplers for IEC 61000-4-18) [OPEN]

ACTION ITEM 2015-3: Secretary of SC1 to revise web pages to update coordination with other technical committees [OPEN]

ACTION ITEM 2015-6: Bill Radasky to contact TC13 to find out their procedures for their defined test methods for EMC to find out how to load Smart Meters during testing [OPEN]

ACTION ITEM 2016-2: Don Heirman 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 [OPEN]

ACTION ITEM 2016-3: Abtin Spantman will prepare a short description of the planned work. To measure the harmonics generated by in-feed converters and other rectifiers. [OPEN]

ACTION ITEM 2016-4: SC 1 members will provide comments back to Mr. Spantman after completion of 2016-3 [OPEN]

### 4 New projects proposals

There was a discussion about any future projects that SC1 should undertake in the future. It was thought to be a good idea to look into other IEEE Smart Grid activities including the IEEE 2030 activities and possibly to identify a liaison with them. Also, there was mention of IEEE 1547 on interoperability.

ACTION ITEM 2017-1: Don Heirman to investigate the IEEE 2030 activity to see if there is information that can be provided to SC1

### 5 SG coordination with EMCS TCs

The Chair, Don Heirman will review commitments from other IEEE EMC Technical Committees to participate in SC1 activities.

ACTION Item 2017-2: Don Heirman will ask TC chairs for any Smart Grid activity they may have.

### 6 Review of meeting action items

No further action items were added other than the Chair's plans as indicated in Clauses 4 and 5 of these minutes.

### 7 AOB

As it was not anticipated at this meeting that we would have a volunteer for Secretary of SC1, an election of a new Secretary was taken under any other business. Dr. Iliana Nicolae volunteered to become Secretary of SC1 and after a short discussion, a vote was taken by the members in attendance. The vote was unanimous, and SC1 welcomes Iliana as our new Secretary. Since SC1 elects officers for 3-year terms and the current Chair and Vice Chair were elected at last year's meeting, it therefore was agreed that the Secretary would serve a 2 year term ending on 31 December 2019 so that all officer elections will be at the same time.

#### 8 Next meeting

In 2018 the IEEE EMC Symposium will be a joint symposium with APEMC in Singapore from 14-17 May 2018, and there will be a separate national conference in Long Beach, CA from 30 July to 3 August 2018. It was decided that SC1 meetings would be held at both locations to allow a better opportunity for attendance by interested parties throughout the world. It is likely that SC1 will also organize a workshop in Singapore.

#### 9 Adjournment

Without further business, the meeting was adjourned at 6:30 pm.