

**SC 1 Meeting Minutes**  
**Prepared by Bill Radasky, Vice Chair**  
**Friday, 21 August 2020**  
**Virtual Meeting from 10:00 – 11:00 AM (U.S. Central Time)**  
**“Reno Conference”**

**Unconfirmed Minutes**

1. The meeting was opened by the Vice Chairman, Bill Radasky, at 10:00 AM CDT on a WEBEX meeting. Our chairman, Don Heirman, was not able to attend due to an illness. Bill Radasky presented the agenda for the meeting, which had been distributed by email to the membership, and it was approved.
2. He also reminded the attendees of the scope of the special committee, which was to coordinate within the EMC Society on Smart Grid issues and not to solicit papers for the conference. He mentioned that the usual membership of SC 1 was determined by attendance at the annual meeting, and those missing the next meeting would be dropped from the membership, but would be added back on their next attendance. Due to the unusual circumstances of this virtual meeting, the membership list from 2019 will still be used with additional attendees at this meeting being added.

There were 7 attendees for this WEBEX meeting including: Frank Leferink, Mike McInerney, Bill Radasky, Leonardo Sandrolini, Melissa Schwager, Abtin Spantman, and Dave Thomas.

3. Bill Radasky reviewed the 2019 New Orleans minutes that had been distributed before the meeting and asked if there were any corrections to the minutes. None were mentioned and the minutes of the New Orleans meeting in 2019 were approved as written.
4. The four active action items were discussed next along with a new action item:

**Action Item 2018-2:** Radasky to contact IEC TC 13 representative to ACEC (Heirman to provide contact name and email) to determine how they perform EMC tests on smart meters with regard to the load and performance of the communications capability.

Bill Radasky no longer had contact information from TC 13, but Don Heirman had previously indicated that he would find the contact information from the TC 13 ACEC member, and then Bill could contact them. No progress was made on this action item due to the illness of Don Heirman, so it is therefore kept open.

**Action Item 2018-5:** Petre-Marian Nicolae to discuss the possibility of a joint special issue on Smart Grid with IEEE PES in one of their magazines.

His discussions with IEEE PES did not succeed after some effort, and as Petre-Marian has informed SC 1 that he will not be able to continue his participation in SC 1, this action item will be closed.

**Action Item 2019-1:** Benoit Nardeau will review IEEE Smart Grid documents provided by Mike McInerney at the New Orleans meeting to determine if hardware testing is mentioned.

No action was reported on this item, and Benoit Nardeau did not attend the SC 1 virtual meeting. After some discussion, it was decided that this action item is closed.

**Action Item 2019-2:** Petre-Marian proposed (in New Orleans) for the next IEEE EMC Symposium in Reno that a joint tutorial be developed by TC 7 and SC 1.

This item was closed before the SC 1 virtual meeting, as the tutorial had been accepted and was presented virtually during the “Reno Conference”.

#### **New Action Item**

A new action item arose when a non-governmental organization known as Helena contacted the IEEE EMC Society President (Alistair Duffy) and asked for information regarding the possible impacts of high-altitude electromagnetic pulse (HEMP) on Smart Grids. Helena takes on societal problems and funds projects to solve these problems.

This request was passed to the Chairman of TC 5 and the Vice Chairman of SC 1 (Bill Radasky) in August 2020 and he discussed the issues of Smart Grid and HEMP with several principals of this group in a teleconference. They were appreciative of the information provided. As there may be some follow-up of this contact, we will assign Action Item 2020-1.

#### 5. Plans for 2021

Two tutorials were held at the virtual Reno conference this year, one entitled, “Smart Grid Support and EMC Issues,” and the other, “Power Electronics EMC and Low-Frequency EMC Challenges” which was a joint tutorial with TC 7. Normally SC 1 would present a tutorial on Smart Grid and EMC, but due to the situation with Don Heirman, and the uncertainty with whether Raleigh will be held as a physical conference, it was decided to wait until the end of the year to see if we wish to propose a tutorial at the Glasgow conference in July-August 2021.

Normally SC 1 holds physical meetings at each conference including in years where there are 2 conferences. Whether the conferences are virtual or in person, SC 1 plans on having meetings at both locations (Raleigh and Glasgow) next year.

#### 6. Coordination of EMC TCs with SC 1

As in previous years, attempts have been made to have the IEEE EMC Society TCs coordinate with SC 1 when they have any Smart Grid issues. This coordination has not been highly successful, but some TCs have members who do attend the annual SC 1 meeting including those from TC 2, TC 4, TC 5 and TC 7 in most years. We remind the TC officers of the need for coordination at the annual TAC meetings.

7. Review of meeting action items:

**2018-2:** Radasky to contact IEC TC 13 representative to ACEC (Heirman to provide contact name and email) to determine how they perform EMC tests on Smart Meters with regard to the load and performance of the communications capability.

**2020-1:** Radasky to continue to discuss information regarding the problem of HEMP and the Smart Grid with Helena NGO.

8. AOB

Under Any Other Business (AOB) the Chairman, Don Heirman, mentioned last year that SC 1 should work to prepare a position paper regarding Smart Grid EMC activities in the IEEE over the next year. This will be a 1-page paper that will have to go first to the EMC Board of Directors and then on to the IEEE Headquarters. Of course the text of the position paper must be first decided by SC 1. This activity is postponed due to the illness of Don Heirman.

A second item arose due to the resignation of Ileana-Diana Nicolae as our Secretary. We plan to ask for nominations and then have a vote to replace her for a new 3-year term beginning on 1 January 2021. In addition the Chair and Vice-Chair elections need to take place for their terms, and this election will be done at the same time by correspondence.

9. Next Meeting, Venue: Raleigh and/or Glasgow in 2021

The next meetings of SC 1 will be in Raleigh during the IEC EMC Symposium from 3-7 May 2021, with a second meeting to be held during the International Symposium in Glasgow, UK from 30 July – 6 August 2021.

10. Adjournment

This meeting was adjourned at 11:00 AM U.S. Central Time.