



## IEEE NPEC SC2 Fall Meeting 17-02

November 12-17  
Clearwater Beach Sheraton Sand Key

### **SC-2 Rate \$169/night Includes Free Internet**

IEEE NPEC SC2 Fall Meeting 17-02 (OR copy and paste the following link into a web browser)  
<https://www.starwoodmeeting.com/events/start.action?id=1708105845&key=6C95942>

### **Hotel Address and Phone:**

1160 Gulf Boulevard Clearwater Beach, FL 33767

Phone: (800) 456-7263

<http://www.starwoodhotels.com/sheraton/property/overview/index.html?propertyID=914>

### **Airport Transportation**

<http://www.starwoodhotels.com/sheraton/property/area/transportation.html?propertyID=914>

**Sunday November 12<sup>th</sup>: ADCOM**

**3 PM - 6 PM: Cardita/5<sup>th</sup> Floor** - SC-2 Officers/Past Officers and WG Chairs

**Monday November 13<sup>th</sup>: Working Group Meetings**

**8 AM - Noon: Cardita/5<sup>th</sup> Floor** - IEEE 344 (SC 2.5) Seismic

**9 AM - Noon: Conch/6<sup>th</sup> Floor** - Conformity Assessment Invitation Only

**Noon - 1:00 PM: Lunch** – Not Provided

**1 PM - 5 PM: Sundial/4<sup>th</sup> Floor** - IEEE 572 (SC 2.11) Connectors

**1 PM - 5 PM: Conch/6<sup>th</sup> Floor** - Conformity Assessment Invitation Only

**1 PM - 3 PM: Cardita/5<sup>th</sup> Floor** – IEEE 323 (SC 2.1) EQ

**3 PM - 5 PM: Cardita/5<sup>th</sup> Floor** – IEEE 627 (SC 2.10) Overall EQ

**Tuesday November 14<sup>th</sup>: Working Group Meetings**

**8 AM - 5 PM: Conch/6<sup>th</sup> Floor** - Conformity Assessment Invitation Only

**8 AM - Noon: Sundial/4<sup>th</sup> Floor** – IEEE P2425 (SC 2.16) EMI/EMC

**8 AM - Noon: Cardita/5<sup>th</sup> Floor** – IEEE 1682 (SC 2.15) Fiber Optic

**Noon - 1:00 PM: Lunch - Rusty's Dining Room (Included)**

**1 PM – 3 PM: Cardita/5<sup>th</sup> Floor** IEEE 649 (SC 2.14) Motor Control

**3 PM – 5 PM: Cardita/5<sup>th</sup> Floor** IEEE 334 (SC 2.2) Motors

**1 PM - 5 PM: Sundial/4<sup>th</sup> Floor** - IEEE 382 (SC 2.3) Actuators

**Reception 6 pm to 8 pm: Pool Deck Weather Permitting (Bay Room Otherwise): Open Bar & Hors D'oeuvres**

**Wednesday November 15<sup>th</sup>: SC-2 Meeting**

**8:30 AM - 5:00 PM: Palm Room**

## **A. BUSINESS**

**Call to order – Special comments - in the absence of Ed Mohtashemi and Marie Nemier, Past Chair Robert Konnik will act as chair and Jonathan Cornelius will act as Secretary for this meeting.**

### **1. Introductions – Bob Konnik**

#### **a. Roll Call – Jonathan Cornelius**

**29 members present - Quorum met**

#### **b. Identification of Guests – Bob Konnik**

#### **c. Approval of Agenda and General Remarks Bob Konnik**

#### **d. Meeting Fee - Waived**

### **2. Secretary's Report – Jonathan Cornelius**

#### **a. Approval of Previous Meeting Minutes**

- Motion by Jan Pirrong**
- Seconded by Jim Parello**

#### **b. Status of Action Items**

#### **c. Status of Bio Book Update: Rebecca Steinman**

- Get with Bob or Jonathan with updates**

#### **d. Report of SC 2 Financial Status/Alligator Fund**

- a **Balance is high and will not require a meeting fee,**
- b **We will see about the next meeting.**

### **SC-2 (17-1) Meeting April 2017 San Diego, California**

<b>Balance Prior to Meeting -</b>	<b>\$7,196.54</b>
<b>Collected at 17-1 Meeting -</b>	<b>\$2,730</b>
<b>Cost of 17-1 Meeting -</b>	<b>\$ 2431.83</b>
<b>Balance (11/12/17) -</b>	<b>\$7,494.71</b>

### **3. Chairman's Report – Bob Konnik**

#### **a. Summary of SC 2 ADCOM**

- **Membership is being fine-tuned and some will be moved to corresponding member to maintain quorum**
- **Lunches were provided without sponsor.**
- **Presentations are invited/requested**
- **Web link has been moved**
- **Chairs need to update these sites**
- **Awards for past chairs are in process**
- **Next locations**
- **International meeting suggestions as possible...but would not be mandatory.**
- **Need liaison positions from the other organizations**
- **Policies and Procedures have been updated and we will be revising/reviewing ours.**

#### **b. Summary of NPEC Meeting**

- a **Last meeting was in Buffalo NY sponsored with tour by Mirron Connax**
- b **Technical Presentations**
  - **Oconee, historical perspective is by Gary Johnson**

- **Nuclear plasma society was disbanded. We will not take this set of standards.**
- **Next meeting is January 22-24 New Orleans on Canal street.**

**c. Status of Required Project Revisions**

- **60780 white paper is targeting draft by end of January.**
- **62582 1, 2, 4 up in 2021 par is needed.**
- **Several standards will be coming up and will be occurring together therefore the meetings will become busier in the coming year.**
- **334 will start a PAR**
- **382 needs a PAR due by the end of 2018**
- **383 draft white paper completed The format from historically available was chosen.**
- **1682 working on white paper.**

**d. Awards**

**4. Vice-Chairman's Report – J. Cornelius**

- Meeting 18-1: Tucson, AZ (~1st week May)**
- Meeting 18-2: TBD**

## 5. Previews

a. **None**

### B. 10:30 AM – Noon: Working Group and Liaison Reports

c. **These updates will be supplies from WG chairs/speakers**

a. **SC 2.1: IEEE Std. 323** (Electric Equip EQ)

J. White

i. IEEE/IEC 62582-6

**Sven Olaf**

**Presentation later**

b. **SC 2.2: IEEE Std. 334** (Motors)

J. Dean/B. Newell

**None**

c. **SC 2.3: IEEE Std. 382** (Valve Operators)

**It was said that since the date was coming soon that there might be some extra attention by the working group to meet the date in non-face-to-face meeting such as web-ex.**

d. **SC 2.4: IEEE Std. 383** (Cables)

R. Konnik

**Presentation later**

e. **SC 2.5: IEEE Std. 344** (Seismic)

J. Parello?

**This will be the next standard for joint IEC/IEEE**

PAR will be forthcoming  
Be ready to join the working group.

f. **SC 2.6: C37.98** (Relays Seismic Qual)

S. Channarasappa  
/M. Nemier

<p><b>g. SC 2.10: IEEE 627 (Overall EQ)</b> no activity</p>	<p>Rebecca Steinman</p>
<p><b>h. C 2.11: IEEE Std. 572 (Connectors)</b></p>	<p>Gary Elam</p>
<p><b>Eric R updated intend to have ballot at 18-1</b></p>	
<p><b>i. SC 2.13: IEEE Std. 650 (Battery Chargers)</b> no activity</p>	<p>D. Dellinger</p>
<p><b>j. SC 2.14: IEEE Std. 649 (Motor Control Centers)</b></p>	<p>R. Francis</p>
<p><b>k. SC 2.15: IEEE 1682 (Fiber Optic Cable)</b></p>	<p>J. Pirrong</p>
<p><b>l. SC 2.16: IEEE P2425 EMI/EMC</b> Clinton Carpenter gave an update</p>	<p>S. Channarasappa</p>
<p><b>m. Conformity Assessment Committee</b></p>	<p>J. Cornelius</p>
<p><b>Noon - 1:00 PM: Lunch Rusty's Dining Room (Included)</b></p>	
<p><b>n. EPRI Liaison Report</b></p>	<p>Chris Abernathy</p>
<p><b>o. NRC Liaison Report</b></p>	<p>Shelia Ray</p>
<p><b>p. ISA Liaison Report</b></p>	<p>Bob Queenan</p>
<p><b>q. ASME Liaison Report</b></p>	<p>Open</p>
<p><b>r. IEEE/ASME NQA-1 Liaison Report</b></p>	<p>Open</p>
<p><b>s. IEEE ICC Liaison Report</b></p>	<p>Art Maldonado</p>



**C. 2:00 PM to 4:45 PM: Presentations**

a. “EQ tests of electrical equipment used in Japanese NPP” (MHI)  
**Additionally, Sven-Olaf gave a presentation about 62582-x**

b. “Experiences taken from the pilot project of generic equipment qualification of small-series asynchronous motor qualified be like IEEE CAP rules”

c. IEC/IEEE-60780-323 (SC 2.1) EQ White Paper

**D. 4:45 PM to 5:00 PM: Wrap-Up**

a. Old Business

b. New Business

a **Attendance problems – some brief discussion asks can or should attendance goals be achieved for SC-2 with virtual attendance. We will check into this and considerations for the future...but not at this time.**

b **Brief mention of Marie Nemire’s passing. Information and arrangements are incomplete. Her friendship and technical contributions will be greatly missed.**

c. Next Meeting – May 2018

Chairman - Ed Mohtashemi

Vice-Chair - Jonathan Cornelius

Secretary - TBD

d. Adjournment

**Thursday November 16<sup>th</sup>: IEEE/IEC 62582 Meeting**

**8:00 AM - 5:00 PM: Sundial/4<sup>th</sup> Floor**

**IEEE/IEC 62582-6 IR**

**Review & Determine If Revision Needed:**

**IEEE/IEC 62582-1 General**

**IEEE/IEC 62582-2 Indenter**

**IEEE/IEC 62582-4 OIT**

**If needed can pick appropriate standards to discuss what is needed in revision**

## IEEE PES NPEC SC2 Standards

SC 2. Standard	Title	Status	Par Exp.	Expires	
1	IEEE/IEC 60780-323: 2016	Qualification of Electrical Equipment Important to Safety for Nuclear Facilities	White Paper	NA	31-Dec-26
1	62582-1	Standard for Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 1: General	Start?	NA	31-Dec-21
1	62582-2	Standard for Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 2: Indenter modulus	Start?	NA	31-Dec-21
1	62582-2-am1	Nuclear Power Plants - Instrumentation and Control Important to Safety - Electrical Equipment Condition Monitoring Methods - Part 2: Indenter Modulus Amendment 1	Published 2015	NA	31-Dec-21
1	62582-3	Standard for Nuclear Power Plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 3: Elongation at break		NA	31-Dec-22
1	62582-4	Standard for Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods Part 4: Oxidation induction techniques		NA	31-Dec-21
1	62582-5	Nuclear Power Plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods Part 5: Optical time domain reflectometry	Published 2015	NA	31-Dec-25
1	P62582-6	Nuclear Power Plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods Part 6: Insulation Resistance	In Process	31-Dec-19	
2	IEEE <a href="#">334-2006</a> R2012	IEEE Standard for Qualifying Continuous Duty Class 1E Motors for Nuclear Power Generating Stations		NA	31-Dec-22
3	IEEE <a href="#">382-2006</a>	IEEE Standard for Qualification of Safety-Related Actuators for Nuclear Power Generating Stations	PAR	31-Dec-09	31-Dec-18
4	IEEE <a href="#">383-2015</a>	IEEE Standard for Qualifying Electric Cables and Splices for Nuclear Facilities	White Paper	NA	31-Dec-25
5	IEEE <a href="#">344-2013</a>	IEEE Standard for Seismic Qualification of Equipment for Nuclear Power Generating Stations	IEC Harmonize PAR	NA	31-Dec-23
6	C37.98-2013	IEEE Draft Standard for Seismic Qualification Testing of Protective Relays and Auxiliaries for Nuclear Facilities		NA	31-Dec-23
10	IEEE <a href="#">627-2010</a>	IEEE Standard for Qualification of Equipment Used in Nuclear Facilities	In Process	31-Dec-20	31-Dec-20
11	IEEE <a href="#">572-2006</a> R2011	IEEE Standard for Qualification of Class 1E Connection Assemblies for Nuclear Power Generating Stations	PAR	NA	31-Dec-21
13	IEEE <a href="#">650-2006</a>	Standard for Qualification of Class 1E Static Battery Chargers, Inverters and Uninterruptible Power Supply (UPS) Systems for Nuclear Power Generating Stations	NPEC February	31-Dec-17	31-Dec-18
14	IEEE <a href="#">649-2006</a> R2011	IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations	Start?	NA	31-Dec-21
15	IEEE 1682 - 2011	IEEE Standard for Qualifying Fiber Optic Cables, Connections, and Optical Fiber Splices for Use in Safety Systems in Nuclear Power Generating Stations	White Paper	NA	31-Dec-21
16	P2425	Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities	In Process	31-Dec-20	