



# IEEE NPEC SC-2 Spring Meeting 17- 01

April 29th – May 6th  
 San Diego Marriott Mission Valley

## SC-2 Rate \$179/night

[CLICK HERE TO BOOK YOUR RESERVATION](#)

## Hotel Address and Phone:

8557 Rio San Diego Drive, San Diego, California 92108-1620  
 Phone: +1-619-692-3800

## Sightseeing:

Area Tour Services  
 Let those in the know show you around town

[Old Town Trolley Tour](#) +1 619 298 8687

[Ranger-led Tours](#) +1 619 239 0512

Discover Balboa Park Area

[San Diego Bike & Kayak Tours](#) +1 858 454 1010

La Jolla and Coronado areas

Bike & Kayak Tours INC

[San Diego Whale Watching Excursion](#) +1 619 234 4111

San Diego Harbor for whale watching

San Diego Harbor Excursions

## Local Attractions:

[San Diego Zoo](#)

[SeaWorld San Diego](#)

[Legoland California](#)

[Knott's Soak City Water Park](#)

[Petco Park](#)

[Gaslamp District](#)

[UltraStar Mission Valley Cinemas](#)

[Dave & Buster's Restaurant and Games](#)

[Wave House San Diego](#)

[Birch Aquarium at Scripps](#)

### **Sunday April 30<sup>th</sup> : ADCOM**

**3 PM to 6 PM: Balboa 1 - SC-2 Officers/Past Officers and WG Chairs**

### **Monday May 1<sup>st</sup> : Working Group Meetings**

**9 AM to Noon: Balboa 1 - Conformity Assessment Invitation Only**

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

**1 PM - 5 PM: Santa Fe 3-4 - IEEE 627 (SC 2.10) Overall EQ**

**1 PM - 5 PM: Balboa 1 - Conformity Assessment Invitation Only**

### **Tuesday May 2<sup>nd</sup>: Working Group Meetings**

**8 AM to Noon: Santa Fe 3-4 - IEEE P2425 (SC 2.16) EMI/EMC**

**8 AM to Noon: Balboa 2 - IEEE 572 (SC 2.11) Connectors**

**Noon to 1:00 PM: Lunch Included**

**1 PM - 3 PM: Santa Fe 3-4 - IEEE 1682 (SC 2.15) Fiber Optic**

**3 PM - 5 PM: Santa Fe 3-4 - IEEE 650 (SC 2.13) Battery Charges**

**1 PM - 3 PM: Balboa 1 - IEEE 382 (SC 2.3) Actuators**

**3 PM - 5 PM: Balboa 2 - IEEE 334 (SC 2.2) Motors**

### **Wednesday May 3<sup>rd</sup>: SC-2 Meeting**

**8:30 AM to 5:00 PM: Cabrillo Salon 1**

#### **A. BUSINESS**

**Call to order - E. Mohtashemi**

**1. Introductions – E. Mohtashemi**

**a. Roll Call - M. Nemier**

- b. Identification of Guests - E. Mohtashemi
  - c. Approval of Agenda and General Remarks - E. Mohtashemi
  - d. Meeting Fee - \$70 - Includes all WG meeting room fees
2. Secretary's Report - M. Nemier
- a. Approval of Previous Meeting Minutes
  - b. Status of Action Items
  - c. Status of Bio Book Update: Rebecca Steinman

**SC-2 (16-2) Meeting November 2016 Clearwater Beach, Florida**

Balance Prior to Meeting -	\$ 6,272.53
Collected at 16-2 Meeting -	\$ 2,500
Cost of 16-2 Meeting -	\$ 575.99
Pre-paid Hotel Deposit 17-1 Meeting -	\$ 1,000.00
<b>Balance (1/12/17) -</b>	<b>\$ 7,196.54</b>

3. Chairman's Report - E. Mohtashemi
- a. Summary of SC 2 ADCOM
  - b. Summary of NPEC Meeting
  - c. Status of required project revisions
  - d. Awards
4. Vice-Chairman's Report - J. Cornelius
- a. Meeting 17-2: Week of November 6<sup>th</sup> Phoenix/Dallas/TBD
  - b. Meeting 18-1: Around Week of April 30<sup>th</sup> TBD
5. Previews (10:00 AM - 10:30 AM)
- a. IEEE Std. 649, SC 2.14, Motor Control Centers (R. Francis)

**B. 10:30 AM - Noon: Working Group and Liaison Reports**

- |   |                                |
|---|--------------------------------|
| a. SC 2.1: IEEE Std. 323 (Electric Equip EQ)      | J. White                       |
| i. IEEE/IEC 62582-6                               | K. Spang                       |
| b. SC 2.2: IEEE Std. 334 (Motors)                 | J. Dean / B. Newell            |
| c. SC 2.3: IEEE Std. 382 (Valve Operators)        | E. Mohtashemi                  |
| d. SC 2.4: IEEE Std. 383 (Cables)                 | R. Konnik                      |
| e. SC 2.5: IEEE Std. 344 (Seismic)                | J. Parelo                      |
| f. SC 2.6: C37.98 (Relays Seismic Qual)           | S. Channarasappa /M. Nemier    |
| g. SC 2.10: IEEE 627 (Overall EQ)                 | Rebecca Steinman               |
| h. C 2.11: IEEE Std. 572 (Connectors)             | Gary Elam                      |
| i. SC 2.13: IEEE Std. 650 (Battery Chargers)      | S. Channarasappa /D. Dellinger |
| j. SC 2.14: IEEE Std. 649 (Motor Control Centers) | R. Francis                     |
| k. SC 2.15: IEEE 1682 (Fiber Optic Cable)         | J. Pirrong                     |
| l. SC 2.16: IEEE P2425                            | S. Channarasappa               |
| m. Conformity Assessment Committee                | J. Cornelius                   |

**Noon to 1:00 PM: Lunch Cabrillo Salon 2 Dining Room**

**SPONSORS:**

- 1). TE CONNECTIVITY
- 2). CLARK TESTING
- 3). AES NUCLEAR

- |                                    |               |
|------------------------------------|---------------|
| n. EPRI Liaison Report             | C. Abernathy  |
| o. NRC Liaison Report              | Shelia Ray    |
| p. ISA Liaison Report              | Bob Queenan   |
| q. ASME Liaison Report             | Open          |
| r. IEEE/ASME NQA -1 Liaison Report | Open          |
| s. IEEE ICC Liaison Report         | Art Maldonado |

**C. 1:00 PM to 4:45 PM Presentations**

- |  |   |
|--|---|
| a. Undeclared Digital Content and the impact on Qualification                  | M. Nemier                               |
| b. Safety Class Medium Voltage Design Considerations that reduce lifetime risk | E. Rasmussen                            |
| c. IEEE – SA; RevCom/NesCom; Review Process                                    | M. Zaman/Karen Evangelista/Lisa Weisser |
| d. IEEE Certification Process  | J. Cornelius                            |

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

- a. Old Business**
- b. New Business**
- c. Next Meeting - November 2017**
- d. Adjournment**

**Thursday May 4<sup>th</sup>: IEEE/IEC 62582 Meeting**

**8:00 AM – 5:00 PM: Santa Fe 3-4**

**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

SC2	STANDARD EXPIRES	TITLES	STATUS	PAR EXP.	EXPIRES
1	IEEE/IEC 60780-323 2018	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-21
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-22
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-18	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	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	