

## IEEE NPEC SC-2 Spring Meeting 17-01

April 29th – May 6<sup>th</sup> 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

<u>Old Town Trolley Tour</u> +1 619 298 8687

<u>Ranger-led Tours</u> +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** 

<u>UltraStar Mission Valley Cinemas</u>

Dave & Buster's Restaurant and Games

Wave House San Diego

Birch Aquarium at Scripps

#### Sunday April 30th: ADCOM

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

#### Monday May 1st: 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

Introductions – E. Mohtashemi

Safety brief regarding the event in nuclear safety for the day. Reminder of IEEE patent slides

a. Roll Call - M. Nemier

26 of 45 members present, quorum present

- b. Identification of Guests E. Mohtashemi
- c. Approval of Agenda and General Remarks E. Mohtashemi

Motion approved to accept. See Attachment 1.

d. Meeting Fee - \$70 - Includes all WG meeting room fees

Collected at the break

- 2. Secretary's Report M. Nemier
  - a. Approval of Previous Meeting Minutes

Posted on the website- Motion approved to accept.

b. Status of Action Items

No new action items added

c. Status of Bio Book Update: Rebecca Steinman

Send in any updates of photos or information updates to Rebecca Steinman

d. Report of SC 2 Financial Status/Alligator Fund

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
Balance (1/12/17) -	\$ 7,196.54

- 3. Chairman's Report E. Mohtashemi
  - Summary of SC 2 ADCOM

Topics discussed were:

- Meeting fee payment using Paypal is not available
- Need to keep balance of SC-2 funds up to \$5K due to attrition risk
- 17-02 meeting location Sheraton Clearwater, FL
- Update working group rosters by chair and identify vice chair
- Thanks to TE Connectivity, Clark Testing and AES Nuclear for lunch sponsorship
- New revision of IEEE 344 to be joint with IEC, need NPEC approval
- SC-2 member list to be updated
- Use of web meeting suggested- too problematic due to so many different time zones
- b. Summary of NPEC Meeting
  - Possible training at NPEC meetings
  - Desire to represent IEEE as a global organization
  - John & Jodi looking into program for college student attendance and if IEEE can provide standards to universities
  - 17-2: Next meeting July 17-19 Buffalo, NY
  - 18-1 January 2018 New Orleans
  - IEEE has withdrawn from ANSI
  - IEEEE Nuclear Plasma Society inactive
  - IEEE 650 preview approved, IEEE 603 conditionally approved
  - SC-5 restructured
  - SC-6 no need for nuclear specific cybersecurity standard
- c. Status of required project revisions

Last page of the agenda provides status and working group chairs will provide status later in agenda

d. Awards

**IEEE 344 Jim Parello** 

- 4. Vice-Chairman's Report J. Cornelius
  - a. Meeting 17-2: Week of November 6th Clearwater, FL
  - b. Meeting 18-1: Around Week of April 30th TBD
- 5. Previews (10:00 AM 10:30 AM)
  - a. IEEE Std. 649, SC 2.14, Motor Control Centers (R. Francis)

Accidental submission to NPEC, motion to approve for SC-2 by John White and Ed Mohtashemi, Approved with no negative votes or abstain

B.	8. 10:30 AM - Noon: Working Group and Liaison Reports				
	a. SC 2.1:	IEEE Std. 323 (Electric Equip EQ)	J. White		

No new activity i. IEEE/IEC 62582-6

K. Spang

Comments from IEC in ballot in NPEC, published target mid 2018, parts 1, 2, 4 need revision

b. SC 2.2: IEEE Std. 334 (Motors) Forming working group

J. Dean / B. Newell

S. Channarasappa /M. Nemier

S. Channarasappa /D. Dellinger

c. SC 2.3: IEEE Std. 382 (Valve Operators) Working group met and reviewed draft

E. Mohtashemi

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

R. Konnik

White paper in development

e. SC 2.5: IEEE Std. 344 (Seismic) Jim Parello has retired but will continue as chair, Joint logo with IEC in process

J. Parello

f. SC 2.6: C37.98 (Relays Seismic Qual) No activity, expires in 2023

Rebecca Steinman

**g. SC 2.10**: **IEEE 627** (Overall EQ) No activity, expires in 2020

Gary Elam

h. C 2.11: IEEE Std. 572 (Connectors)

New working group held meeting

SC 2.13: IEEE Std. 650 (Battery Chargers)

NPEC preview successful, forming ballot group

R. Francis

SC 2.14: IEEE Std. 649 (Motor Control Centers) See section 5.a k. SC 2.15: IEEE 1682 (Fiber Optic Cable)

J. Pirrong

SC 2.16: IEEE P2425

S. Channarasappa

Presentation by Mike Oliver

J. Cornelius

m. Conformity Assessment Committee Approval received by IEEE to proceed

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

SPONSORS:

1). TE CONNECTIVY

2). CLARK TESTING 3). AES NUCLEAR

- n. EPRI Liaison Report No report
- o. NRC Liaison Report See next page
- p. ISA Liaison Report No report
- q. ASME Liaison Report No report
- r. ASME NQA -1 Liaison Report No report
- s. IEEE ICC Liaison Report No updates
- C. 1:00 PM to 4:45 PM Presentations
  - a. Undeclared Digital Content and the Impact on Qualification
  - b. Safety Class Medium Voltage Design Considerations that reduce lifetime risk
  - c. IEEE SA; RevCom/NesCom; Review **Process**

Art Maldonado

C. Abernathy

**Bob Queenan** 

Shelia Ray

Open

Open

M. Nemier

Weisser

E. Rasmussen

M. Zaman/Karen Evangelista/Lisa

#### **NRC Liaison Report**

- NRC has accepted NuScale application for review target completion in 24 months
- Staff review cycle for Reg Guides set at every 10 years
- New revision to IEEE 603 4 non-concur
- 7.4.3.2 current revision under review and reg guide in process
- 2 commission vacancies
- Sheila Ray transferring within NRC
- Qualification of digital equipment
- 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 4th: 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 -	Published 2015	NA	31-Dec-21
		Electrical Equipment Condition Monitoring Methods - Part 2: Indenter Modulus Amendment 1			
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 -	In Process	31-Dec-19	
		Electrical equipment condition monitoring methods Part 6: Insulation Resistance			
2	IEEE <u>334-2006</u> R2012	IEEE Standard for Qualifying Continuous Duty Class 1E Motors for Nuclear Power Generating Stations		NA	31-Dec-22
3	IEEE <u>382-2006</u>	IEEE Standard for Qualification of Safety-Related Actuators for Nuclear Power Generating Stations	PAR	31-Dec-18	31-Dec-18
4	IEEE <u>383-2015</u>	IEEE Standard for Qualifying Electric Cables and Splices for Nuclear Facilities	White Paper	NA	31-Dec-25
5	IEEE <u>344-2013</u>	3 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 <u>627-2010</u>	IEEE Standard for Qualification of Equipment Used in Nuclear Facilities	In Process	31-Dec-20	31-Dec-20
11	IEEE <u>572-2006</u> R2011	IEEE Standard for Qualification of Class 1E Connection Assemblies for Nuclear Power Generating Stations	PAR	NA	31-Dec-21
13	IEEE <u>650-2006</u>	Standard for Qualification of Class 1E Static Battery Chargers, Inverters and	NPEC	31-Dec-17	31-Dec-18
		Uninterruptible Power Supply (UPS) Systems for Nuclear Power Generating Stations	February		
14	IEEE <u>649-2006</u> 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	White Paper	NA	31-Dec-21
		Fiber Splices for Use in Safety Systems in Nuclear Power Generating Stations			
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	