

NPEC 16-01 Summary

Robert Konnik

Next NPEC Meetings

- The locations for the next three NPEC meetings are as follows:
 - 16-02 Denver CO, July 12-14th
 - Adcom & NPEC Agenda Open to Public on Web Site
 - 17-01 New Orleans LA, January 2017
 - 17-02 Buffalo/Niagara Falls NY (pending arrangements), July 2017

NPEC Web Site

- IEEE PES/NPEC Fact Sheet Available on Web Site
- Past Meeting Presentations Available To Public (From 2011)
- Past Adcom and NPEC Minutes Available to Public
- NPEC Will Be Putting Standards For Preview on Website For Members

Standards

- Previews - All Approved
 - P 1082, *Guide for Incorporating Human Reliability Analysis into Probabilistic Risk Assessments for Nuclear Power Generating Stations and Other Nuclear Facilities*
 - P 1792, *Recommended Practice for Nuclear Power Generating Station (NPGS) Preferred Power Supply (PPS) Reliability*
 - P 352, *Guide for General Principles of Reliability Analysis of Nuclear Power Generating Stations and Other Nuclear Facilities*
- The following previews and Works in Progress are planned for the 16-02 meeting: P 387, P 384, and P 603

Color code is based on Jan 2016

N16-01

	Total	SC-2	SC-3	SC-4	SC-5	SC-6	Change from 15-02	Total
Document 0 to 2 years old	11	3	2	2	2	2	-9	20
Document 3 years old	5	1	2	1	0	1	-6	11
Document 4 Years old	6	2	2	2	0	0	-1	7
Document 5 - 7 years old	19	7	2	3	4	3	13	6
Document 8 or more years old	10	4	0	4	1	1	5	5
	41	17	8	12	7	7	2	41

PARS

- **P2421** *Guide for Designing and Developing Computer-Based Displays for Monitoring and Control of Nuclear Facilities*
- **New Standard P2425:** *Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities*
- **IEEE/IEC P62582-6:** *Nuclear power plants -- Instrumentation and control important to safety -- Electrical equipment condition monitoring methods. Part 6: Insulation resistance*

Technical Presentations

- Severe Accidents Lessons Learned by G. Johnson
 - Gary Johnson provided a presentation on lessons learned from severe accidents for I&C and HSI. This was based on work Gary has done for EPRI and IAEA. In looking at 19 severe accidents Gary addressed how do severe accidents happen, how might they be prevented, and role of defense in depth. Of interesting facts presented Gary noted that of severe accidents that have occurred in the US, 4 of them occurred in Idaho. Gary's presentation will be available on the NPEC website
- Assessment and Approval of Smart Instruments for the UK Nuclear Industry by Tina Todd
 - This presentation provided a manufacturer's perspective of the UK Nuclear qualification process provided by Moore Industries, International-Inc. The presentation will be available on the NPEC website.

IEEE

- **myProject Redesign**

- IEEE myProject website is being redesigned to feature a dashboard type interface that will be more user friendly
- The new interface will be implemented in July 2016

- **PES General Meeting: Boston July 17-21**

- NPEC Technical Committee Program Chair set up a NPEC panel session
 - Modeling and Analysis of Open-Phase Faults

Cyber Security Task Force

- IEC 62645 was published in 2002 and provides general requirements for a Cyber Security program
 - Currently being revised
- Three other standards that are not as far along:
 - Interaction between Safety and Security (in progress)
 - Cyber Security Controls (not yet started)
 - Cyber Security Analysis/Modeling (not yet started)
- NEI wanted ANS to develop a standard around their Cyber Security criteria
 - A proposed ANS standard on Cyber Security does exist
 - This standard might focus on the consequences of a Cyber attack

ANS Advanced Reactor Standards

- Development of a new standard to classify structures and components
 - This standard would be looking toward Generation IV reactors
 - Jointly sponsored by IEEE/ANS/ASME