



**PES/NPEC SC-4: Working Group 4.6 - Preferred Power Supply  
Meeting Minutes for S14-02**

**Minneapolis, MN**

**July 28, 2014**

**1. Welcome and Introduction**

Chairman George Attarian was not able to attend the meeting and Vice Chairman Tammy Womack called the meeting to order at 1:20, July 28, 2014. See Attachment 1 for a list of members and guest who were in attendance.

**2. Review of Meeting Minutes and Agenda**

The Meeting Minutes for S14-01 and S14-02 agenda were reviewed and approved.

**3. Action Items**

Item #	Assigned to	Action	Due	Status
12-3	Leake/ Miller	Review the need to add requirements in 1792 for frequency similar to existing voltage requirements at nuclear plants. Review the documents that reference grid frequency relaxation and how they impact nuclear plants. Harvey to provide initial published information to Ken Miller. Ken will get further information/confirmation from FERC to determine impact to NPGS.	15-01	
13-10	Roy Lyon / Shawn Simon	Coordinate on section 6.3 additions to incorporate considerations/requirements for restoration during black start	<del>14-01</del> 2/1/14	Completed S14-02
14-1	Oon-Pyo Zhu	Mark up of Section 5.2.2.1 for additional considerations	2-1-14	Completed S14-02
14-2	Womack	Re-word Section 5.2.2.2 P-V curve discussion to utilize recommended practice wording. Send to Roy Lyons, Harvey Leake, and Shawn Simon for review.	2-14-14	Completed S14-02
14-3	Lyons, Leake, Simon	Comments sent back to T. Womack for incorporation into document.	3-18-14	Completed S14-02
14-4	Leake	Wording in Section 5.2.1 a) and b) to be changed. (i.e. change "loss of" to make clearer)	2-14-14	Completed S14-02
14-5	Leake, Attarian, Kozo	Include paragraph/reference for P-V curves in Section 5.3	2-14-14	Completed S14-02
14-6	K. Miller	NRC to review endorsement of 765 for the general design requirements.	15-01	



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**4. Review of Membership/Attendance**

The list of members and guest which were in attendance is included in Attachment 1. Kevin Littrell is joining as a member. Kali Hara and David Sehi were moved to corresponding member status.

Guests that requested Working Group 4.6 membership:

Joe Ruether – XE Nuclear

Tom Solinsky – Zachery

Steven Hutchins – NEI

Kevin Littrell – Enercon

Jason Bellamy – Enercon

John Minley – Southern

**5. Specific Items Related to Standard 765**

Due to an industry group question on open phase, the working group should determine if changes to the standard will have to be made. Further discussion and suggestions will be explored during the next working group meeting once event clarification and condition requirements are established and understood.

**6. Specific Items Related to Standard 1792**

Enough Members were present to establish a quorum. The working group voted in favor of proceeding to balloting for the revision to 1792.

**7. General Items/New Business**

The 1792 Standard is scheduled for Preview during the 15-01 meeting.

**8. Next Working Group Meeting**

Next working group meeting will be held in conjunction with SC-4 15-01 meeting.

**9. Meeting Closing Remarks/Adjournment**

Meeting adjourned at 2:20.



**ATTACHMENT 1**  
**Attendance/Membership**

**IEEE NPEC SC-4 Working Group 4.6**  
**14-02 (Minneapolis, MN)**

		Member (M) Guest (G) Corresponding Member (CM)	Attendance X - Present A - Absent
Name	Email Address		
George Attarian	<a href="mailto:george.attarian@pgnmail.com">george.attarian@pgnmail.com</a>	M	X*
Ijaz Ahmald	<a href="mailto:Ijaz.ahmad@luminant.com">Ijaz.ahmad@luminant.com</a>	M	A
Mark Bowman	<a href="mailto:mdbowman@tva.gov">mdbowman@tva.gov</a>	M	X
Bob Carruth	<a href="mailto:r.c.carruth@ieee.org">r.c.carruth@ieee.org</a>	M	A
Paul Colaianni	<a href="mailto:paul.colaianni@duke-energy.com">paul.colaianni@duke-energy.com</a>	M	X
John Disosway	<a href="mailto:john.disosway@dom.com">john.disosway@dom.com</a>	M	X
Ken Fleischer	<a href="mailto:kenneth_fleischer@fpl.com">kenneth_fleischer@fpl.com</a>	M	A
Dave Gladey	<a href="mailto:dlgadey@pplweb.com">dlgadey@pplweb.com</a>	M Alt (George Attarian)	X
Chris Georgeson	<a href="mailto:cgeorgeson@ieee.org">cgeorgeson@ieee.org</a>	M	X
Evan Heacock	<a href="mailto:evansheacock@dpengineering.com">evansheacock@dpengineering.com</a>	M	X
Edvin Kozo	<a href="mailto:edvin.kozo@aps.com">edvin.kozo@aps.com</a>	M	X
Ayodele Ishola-Salawu	<a href="mailto:ayodele.ishola-salawu@fpl.com">ayodele.ishola-salawu@fpl.com</a>	M	X
Justin Lane	<a href="mailto:justin.lane@pseg.com">justin.lane@pseg.com</a>	M	X
Harvey Leake	<a href="mailto:hleake@earthlink.net">hleake@earthlink.net</a>	M	A
Roy Lyon	<a href="mailto:rrlyon@southernco.com">rrlyon@southernco.com</a>	M	X
John Mallanda	<a href="mailto:johnjmallanda@gmail.com">johnjmallanda@gmail.com</a>	M	A
Singh Matharu	<a href="mailto:gurcharan.matharu@nrc.gov">gurcharan.matharu@nrc.gov</a>	M	X
Kenn Miller	<a href="mailto:kenn.miller@nrc.gov">kenn.miller@nrc.gov</a>	M	X
Gene Poletto	<a href="mailto:gpoletto@performancepowerservices.com">gpoletto@performancepowerservices.com</a>	M	X
Gregg Reimers	<a href="mailto:gar0@pge.com">gar0@pge.com</a>	M	X
Myat San	<a href="mailto:myat.san@exeloncorp.com">myat.san@exeloncorp.com</a>	M	X
Shawn Simon	<a href="mailto:SimonsSM@INPO.org">SimonsSM@INPO.org</a>	M	A
Tammy Womack	<a href="mailto:tawomack@tva.gov">tawomack@tva.gov</a>	M	X
Oon-Pyo Zhu	<a href="mailto:zhu@kins.re.kr">zhu@kins.re.kr</a>	M	A
Guests			Join WG 4.6
Joe Ruether	<a href="mailto:joseph.ruether@xenuclear.com">joseph.ruether@xenuclear.com</a>	G	Yes
Hideki Tanka	<a href="mailto:hideki_tanaka@mnes-us.com">hideki_tanaka@mnes-us.com</a>	G	No
Shinji Kawanago	<a href="mailto:shinji_kawanago@mhi.co.jp">shinji_kawanago@mhi.co.jp</a>	G	No
Tom Solinsky	<a href="mailto:solinksyt@zhi.com">solinksyt@zhi.com</a>	G	Yes
Roy Mathew	<a href="mailto:roy.mathew@nrc.gov">roy.mathew@nrc.gov</a>	G	No
Sudhir Thakur	<a href="mailto:sudhir.thakur@exeloncorp.com">sudhir.thakur@exeloncorp.com</a>	G	No



**ATTACHMENT 1**  
**Attendance/Membership**

IEEE NPEC SC-4 Working Group 4.6 14-01 (Dallas, TX)		Member (M) Guest (G) Corresponding Member (CM)	Join WG 4.6
Name	Email Address		
Jeri Chadwick	<a href="mailto:chadwije@westinghouse.com">chadwije@westinghouse.com</a>	G	No
Jason Bellamy	<a href="mailto:jbellamy@enercon.com">jbellamy@enercon.com</a>	G	Yes
John Minley	<a href="mailto:jeminley@southernco.com">jeminley@southernco.com</a>	G	Yes
Kevin Littrell	<a href="mailto:klittrell@enercon.com">klittrell@enercon.com</a>	G	Yes
Steven Hutchins	<a href="mailto:sph@nei.org">sph@nei.org</a>	G	Yes
Corresponding Members			
Tom Sims	<a href="mailto:t.r.sims@ieee.org">t.r.sims@ieee.org</a>	CM	
Farouk Baxter		CM	
Alan Bysfield		CM	
Bill Mindick		CM	
Mike Tucker	<a href="mailto:mike.tucker@ieee.org">mike.tucker@ieee.org</a>	CM	
Jerry Nicely	<a href="mailto:jnconsulting@epbfi.com">jnconsulting@epbfi.com</a>	CM	
David Sehi	<a href="mailto:dsehi@enercon.com">dsehi@enercon.com</a>	CM	
Kali Hara	<a href="mailto:haraks@ieee.org">haraks@ieee.org</a>	CM	