



PES/NPEC SC-4: Working Group 4.6 - Preferred Power Supply Meeting Minutes for S21-01

**WebEx
January 18th, 2022**

1. Welcome and Introduction

Chairman Tamatha Womack called the meeting to order at 11:00 AM, January 18th, 2022. Webex etiquette was discussed and working group processes for this meeting using Webex.

The IEEE-SA Patent Policy was reviewed in accordance with Clause 6 of the IEEE-SA Standards Board Bylaws; the foregoing information was provided by review of the Patent Policy slides 1 through 4, as provided by IEEE-SA staff. The Chair provided an opportunity for attendees to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which an attendee was personally aware and that may be essential for the use of a standard. No responses were given by the attendees.

The IEEE-SA Copyright Policy was reviewed in accordance with Clause 7 of the IEEE-SA Standards Board Bylaws and Clause 6.1 of the IEEE-SA Standards Board Operations Manual; the foregoing information was provided by review of the Copyright Policy slides provided by IEEE-SA staff.

2. Review of Membership/Attendance

The membership roster was reviewed and updated. Introductions were made by reading the name and affiliation of each member and identification of guests. See Attachment 1 for an updated list of members and guests who were in attendance. 21 of the 27 working group members were present to establish a quorum.

Removed: James Reddy, Tom Solinsky, Hector Leon

Added: Tom Koshy

Requested to be member: Joe Krvavac

3. Review of Meeting Minutes and Agenda

The 22-01 agenda was reviewed by the chair. The agenda is attached as Attachment 2.

Motion to approve 22-01 Agenda: Gene Poletto

Second: Mark Bowman

Motion approved by unanimous consent without objection

The Meeting Minutes for 21-02 were reviewed and approved as written. The meeting minutes of 21-02 will be sent to the webmaster to be uploaded to the website.

Motion to approve 21-02 Minutes: Ayodele Ishola-Salawu



**PES/NPEC SC-4: Working Group 4.6 - Preferred Power
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Second: Ken Fleischer

Motion approved by unanimous consent without objection

4. Action Items

Item #	Assigned to	Action	Due	Status
16-1	Working Group Members	Review 1792 for possible impacts to frequency descriptions due to effects of NPIRs. Coordinate with possible NERC representative (NUC-001 & PRC)	23-02	Retain for future discussion

5. Specific Items Related to Standard 765

Reviewed ballot results.

6. Specific Items Related to Standard 1792

As with Standard 765, Standard 1792 will have further evaluation for changes associated with relaxing the frequency requirements. PAR discussion next meeting. Requested members to review the standard and come prepared to achieve the goal in having a PAR scope finalized at the conclusion of the next meeting (22-02).

7. General Items/New Business

Copyright and patent slides were reviewed during the meeting.

Discussed having a joint meeting with working groups 4.1, 4.2, 4.6 and 4.7.

8. Next Working Group Meeting

Next formal working group meeting will be held in July 2022 in Chattanooga, TN.

9. Meeting Closing Remarks/Adjournment

Meeting adjourned at 11:56 AM.

Motion to Adjourn: Gene Poletto

Second: Ken Fleischer

Motion approved by unanimous consent without objection



**PES/NPEC SC-4: Working Group 4.6 - Preferred Power Supply
Meeting Minutes for S21-01**

**WebEx
January 18th, 2022**

Attachments

Attachment 1 – Membership

Attachment 2 – Agenda

Attachment 3 – Power Point Presentation



ATTACHMENT 1

Attendance/Membership

Member #	Member Name	Affiliation	In Attendance
1.	Audrey Baricko	PSEG	N
2.	Jason Bellamy	Enercon	Y
3.	Mark Bowman	TVA	Y
4.	John Disosway	Self	Y
5.	Ken Fleischer	Self	Y
6.	Ayodele Ishola-Salawu	NextEra	Y
7.	Shinji Kawanago	MHI Nseng	Y
8.	Thomas Koshy	DNFSB	Y
9.	Edvin Kozo	APS	Y
10.	Tim Lensmire	NextEra	Y
11.	Singh Matharu	US NRC	Y
12.	Brad Miller	Entergy (ANO)	Y
13.	Kenn Miller	US NRC	Y
14.	John Minley	Southern Nuclear Co	N
15.	Gene Poletto	Preferred Power Services	Y
16.	Sheila Ray	US NRC	Y
17.	Gregg Reimers	Independent	Y
18.	Courtney Revie	Duke Energy	Y
19.	Neal Simmons	Zachry Nuclear	Y
20.	Shawn Simon	INPO	N
21.	Masashi Sugiyama	Hitachi - GE Nuclear	N
22.	Michael Sykes	Southern Nuclear	Y
23.	Scott Sweat	Westinghouse	N
24.	Hideki Tanaka	MHI	Y
25.	Sudhir Thakur	Exelon	N
26.	Jeff Weibelt	Southern Nuclear	Y
27.	Tamatha Womack	TVA	Y
Guests in Attendance			
Joe Krvavac		S&L	
Christian Orlando		IEEE	
Parker Bennett		Enercon	
Keith Bush		Enercon	
Darren Green		Framatone	



***Working Group 4.6 - Preferred Power Supply
IEEE Standard 765 Revision Status Updates
MEETING: Hybrid - Orlando (22-01)***

AGENDA

***Working Group 4.6 - Preferred Power Supply IEEE
Std. 765 and 1792
MEETING:
WebEx (22-01)
Tuesday January 18th, 2022***

Tuesday January 18, 2022 11:00 - 12:00 EDT Location: <i>TBD</i>	
1.	Welcome / Call to Order / Required IEEE Announcements
2.	Roll Call, Quorum, Identification of Guests/Affiliations
3.	Agenda Overview and Approval
4.	Review and Approve Previous Meeting Minutes
5.	Overview of IEEE Std. P765 Recirculation Ballot Results and Path Forward
6.	Action Items (Status/New)
7.	Next Working Group Meeting
ADJOURN	

Virtual meeting etiquette and other basic ground rules for those attending the meeting virtually,

- Attendees should stay on “mute” when not speaking (the WebEx host may automatically mute/unmute attendees at any point during the meeting). Also, stay mindful of the environment to avoid excessive background noise.
- Each attendee must properly identifying their affiliation on the screen
- To be recognized, attendees should use the provided Chat or “raise hand” functions. They may also unmute, if necessary.
- Voting on motions will be done by “unanimous consent without objection”.
- Attendees should be aware that the meeting may be recorded by an officer for the sole purpose of note-taking in accordance with the IEEE SA Operations Manual, sub clause 5.3.3.2

Action Items:

Item #	Assigned To	Action	Due	Status
16-01	All Working Group Members	Review 1792 for possible impacts to frequency descriptions due to effects of NPIRs	22-01	
20-1	Singh Matharu	Provide discussion of international stations that have two immediately available sources	21-01	



***Working Group 4.6 - Preferred Power Supply
IEEE Standard 765 Revision Status Updates
MEETING: Hybrid - Orlando (22-01)***

Summary of actions taken for current P765 draft with RevCom:

18-01 : The key items used for development of changes made by focus groups are; no scope changes, graphics and design figures updated, expand/clarify capacity/capability and availability, and to determine if open phase items can/need to be added. Group 1 provided summary of typical station designs. Group 2 provided an update of non-Class 1E Equipment that provides a safety function, and Group 3 provided a mapping guide between IEEE 765 and GDC-71.

18-02 : A joint meeting with working groups 4.1 and 4.7 to discuss open phase. General consensus of the group (e.g. 3 working group members) was that open phase was a power quality problem and not a preferred power criteria issue. The group should focus on any changes made to Std 308-2012 and ensure consistent through 765.

19-01 : Discussion of addition of multi-unit representation in figures. Team to determine if there is a general representation. Group 4 presented draft of proposed definitions to add to the standard with no comments from working group. The proposed impact of section 5.3.4 was presented for open phase. It was discussed that the recommended practice 1792 will be revised during its next PAR to include expanded discussion related to open phase and other power quality/source degradations.

19-02 : Discussion of changes to the standard and time line for this revisions issuance in accordance with the 10 year cadence.

1. IEEE 308 changes included “A review of the open phase condition to determine if any changes to the standard was performed. It was determined that this even was already covered in the standard under the power quality clause.” Similar changes to this standard will be made updated wording for power quality in section 5.3.4 which is consistent with 308 will be provided
2. Each sub-group lead to provide draft mark-ups, if any, of sections of 765 to be reviewed during the 20-01 meeting.

Progress between 19-02 and 20-01 meeting:

1. iMeet files in “Draft Documents, drafts in progress” include:
 - a) Word document of ballot copy for last revision of 765,
 - b) Ballot comments from 2012, two were retained for consideration in future revision.
Summary of items:
 - “Figures 2, 3, and 4 each show an acceptable configurations that this is the only acceptable switchyard configuration for the PPS. Each configuration has a ring bus implying”
 - “PPS does not need to meet Class 1E Independence "should not compromise PPS Independence requirements.” Difference between this statement and that in 4.5 needs to be clarified as to what the independence requirements are for the PPS”
2. Figures 1-4 have been updated for clarity, no changes
3. Figure 5 was added for another enhanced PPS connection
4. Section 5.3.4 wording updated to encompass the open phase condition similar to that of IEEE Std 308.



***Working Group 4.6 - Preferred Power Supply
IEEE Standard 765 Revision Status Updates
MEETING: Hybrid - Orlando (22-01)***

20-01 : IEEE 765-2012 proposed revisions were presented. Working Group included a full description of revisions in an attachment of the official meeting minutes.

Figures 1-4 were reproduced in AutoCAD with no technical changes, only the inclusion of the note. Figure 5 was added as an additional enhanced design example. This example was provided for connections to unit generators with generator circuit breakers, and connections are similar to Figure 2. During the preview of changes for section 5.3.4, working group members had questions/comments on the proposed change. It was determined that in order to provide beneficial comments, a complete mark-up of the standard with the proposed wording would be needed. Working group members encouraged the focus group to compare wording presented to the newly issued IEEE 308 as well as proposed wording/existing wording for IEEE 741.

IEEE 765-2012 future revision under the next PAR items to consider were presented and discussed. See Attachment 3 of working group meeting minutes for 20-01.

A whitepaper had been written and uploaded to iMeet under WG 4.6 workspace and included information concerning SC-4 and specifics associated with IEEE 765. Due to the content and recommendations, the review and resolution to the paper was determined to be under the scope of SC-4. Each working member was encouraged to review the whitepaper if they had not already done so.

Progress between 20-01 and 20-02 meeting: Mark-up was uploaded to iMeet once completed and allowed all working group members time for comments and discussion. Any comments were be uploaded to iMeet for viewing by the entire working group.

20-02 : Reviewed updated standard. Special focus was to the changes to the figures and changes to section 5.3.4 was updated. Working group agreement for the intent to reference IEEE standard 741 for protection and degradation for power quality issues.

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21-01 : Overview of the IEEE Std. P765 Preview Vote. Presentation review for SC-4 and NPEC permission to go ballot

Discussed opportunity to take out multiple PARs out for 765 and 1792 concurrently and the level of change for next PAR for 765 small changes or larger changes associated with new nuclear plant technology.

It is the intent of the working group to produce white papers or written documents that will be written to document the background and/or the basis of the changes or existing requirements in associated with this and/or previous revisions of IEEE 765. The goal is for these white papers are ultimately to be published in IEEE transactions.



ATTACHMENT 2

Agenda

Progress between 20-01 and 20-02 meeting:

Successful ballot

Ballot period:	19 April 2021 to 19 May 2021
Ballot Group Members:	37
Votes counted Ballots:	32
Approval Rate:	93%
Approve Votes:	29
Disapprove Votes:	2
Comments:	96

21-02 : Working group reviewed ballot results and comments. A ballot committee was formed and began working through recommendations dispositions. Working group ballot committee will have ballot dispositions drafted and ready for vote prior to 22-01.

Progress between 21-02 and 22-01 meeting:

Ballot comment dispositions posted to iMeet for working group review Nov 10. Working group meeting scheduled for Dec 7th did not meet quorum for advancement, however motion to progress to re-circulation ballot was approved via electronic means. Working Group votes met quorum, and a unanimous approval rating to move to re-circulation.

Re-circulation was successful:

Ballot period:	10 Dec 2021 to 20 Dec 2021
Ballot Group Members:	37
Returned Ballots:	31
Approval Rate:	100%
Approve Votes:	31
Disapprove Votes:	0
Comments:	1

Draft P765 is currently on the schedule for Rev Com the last week of January 2022 for approval.

**Working Group 4.6 - Preferred Power Supply
IEEE Standard 765 Revision Status Updates
MEETING: Hybrid - Orlando (22-01)**

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IEEE SA recording policy

“IEEE SA applies restrictions on recording the proceedings of IEEE standards development meetings. Restrictions include, but are not limited to, the usage of audio recording, video recording, and photography by participants or observers.”

Recommendation from IEEE-SA staff about taking photos of awards, etc.

- Keep standards development portions of meetings separate from tutorials, award ceremonies, and other non-development activities.
- Make the separation clear on any agendas or session descriptions.
- If attendees request permission for photos ahead of time, any such permission cannot subvert the Ops Manual, so no photography would be allowed in the standards development portion of meetings, even if permission is granted by participants.

The IEEE SA Recording Policy is described in the IEEE SA Standards Board Operations Manual

- Clause 5.3.3.2 of the IEEE SA Standards Board Operations Manual

<https://standards.ieee.org/about/policies/opman/sect5.html>

Duty to Inform IEEE

- Participants **shall** inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants **should** inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

Ways to Inform IEEE

- **Cause an LOA to be submitted to the IEEE SA (patcom@ieee.org); or**
- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

Other Guidelines for IEEE WG's

- All IEEE SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus.
- Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
- Don't discuss the status or substance of ongoing or threatened litigation.
- Don't be silent if inappropriate topics are discussed. Formally object to the discussion immediately.

For more details, see *IEEE SA Standards Board Operations Manual*, clause 5.3.10 and
Antitrust and Competition Policy: What You Need to Know at
<http://standards.ieee.org/develop/policies/antitrust.pdf>

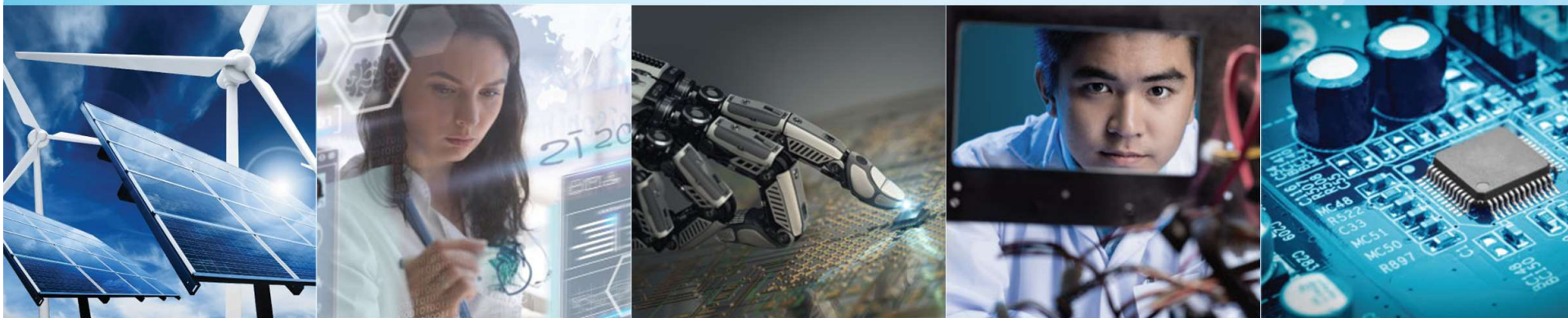
Patent-Related Information

The patent policy and the procedures used to execute that policy are documented in the:

- **IEEE SA Standards Board Bylaws**
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- **IEEE SA Standards Board Operations Manual**
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE SA
Standards Board Patent Committee Administrator
at patcom@ieee.org**



Working Group Update

January 18, 2022 (22-01)

Working Group Business

- ▶ Roll Call / Quorum / Guests
 - Membership Updates
 - James Reddy – Removed (Requested)
 - Tom Solinsky – Moved to Corresponding (Requested)
 - Hector Leon – Moved to non-voting status (No Response)
- ▶ Agenda (iMeet)
- ▶ Meeting Minutes 21-02 (iMeet)

Final Ballot Results– P765

Summary Data

- ▶ Ballot Group Members: 37

Ballot Group Members 37

Minimum should be 10

Return Ballots: (33) 89% 

Minimum return rate is 75%

Abstentions: (2) 6% 

Abstentions must be below 30%

Approval Rate: 100% 

Approval rate must be at least 75%

Final Ballot Results– P765

Comment Summary Data

▶ Comment(s): 1

It has become very apparent that WG 4.6 has neither the motivation to advance this standard, nor the willingness to clarify / reduce ambiguity. The “IEEE SA Balloting and Comment Resolution Process Guidelines” identify that a goal of the ballot process is to “...regard comments as an opportunity to clarify and correct the standard so it is less likely to be misunderstood.” With 100+ comments, not a single comment resolution basis contained the IEEE SA suggested statement “the comment will be retained for consideration if there is a subsequent revision of the standard.”

The “IEEE SA Balloting and Comment Resolution Process Guidelines” further advise “The CRG [Comment Review Group] is encouraged to engage directly with commenters [especially Do Not Approve balloters] to understand better what they are saying in a comment, and to seek feedback on its possible resolution.” That recommendation was not applied regarding this balloter.

Final Ballot Results– P765

Disposition Summary Data

► Rejected:

While the specific IEEE SA wording was not used verbatim, it was identified that there were multiple instances of dispositions containing references to holding all or part of a comment for possible future revision.

The working group reviewed all comments after initial ballot, voted on dispositions/disposition details, and voted to move forward to re-circulate the ballot. This comment resolution process was in accordance with IEEE SA Balloting and Comment Resolution Process Guidelines and IEEE SA Policies and Procedures. While the group is not procedurally required to engage directly with a commentor, this balloter was communicated with and communicated with the working group directly (in person, telephone, and electronic formats). Every attempt to resolve the negative comments was made, however, there was no indication that further resolution could be achieved. The working group determined many comments were out of scope and specific justification was included for each disposition. The working group is required to balance the obligations to the majority versus that of the minority. Therefore, per guidance, with 100% approval rating, the document has met the terms of consensus.

Previous Instructions for Initial Ballot Results– P765

IEEE SA Information for Comments in the Ballot Process

- ▶ Comments are considered from anyone who contributes them and must be addressed, but the only votes that count towards approval of the document are those of the eligible members of the balloting group.
- ▶ What a balloting group is trying to achieve is the imperative principle of consensus. **Consensus means agreement among the majority. It does not mean unanimity.** A balloting group does not need to achieve 100% approval, or even 95% or 90%.
- ▶ All ballot comments have to be responded to, and in considering a response, the draft may be modified to turn a no vote into a yes vote.

IEEE SA - The Balloting Process

Previous Instructions for Initial Ballot Results– P765

IEEE SA Information for Comment Resolution in Ballot Process

- ▶ All ballot comments have to be responded to:
 - The issue is what is done to balance the obligations to the majority versus that of the minority. Once consensus is achieved, an obligation to the majority exists to approve and publish the standard quickly.
 - However, all the negative comments must be responded to. The Working Group Chair should attempt to resolve those negative comments, but if there is no indication that further resolution can be achieved based on that, the Working Group Chair should move the document forward for approval, still having met the terms of consensus.
 - Next, examine the negative ballots with any comments. Those comments should explain any difficulties the balloter has with the current document and offer precise wording for changes that would turn their "no" vote into a "yes" vote.
 - In many cases, the balloter may offer vague solutions or even no solution at all. At this point, the Working Group (or a group established to resolve ballots) should examine the problem to see if they can resolve it on their own, or they may discuss the situation with the balloter and solicit more precise language.

Path Forward for WG 4.6

Standards Overview

- ▶ IEEE Standard 765
 - Submittal to RevCom: January 2022
 - Meeting: January 25, 2022
 - Voting in progress, 0 “no” votes
 - Expected issue: Spring 2022
- ▶ IEEE Standard 1792
 - Develop PAR Scope for IEEE Std 1792-2017
 - Work PAR and go through standard development process
 - Intent to issue prior to 2027 withdrawal date

Next Steps

- ▶ Next Meeting
 - 22-02: Chattanooga TN (with NPEC)
- ▶ Action Items
- ▶ Adjourn