



## PSCC Subcommittee C2 Meeting Minutes

Designation:	Name:
C2	Revision of C93.4 Standard for Power Line Carrier Line-Tuning Equipment (30 kHz to 500 kHz) Associated with Power Transmission Lines

Meeting Location:	Meeting Time:	Meeting Date:	Minutes Revised:	Minutes Approved:
Nashville, TN/Cisco WebEx	10:40 AM	09/12/2022	N/A	1/9/2023

PAR Output: Revision	PAR Status: Active	PAR Approval Date: 06/16/2022	PAR Expiration Date: 12/31/2026	Target Sponsor Ballot Date: N/A	Target Completion Date: N/A
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Presiding Officer:	Recorded by:	Draft Number:
Dave McGuire, Chair	David Williams, Vice-Chair	1.0

## Attendance:

Name	Affiliation	Attending via Phone (P) / Web (W) or Local (L)	M/CM/G
Dave McGuire	Hubbell/RFL	W	M
David Williams	FirstEnergy	W	M
Tony Bell	Ametek	W	M
Randy Brannen	Georgia Power	L	M
Jeff Brown	Georgia Transmission	W	M
Jim O'Brien	Duke Energy	L, W	M
Craig Palmer	Powercomm Solutions	L	M
Sudarshan Reddy	Burns & McDonnell	L	M
Ian Tualla	Duke Energy	L, W	M
Carolina Arbona	Burns & McDonnell	W	G
Raymond Avornyo	Georgia Transmission	W	G
Philip Baker	Duke Energy	W	G
Art Buanno	FirstEnergy	L, W	G
Alla Deronja	ATC	L	G
Rafael Garcia	Oncor	L	G
Byungtae Jang		W	G
Jack Jester	Exelon	L	G
Melvin Moncey Joseph	Black & Veatch	L	G
Addis Kifle	GTC	L	G
Mark Mcchesney	Oncor	W	G
Philip Winston		W	G
M:Member CM: Corresponding Member G: Guest			

Item no.	Notes	Action by
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Item no.	Notes	Action by
<b>CALL TO ORDER</b>	Performed by Chair (10:40 AM CDT)	Dave McGuire
<b>INTRODUCTIONS AND QUORUM</b>	Introductions made, quorum achieved (9 of 10 members)	SG
<b>CALL FOR PATENTS</b>	IEEE Patent slides presented to group.	Dave McGuire
<b>IEEE ETHICS &amp; COPYRIGHT POLICY</b>	IEEE Ethics and Copyright slides presented to group.	Dave McGuire
<b>APPROVAL OF PREVIOUS MINUTES</b>	Meeting minutes from 5/9/2022 meeting presented. Tony Bell motion to approve, Craig Palmer second. No objections	SG
<b>PAR Update</b>	<p>The PAR has been approved:</p>  <p><b>PC93.4</b></p> <hr/> <p><b>Type of Project:</b> Revision to IEEE Standard C93.4-2012  <b>Project Request Type:</b> Initiation / Revision  <b>PAR Request Date:</b> 09 May 2022  <b>PAR Approval Date:</b> 16 Jun 2022  <b>PAR Expiration Date:</b> 31 Dec 2026  <b>PAR Status:</b> Active  <b>Root Project:</b> C93.4-2012</p> <hr/> <p><b>1.1 Project Number:</b> PC93.4  <b>1.2 Type of Document:</b> Standard  <b>1.3 Life Cycle:</b> Full Use</p>	Dave McGuire
<b>Standard Review</b>	<p>Carryover topics identified for specific review:</p> <ul style="list-style-type: none"> <li>• Tuner Bandwidth (Jeff Brown)</li> <li>• Spark Gap (Randy Brannen)</li> </ul> <p>The present 2012 standard was opened and displayed for review. Several items were newly identified for improvement in the revision draft file:</p> <ol style="list-style-type: none"> <li>1. Language regarding purpose to be updated from PAR</li> <li>2. Normative references will be checked</li> <li>3. Service conditions: need to validate consistency with CCVT and trap standards for outdoor. Validate consistency with transceivers / C37.90 for indoor conditions.</li> <li>4. Table 4, update High pass/Low pass and Bandpass column headings to include the word "Filters" to make it clear these columns are for filters, not line tuner components.</li> <li>5. 5.2.1.2.1 appears to require a specific, limited range not to be exceeded. The words "shall be within" can be replaced with wording to indicate "operates to include" or similar</li> <li>6. Add an Annex to include visual representation of the different line tuner types and their frequency response</li> <li>7. 5.2.1.8 heading add "Tuner" to the beginning</li> <li>8. 5.2.2.4.2 Change ""then the high pass and low pass filter do not have an interaction" to "then the filters do not have an interaction" or similar since this is the bandpass section</li> <li>9. Other minor revisions</li> </ol>	SG
<b>Assignments</b>	Request iMeetCentral site. After available, load standard into attachments.	Dave McGuire

**Minutes of meeting (continued)**

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Item no.	Notes	Action by
<b>TIME OF FINAL ADJOURNMENT</b>	11:48 AM	Bell / Brown
<b>NEXT FACE TO FACE MEETINGS</b>	January 8-12, 2023, Jacksonville, FL (Hybrid)	-
<b>FUTURE MEETING ROOM REQUIREMENTS</b>	Room for 20, Projector needed Do not schedule same time as PSCC C1, P12, or P14.	

