

Working Group
C37.10 Guide for Investigation, Analysis, and Reporting of CB Failures
Mon Oct 11, 1:30PM to 3:15PM CDT
Tue Oct 12, 8:00AM to 9:45AM CDT
Fall 2021 On-Line Meeting

Chair: Neil Hutchins
Secretary: Todd Irwin

Agenda Item	
1	Call Meeting to Order
The meeting was called to order by the Chair at 1:35PM CDT	
2	Introduction of Members & Guests
Attendance for Oct 11 is included with these minutes.	
3	Review IEEE Patent and Copyright Policy slides
<p>https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf</p> <p>https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx</p> <p>Patent policy slides were shown, and a link is provided in the minutes.</p> <ul style="list-style-type: none"> • That the chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard • There were no respondents <p>Copyright policy slides were shown, and a link is provided in the minutes.</p>	
4	Attendance and Quorum Check
There were 47 members and guests in attendance. Quorum was confirmed with 16/21 members	
5	Agenda Review and Approval
<p>1st Jeff Ward 2nd Albert Livshitz No objections or abstentions Approved by acclamation</p>	
6	Approval of minutes of previous meetings (Spring 2021)
<p>1st Chris Jarnigan 2nd Dave Mitchell No objections or abstentions Approved by acclamation</p>	
7	PAR status
<ul style="list-style-type: none"> • Approved Dec 2020 • Expires Dec 31, 2024 • C37.10-2011 will be administratively withdrawn 2021 should try to be complete by 2022 • Goal to be out to first ballot in 2021 	
8	Subgroups – Reports

PC37.10 Fall 2021 Attendance

Subgroup Name	Members	Role	Participati	Type	First Name	Last Name	Company	City	State	Country	10/11/2021
HVCB C37.10	Active	Guest	Active	Member	Mauricio	Aristizabal	Hitachi ABB Power Grids	Pittsburgh	PA	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	John	Harley	FirstPower Group LLC	Twinsburg OH 44	OH	USA	X
HVCB C37.10	Active	Member	Active	Member	Keith	Flowers	Siemens Industry, Inc.	Grapevine	TX	USA	X
HVCB C37.10	Active	Guest	Active	Honorary Member	W.J. (Bill)	Bergman	Bergman& Associates Ltd.	Calgary	AB	Canada	X
HVCB C37.10	Active	Member	Active	Member	Albert	Livshitz	CE Power Engineered Services	Mason	OH	USA	X
HVCB C37.10	Active	Guest	Active	Honorary Member	Russell	Long	Retired	Pittsburgh	PA	USA	X
HVCB C37.10	Active	Guest	Active	Member	Hua Ying	Liu	Southern California Edison	Pomona	CA	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Michael	Crawford	Mitsubishi Electric	Cranberry Twp	PA	USA	X
HVCB C37.10	Active	Guest	Active	Member	Arben	Bufi	Meiden America Switchgear, Inc	Gray Court	SC	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Anthony	Ricciuti	Eaton Corporation	Moon Township	PA	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Dave	Mitchell	Mitch and Associates	Henrico	VA	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Victor	Hermosillo	GE Grid Solutions	Charleroi	PA	USA	X
HVCB C37.10	Active	Guest	Active	Member	Thomas	Pellerito	DTE Energy	Detroit	MI	USA	X
HVCB C37.10	Active	Secretary	Active	Member	Todd	Irwin	GE Grid Solutions	Smithville	MO	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Vincent	Marshall	Southern Company Services	Forest Park	GA	USA	X
HVCB C37.10	Active	Guest	Active	Member	Neil	McCord	KEC Precision	Athens	GA	USA	X
HVCB C37.10	Active	Member	Active	Member	Michael	Skidmore	AEP	Pickerington	OH	USA	X
HVCB C37.10	Active	Guest	Active	Member	Lucas	Collette	Duquesne Light	Pittsburgh	PA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Jon	Rogers	Siemens Energy, Inc	richland	MS	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Reynaldo	Ramos	Southern Company	Birmingham	AL	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Don	Steigerwald	Duke Energy	Charlotte	NC	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Jan	Weisker	Siemens AG	Berlin	Other	Germany	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Carl	Schuetz	American Transmission Compan	Waukesha	WI	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Raymond	Frazier	Ameren	St. Louis	MO	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Roy	Ayers	Nashville Electric Service	Nashville	TN	USA	X
HVCB C37.10	Active	Chair	Active	Interested Individual	Neil	Hutchins	Georgia Power Company	Forest Park	GA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Dragan	Tabakovic	Meramec Hubbell Power System	Clearwater	FL	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Wei	Zhang	Hitachi T&D Solutions, Inc.	Suwanee	GA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Daniel	Schiffbaue	Toshiba International Corporatio	Oliver	PA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Jeremy	Hensberge	Mitsubishi Electric Power Produ	Warrendale	PA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Jerry	Wen	BC Hydro	Burnaby	Other	Canada	X
HVCB C37.10	Active	Member	Active	Interested Individual	Thomas	Keels	kEElectric Engineering	Mesa	AZ	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Francois	Trichon	Schneider Electric	Saint martin d'ur	Other	France	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Scott	Lanning	S&C Electric	Libertyville	IL	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Matt	Westerdal	Bureau of Reclamation	Denver	CO	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Jeffrey	Ward	Doble Engineering Company	Marlborough	MA	USA	X

HVCB C37.10	Active	Member	Active	Interested Individual	Jennifer	Hunter	MEPPI	Warrendale	PA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Andrew	Chovanec	GE Power	Charleroi	PA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Danish	Zia	UL LLC	Melville	NY	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Christophe	Jarnigan	Southern Company Services	Birmingham	AL	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Steven	May	Southern Company	Forest Park	GA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Robert	Hanna	ABB INC	Enterprise	FL	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Leo	Lopez	WIKA Instrument, LP	Lawrenceville	GA	USA	X
HVCB C37.10	Active	Guest	Active	Staff	Ashley	Moran	IEEE Standards Association (IEEE)	Piscataway	NJ	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	Jeff	Scott	Ameren	Desloge	MO	USA	X
HVCB C37.10	Active	Member	Active	Interested Individual	John	Billings	retired	Murrysville	PA	USA	X
HVCB C37.10	Active	Guest	Active	Interested Individual	Suraj	Atere	Exelon	Mays Landing	NJ	USA	X

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Agenda Item	
	<ul style="list-style-type: none"> • Sections 1 – 3, Annex B Todd Irwin (Chris Jarnigan, Pat Dilillo, Andy Keels (annex B)) <ul style="list-style-type: none"> ○ Discussion – Bibliography – reference CIGRE studies – Check with Nenad for publication schedule ○ • Section 4 – Dave Mitchell (Mike Crawford, Pat Dilillo, Neil Hutchins, Don Steigerwalt) <ul style="list-style-type: none"> ○ Nov 5th to subgroup members ○ • Section 5 – Jeff Ward (Monty Goulkhan, Neil Hutchins, Albert Livshitz, Todd Irwin, Jack Harley) <ul style="list-style-type: none"> ○ Monty asked to be relieved ○ Comments to be transcribed to word document. ○ Add Table for Switchers ○ Discussion – Forensic tests could be added ○ Bill Bergman happy to answer questions regarding original and intent of official document ○ Testing of Grounding? • Section 6, 7, Annex A – Chris Jarnigan (Mike Skidmore, Stan Billings, Todd Irwin, Steve May, Neil Hutchins) <ul style="list-style-type: none"> ○ Subgroup met and reviewed ○ System Grounding ○ System info ○ Location of measurement points for CTs/PTs ○ Sampling rate of Oscillography ○ Switching Program – “Switching intent” ○ Adjacent switching operations • Annex C – John Webb (Keith Flowers, Todd Irwin, Jack Harley) <ul style="list-style-type: none"> ○ Follow up with John Webb <p>Bill Bergman volunteers to review language and intent with respect to original - Contact Secretary (Todd I) for email & phone number.</p>
9	<p>Other Discussion/New Business</p> <ul style="list-style-type: none"> • There will be no meeting of the WG in the 2nd slot scheduled October 12 <ul style="list-style-type: none"> ○ Subgroups are encouraged Use Oct 12 8:00-9:45AM slot for subgroup meetings and schedule separate Teams, Webex, etc at that time. • Subgroups to Have redlines to Neil & Todd Nov 30th • Redlines will be consolidated and circulated for WG comment prior to seeking approval to ballot.
10	<p>Adjourn</p> <p>The Secretary adjourned the meeting at 3:13PM</p>