

## *Minutes for Working Group C37.30.1*

*May 4, 2020*

*“Virtual Reno” Reno, NV*

- The working group met for one online session on May 4<sup>th</sup>.
- 31 participants were in attendance. There were 16 members in attendance constituting a quorum. See the attached attendance roster.
- WG Chair Carl Reigart informed the WG that the meeting would be recorded to aid in generating the meeting minutes and asked for any objections.
  - No participants objected.
- Attendees introduced themselves with their affiliations.
- WG Chair Carl Reigart addressed the members and guests of the WG to identify any patent conflicts.
  - There were no members or guests that brought up any patent conflicts to the WG.
- WG Chair went through IEEE SA copyright slides and informed the WG the following from the PowerPoint slides:
  - IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
  - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- WG reviewed balloted comments:
  - 366 balloted comments
  - WG Chair informed WG that he addressed majority of editorial comments.
- WG was informed that small task force, group of three, consisting of Carl Reigart, James Houston, and Pete Kowalik went through technical comments that the WG did not get to in the Fall 2019 meeting.
  - WG reviewed comment on harmonizing C37.100.1 with C37.30.1 in the service condition section.
    - Group of three task force recommended that we reject comment and harmonizing because there would be too many exceptions.
- WG reviewed comment on adopting new IEEE 4-2013 Std.
  - WG discussed that the new standard had less flow rate, lower resistivity, and more time (10s to 60s).
    - The test has less water but goes for longer duration at higher conductivity.
  - WG recommended to accept comment
- WG Chair reviewed work from task force for Annex B.
  - There are enough comments on Annex B that the section can be opened to be revised.
  - Devki Sharma is a new consulting member on the Annex B task force to replace Dave McMullen who retired.
    - Group consists of James Houston, Brett Boles, Laura Reid, Carl Reigart, and Devki Sharma
  - The task force has found multiple issues in the Annex and is actively working to address.

- WG reviewed work from Ad Hoc Committee reviewing addition of note or caution label for double end break/double center break switches and phase spacing.
  - Danny Hoss and James Houston informed the group of an IEEE paper that tested and measured that the middle blade of a double end break switch measured 20-30% of line-to-ground of system voltage.
    - Danny Hoss proposed wording: Typical double end break switches can be placed on vertical break phase spacing. Open blade has induced voltage 20-30% line-to-ground.
    - James Houston informed WG that he read the paper closer and proposed to change to 33%.
  - WG discussed adding value or just informing that there is induced voltage on that middle blade.
    - Several WG members including Ken Edwards and Roy Alexander informed the group that that induced voltage value will change with different applications especially if there is an overhead line directly above the disconnect switch.
  - WG recommended to add a Note to table 14 and leave off induced voltage value because of various applications.
- WG Chair to send out ballot comments after the meeting.
- Ashley Moran with IEEE-SA reminded group of the RevCom dates for submittal and that the PAR for this standard will expire in 2020. August 14, October 13.
- WG Chair informed WG that the plan is to recirculate draft by October and try to extend PAR.

Jacob Blake  
WG Secretary

WG PC37.30.1 S20 Attendance

Role	First Name	Last Name	Company	5/4/2020
Guest	Brian	Alexander	S&C Electric Canada Ltd.	X
Guest	Roy	Alexander	RWA Engineering	X
Secretary	Jacob	Blake	Hubbell Power Systems	X
Member	Brett	Boles	Southern Company	X
Guest	Steven	Brown	Allen & Hoshall	X
Member	Timothy	Cook	Pascor Atlantic	X
Member	Jeramie	Cooper	Eaton	X
Guest	Charles	Corley	Eaton	X
Guest	Frank	DeCesaro	DeCesaro Consulting Services	X
Member	Steven	Donahue	Royal Switchgear Manufacturing	X
Member	Ken	Edwards	FirstEnergy Corp.	X
Member	John	Hall	Tennessee Valley Authority	X
Member	Danny	Hoss	Southern States	X
Member	James	Houston	Southern Company Transmission	X
Member	Bill	Hurst	GE	X
Member	John	Kaminski	Siemens	X
Member	Peter	Kowalik	Cleaveland/Price Inc.	X
Guest	Wangpei	Li	Eaton	X
Guest	Jeremy	Moore	Pascor Atlantic	X
Guest	Ashley	Moran	IEEE Standards Association (IEEE-SA)	X
Guest	Christopher	Morton	Powertech Labs Inc.	X
Member	Laura	Reid	Hubbell Power Systems	X
Chair	Carl	Reigart	CDR Technical Services, LLC (Hubbell Power Systems)	X
Guest	Brent	Richardson	Hubbell	X
Guest	Grant	Ringham	BC Hydro	X
Member	Devki	Sharma	Entergy	X
Member	Jon	Spencer	Utility Solutions	X
Member	Francois	Trichon	Schneider Electric	X
Guest	Adam	Voyles	Ameren	X
Guest	Marcus	Young	Mitsubishi Electric Power Products, Inc.	X
Guest	Li	Yu	Eaton Corporation	X
Guest	John Paul	Adigwu	Southern California Edison	
Guest	Edwin	Almeida	Southern California Edison	
Guest	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)	
Guest	Frank	Blalock	Southern States LLC	
Member	Christopher	Borck	Eaton's Power Systems Division	
Guest	Mohit	Chhabra	S&C Electric Company	
Guest	Charles	Cleaveland	Cleaveland/Price Inc.	
Guest	Sterlin	Cochran	Oak & Shield LLC	
Member	Philippe	Corriveau	MindCore Technologies	
Guest	Randall	Creach	AZZ Switchgear Systems	
Guest	Federico	Di Michele	CESI S.p.A.	
Guest	Randall	Dotson	Lakeland Electric, City of Lakeland, FL	
Guest	Bernie	Dwyer	PECO	
Member	Jesus	Elizondo Yerena	AFL Global	
Guest	Richard	Frye	Eaton	
Guest	Jose	Gamboa	The H-J Family of Companies	

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Member	Ilya	Glinsky	Southern California Edison	
Member	Francisco	Guzman	Southern California Edison	
Member	Gary	Haynes	ABB Inc.	
Guest	Matthew	Hetzer	PEPCO	
Guest	Joseph	Jasinski	ITC Holdings Corp.	
Guest	jungdae	kim	hyosung	
Guest	Brendan	Kirkpatrick	Southern California Edison	
Member	Thomas	Kohler	Ameren	
Guest	Michael	Lafond	ABB	
Guest	Patrick	Lalonge	Mindcore Technologies	
Guest	Scott	Lanning	S&C Electric	
Guest	John	Leach	Consultant	
Guest	Gustavo	Leal	Dominion Energy	
Guest	Marc	Lesperance	S&C Electric Canada Ltd.	
Guest	Bradley	Lewis	AEP	
Member	Qian	Li	Powertech Labs INC.	
Guest	Alex	Lizardo	Cargill	
Guest	Nathan	Loucks	Hubbell Power Systems	
Guest	Douglas	Mason	ComEd	
Guest	Neil	McCord	KEC Precision	
Guest	Peter	Meyer	S&C Electric Company	
Guest	Daleep	Mohla	DCM Electrical Consulting Services, Inc.	
Guest	Robert	Moorhead	Dominion Energy	
Guest	Jordan	Oliver	Hubbell Power Systems	
Guest	Miklos	Orosz	Myers Controlled Power	
Guest	Pathik	Patel	Duke Energy	
Guest	Roman	Reyes	Bechtel	
Guest	David	Rhein	Hubbell	
Guest	Anthony	Ricciuti	Eaton Corporation	
Guest	Caryn	Riley	Georgia Tech/NEETRAC	
Guest	Andrew	Roberson	Siemens	
Guest	James	Ruebensam	S&C Electric Co.	
Guest	Ryan	Sherry	ITC Holdings Corp.	
Guest	Sushil	Shinde	ABB Inc.	
Guest	Michael	Shook	Hubbell Power Systems	
Corresponding Member	Kyle	Stechschulte	AEP	
Member	Donald	Swing	Powell Industries	
Member	Joseph	Usner	American Electric Power (AEP)	
Guest	James	van de Ligt	CANA High Voltage Ltd.	
Guest	Mark	Waldron	National Grid	
Guest	Randy	Ward	Aluma-Form	
Guest	John	Webb	ABB	
Guest	Jerry	Wen	BC Hydro	
Guest	James	Wenzel	Eaton	
Guest	John	Willis	Maclean Power Systems	
Guest	Robert	Wolf	Hubbell Power Systems, Inc.	
Guest	Kevin	Wood	Southern California Edison	

WG PC37.30.1 S20 Attendance

Guest	Charles	Worthington	Hubbell Power Systems	
Guest	Sandeep	Zope	Amazon Web Services (AWS)	