

Controls for Distribution Equipment

April 27, 2015 – St. Pete Beach, FL



Chair: Nenad Uzelac

Meeting Minutes

1. Call to order and introduction:

The meeting was called to order at 9:15 AM by the chair. This is the first of two sessions which will be a general update report on work since the last meeting. The second session will involve the section leads working session. All are welcome to attend both.

2. Roster Check:

Attendance included 28 attendees. There were 16 of 32 working Group members and 12 guests. One person requested membership.

Refer to Annex A for the attendance list.

3. Previous Meeting Minutes:

Minutes were placed on the screen and asked if ok. No objections received, minutes accepted.

4. Meeting Highlights:

We are about 90% complete with the document. The goal is to complete it by the end of the year. The technical contributions are mainly in and the second meeting will review this with the test leads.

In about two weeks the working rev 3 of the document will be changed based on today's contributions and the chair will send this out to the task force members for comments. When reviewing the document our members are asked to not just make comments but to provide suggestions to address them.

Review of rev 3 by the section leads:

- Overview – Mark Feltiz
 - The section has not changed significantly.
 - There was a section in the scope that said it will also point out areas where the user and manufacturer can have better resolution how to use the control. Does this need more to it? If anyone has ideas of this contact him.
 - The definitions fall under the overview. The chair needs a volunteer to go through the document to help with the definitions and acronyms.
 - Frank DeCesaro will do this
 - Anil volunteered to help with definitions.
- Environmental Factors – Christian
 - No additions to the content from last meeting.
 - Received comments from the editorial content and he considers this complete.

- Under references, there are a lot of IEC standards which are referenced as 60068-2-XX. If we fill in the XX there are about 30 or more of them. Can we keep this as XX rather than listing them all?
 - One comment was to limit the number of standards that are referenced from it.
 - One comment asked if they refer to common clauses that we could reference.
 - Nenad Uzelec will follow up to see if the IEEE recommends a way to do this.
- There is a two month contribution deadline if anyone wants to review or contribute to any of the sections.
- Mechanical Factors – Jeff Geiger but presented by Nenad Uzelac
 - They have standard mechanical, etc. items in now.
- Electrical Factors – Francois Soulard
 - Some items have been removed and clarifications made.
 - The ITIC section will be clarified by Francois Soulard. There are some items that are placed on the electronics that cannot sustain the voltage variances in the curve.
 - He wants to show that meeting these curves are not necessarily sufficient to meet utility requirements on the poles.
- Human Factors – Ed Jankowitz
 - Has not received new comments in a year therefore nothing to provide.
 - The chair asked if there was anyone outside the core group that would review this, especially from the utility perspective.
 - Anil Dhawan will read this section and provide comments back to Ed Jankowitz.
 - Francois Soulard will work off-line with Nenad Uzelac on some experience of physical construction concerns that could be in this area.
 - Noel Smith will also review this section and supply comments.
- Hardware Interface- Antone Bonner
 - Has not changed too much since last fall. Added a few sub-sections.
 - This gets into how to train, ground cables from PT to recloser. All things external to the control and how to deal with them.
 - It was discussed that the training of cables Diagram 2 specifies one pole span. For some utilities this can be quite far away. The one span does not necessarily hold for all utilities.
 - One utility practice is to have a stiff low voltage line running with the distribution lines to power the control. They have their zones defined between LV, MV, and HV. There is a distance between each of these zones to maintain
 - The paper should look into why the source location should be dedicated transformers.
 - It was questioned if a pad-mount location was considered. If not, provide some thought to it. Some customers will power from a vault also.
 - C37.60 testing is defined around the use of a dedicated transformer serving reclosers.
 - One utility has one neutral with the different voltages.
 - Noel Smith, Travis Johnson, Paul Found, and Francois Soulard will assist Antone Bonner on modifying this section to reflect the discussions of today.
- Firmware and Software – Bill was not here today
 - Not many changes from last meeting to now.
 - Noel Smith has volunteered to review this section.
- System Considerations – Paul Found
 - Still looking for basic system considerations and ancillary equipment.

- Some basic definition updates have been made. Shared content with other sections. Deleted vacuum interrupter high pot testing for being out of scope. Working with Blair of G&W regarding working with motors.
- Still looking for experience with polymeric pole usage that these can be mounted on.
- A person from SEL was contacted regarding feedback from Relay committee. The person will get back to the chair and then we will have a name to get feedback from.
- Question of ground mat requirements for poles that have controls at the bottom is questioned for touch potential concerns. This is not included here.
 - Comment on a ground mat tool is used at one utility as an option.
- Other Consideration – Chris Ambrose
 - Did some cleanups. Would like to get someone to review that has not been involved with it.
 - Cyber security on near field (distance of 50 ft)
 - Has some concerns especially with blue tooth. Not necessarily terrorists but even youth that find out they can get in and affect light. Recommend not constant broadcasting but a query with credentials needed to get in.
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5. New Business;

No new business.

6. Next meetings:

- Fall 2015 (September 20 - 24), Catamaran Resort Hotel, San Diego, CA USA
- Spring 2016 (April 25 – 29) Sonesta Resort, Hilton Head, SC USA

7. Meeting was adjourned at 12:03 PM

Annex: Member Attendance

Role	Name	Affiliation	
			Fall 14
Chair	Nenad Uzelac	G&W Electric	X
Vice chair, Lead	Francois Soulard	Hydro Quebec	X
Member	Craig Befus	BC Hydro	
Member	Adiqwu	John Paul	X
Section lead	Ambrose, Chris	Federal Pacific	X
Member	Bob Behl	ABB	
Section lead	Bonner Antone	Eaton Cooper power	X
Member	Dart David	Noja Power	X
Secretary	DeCesaro, Frank	Eaton Copper power	X
Member	Jonathan Deverick	Dominion Power	
Webmaster, Lead	Feltis Mark	SEL	X
Member	Fitchett Doug	AEP	
Section lead	Found Paul	BC Hydro	X
Member	Gieger Jeff	T&B	excused
Section lead	Glennon Bill	SEL	X
Member	Glinkowski, Mietek	ABB	
Member	LaBianco Michael	G&W Electric	
Member	Lambert Frank	Neetrac	
Member	Lee Ken	T&B	
Member	Lettow Chris	S&C	X
Section lead	Heinrich Christian	Siemens	X
Member	Hirz Harry	T&B	
Section lead	Jankowich, Edward M	T&B	X
Member	Martin Don	G&W Electric	X
Member	Mizener Jeff	Siemens Industry	
Member	Puranik Sachin	Hubbell Power Systems	
Member	Putman Larry	Powell	excused
Member	Royster, Timothy	Dominion	X
Member	Swank Jim	Eaton Cooper power	excused
Member	Tobin, Tom	S&C	X
member	Travis Johnson	Xcel energy	X

Member	Trost Karla	G&W	X
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Member	Walter Bill	We-energies	X
Member	Travis Johnson	Xcel Energy	X
Guest	Harm Bannink	DNV Kema	X
Guest	Anil Dhanan	Comed	X
Guest	Samuel Chang	PG&E	X
Guest	Andres Aviles	CE power	X
Guest	Noel Smith	Fortis Alberta	X
Guest	Nick Nakamura	G&W	X
Guest	Ian Rokser	Eaton	X
Guest	Jiong Zhang	MEPPI	X
Guest	Jerry Baskin	Federal Pacific	X

Submitted by:

Nenad Uzelac, Control task force chair
 May 5, 2015