

RODE TF Controls for Distr. Equip.

May 5, 2014, Orlando, FL (Disney World)



Chair: Nenad Uzelac

Vice Chair: Francois Soulard

Secretary: Frank DeCesaro,

Meeting Minutes

1. Call to order and introduction:

- Meeting called to order at 10:15 AM.
- Roster was routed
 - There were 25 Members and 9 Guests.

2. Self-Introductions of guests and members:

- Members introduced themselves along with their affiliations.

3. Previous Meeting Minutes

- Minutes from the last meeting were presented. They were sent out about 3 weeks after the meeting. Person who moved to approve had been misspelled. It should be Jeff Mizener .
- Jeff Mizener moved to accept and Francois Soulard seconded.

4. Control Taskforce Progress Upgrade

- We have 30 regular members and 2 corresponding members.
- Started about 10 years ago. Work restarted in 2012. Need to finish and publish this by next year.
- Nenad discussed the task for scope and what the report is supposed to cover.
- Goal is to publish this next year in the IEEE EXPLORER and expect it to be about 100 pages. Nenad is working with IEEE to make sure format is acceptable when we do.
 - After May this year, all the chapter contributions will be placed into one document and placed on the Central Desktop website. Nenad gave a look at the desktop.

5. Contributions: Chapter Leads to Present

- General
 - Nenad will move all references to the end of the document because some chapters overlap.
 - Nenad's expectation is not for the whole working group to read the whole document. However he recommends that each member cover at least one section and give comments on areas of their expertise rather than all sections.
 - Nenad will check out if there is an issue with the website to get the documents downloaded and locked. It looks like Chrome works better than IE does
 - Nenad will create a work flow diagram on how to get the comments in for review.

- Chapter 1 - Overview
- Chapter 2 – Environmental Factors – Christian Heinrich
 - Chapter is mostly complete. Input of the whole working group is desired, once we have the report compiled in a month.
- Chapter 3 – Mechanical Factors – Antone Bonner
 - Talking presentation.
 - Only bullet points discussed.
 - Considerations:
 - How do you protect against vandalism.
 - Cabling
 - Jeff Geiger is taking the lead on getting the text put together.
- Chapter 4 – Electrical Factors – Francois Soulard
 - Francois is trying to reduce the information as much as possible. Group according to what they found in standards.
 - He created a table of what presently exists in standards and placed values without comments in for now.
 - On 4.1.3 – he is still thinking and trying to find some standard or reference for this. He may need to turn back to experience of staff and suppliers.
 - Some discussion on the CBEMA or ITIC curve.
 - We should be giving some guidance as to what controls should have to meet.
 - This brought up question on what this document is supposed to do.
 - Items put in this document needs to be an approved standard referenced for testing of controls.
 - Recommendation given that the first thing to do in front of each section is to state how it ties into the scope of the document. Example, when a person reads into the section it should be “why am I reading this? Where is the scope tie in for me?” This should be in all chapters?
- Chapter 5 – Human Factors – Ed Jankowich
 - Nothing new since last meeting. He is open to redoing his section as the comments went today.
 - He was not able to find a lot of references for this section. The few comments from previous meetings have been incorporated.
 - Comment: “When you look at the layout of the control, layout etc. There are other systems in the utility that is has to tie into. When you look at nomenclature of controls it has to fit into the system it is tied to.
- Section 6 – Hardware Interface Considerations – Antone Bonner
 - Talking presentation
 - Do not have the text yet. Bullet points only.

- Looks at all the interfaces that have to be made and address each one of them.
- Section 7 – Software / Firmware Considerations – Bill Glennon
 - Gave Slide presentation
 - Gave overview of the content in their section.
 - This section does not deal with cyber security.
 - IEEE 1686 standard provides a hierarchy of access to provide. We may want to reference this.
- Section 8 - System Considerations - Paul Found
 - Gave slide presentation.
 - This is not just pole but underground and pad mount as well.
 - Question on the slide that it does not show where the power supply comes from. Some are on the next physical pole. Surges may be coming in the power supply and you can't ignore.
 - The task of the group is to look where this needs to be placed. It is covered in a few of the other chapters which is part of the problem.
 - Some of the C37.90 tests referenced in C37.60 have been superseded by IEC.
 - IEC 61000-4-2 has post installation tests recommended.
 - With gaps we may want to connect with a person on the relay committee to get some information.
 - Paul discussed some areas that may have same gaps and looks for assistance from others.
 - Question from Nenad. If you have all electronics on the top of the pole is anyone aware of any standards that cover that. Others stated not that they are aware of.
- Section 9 – Other considerations – Chris Ambrose
 - Gave slide presentation.
 - They now have a draft document. Most of it is the same as from last meeting.

6. Identify New Experts Needed:

- Nenad is asking each member to send him an email, regarding what chapter we would like to contribute to. The chapter leads are pulling a lot of weight but we need more help.
- Next time the goal is to have a workable draft to fill the bullet points in the fall.

7. Open Discussion:

- How do we get IEC standards for our committee work.
 - a. Nenad to look into this.
- Does the group see a benefit of covering sensors in this document? It does not cover controls but it lacks. Does it make sense to cover it in this document?

- a. There seems like there should be some coverage of it. Utilities have experienced issues with sensors.
 - i. Somewhere in the hardware interface section they get into sensors but do not have accuracy covered.
 - ii. Non-conventional sensors appear to be installed on the distribution line rather than in the substation. Therefore accuracy may be included in our scope? Nenad feels it should be added. It should go into section 6.
- We expect workable draft by end of the year. After we have this we should reach out to the relay committee. We are touching a lot of items covered by the relay standards.
- People who need permission to get into the web site should email Nenad.

8. New business

- Nothing new

9. Next meeting:

- Fall 2014 (September 21 - 25), Renaissance Hotel, Asheville, NC USA

10. Adjourn

- Meeting adjourned at 11:55 AM

Member Attendance

Role	Name	Affiliation	
			Spring 14
Chair	Nenad Uzelac	G&W Electric	X
Vice chair, Lead	Francois Soulard	Hydro Quebec	X
Secretary, Lead	Craig Befus	BC Hydro	<i>excused</i>
Member	Adiqwu	John Paul	X
Section lead	Ambrose, Chris	Federal Pacific	X
Member	Bob Behl	ABB	<i>excused</i>
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	X
Webmaster, Lead	Feltis Mark	SEL	X
Member	Fitchett Doug	AEP	X
Section lead	Found Paul	BC Hydro	X
Member	Gieger Jeff	T&B	X
Section lead	Glennon Bill	SEL	X

Member	Glinkowski, Mietek	ABB	<i>absent</i>
Member	LaBianco Michael	G&W Electric	X
Member	Lambert Frank	Neetrac	<i>absent</i>
Member	Lee Ken	T&B	<i>absent</i>
Member	Letow Chris	S&C	X
Section lead	Heinrich Christian	Siemens	<i>excused</i>
Member	Hirz Harry	T&B	<i>absent</i>
Section lead	Jankowich, Edward M	T&B	X
Member	Martin Don	G&W Electric	X
Member	Mizener Jeff	Siemens Industry	X
Member	Puranik Sachin	Hubbell Power Systems	<i>absent</i>
Member	Putman Larry	Powell	X
Member	Royster, Timothy	Dominion	X
Member	Swank Jim	Eaton Cooper power	X
Member	Tobin, Tom	S&C	X
Member	Walter Bill	We-energies	X
Guest	Reid Herzog	OG&E	X
Guest	Sam Chang	PG&E	X
Guest	Chris Borck	Eaton	x
Guest	Travis Johnson	Xcel Energy	X
Guest	Steve Vatteroff	ABB	X
Guest	Brad Lewis	AEP	X
Guest	John Vartaninan	National Grid	X
Guest	Timothy Shane McGee	Siemens Energy	X
Guest	Tyler Ujhazy	SCE	X
Guest	Vincent Marec	G&W Electric	X

Submitted by:

Nenad Uzelac
Controls for Distribution Equipment Task Force Chair
May 10, 2014