

Working Group D2 Cable Systems (IEEE 525)
Meeting Notes of May 2, 2013 – Pittsburgh, PA

Chair: Debra Longtin
Vice Chair: Steve Shelton
Secretary: Brian Farmer

Meeting called to order by the Chair, Deb Longtin at 8:00, welcoming members and guests.

Total attendance: 33; 14 Members; 2 Corresponding Members; 17 Guests

Abdallah, Hanna	Member
Barac, Radoslav	Member
Bougie, James	Guest
Brown, Robert (Steve)	Guest
Buhle, Kevin	Guest *
Burkhart, Don	Guest
Chavis, Michael	Guest
Farmer, Brian	Secretary
Gaetz, Alan	Member
Gavrilovic, Milomir	Guest *
Gravelle, Joseph	Member
Lacroix, Marc	Guest *
Lively, William	Guest *
Longtin, Debra	Chair
Maniego, Reginaldo	Guest
Moreau, DJ	Member

Nadeau, Mike	Member
Noori, Mike	Guest
Nuckles, Kim	Guest *
Patel, Pathik	Guest *
Patel, Shashikant	Corresponding Member
Preuss, Craig	Corresponding Member
Proios, Thomas	Guest *
Purcell, James	Guest
Shelton, Steven	Vice Chair
Shvartsberg, Boris	Member
Smitherman, Phil	Guest
Stargel, Ryan	Guest
Strahl, Kenneth	Member
Thompson, Bill	Member
Vacha, Matthew	Guest
Watkins, Diane	Member
Zook, Adam	Member

* Requested change to member status.

1. The statement was read regarding call for acknowledgement of potentially essential patents.
2. Brian reviewed the meeting notes from the Nashville meeting in October, 2012.
3. The revision status and schedule were reviewed with the following noted:
 - Review draft today; Large scale example is essentially done
 - Adam will have the complete draft on the WG website by the first week of June. **Any last minute corrections must be to Adam by 5/18.**
 - Comments are expected back from WG by 9/14/13 so they can be reviewed at Nashville.
 - Revision to be ready to submit to SA for review by July of 2014
 - Ballot winter of 2015 (Review comments at Spring 2015 meeting)
 - Par expires the end of 2015.
4. Deb will consider using the ballot comment spreadsheet to capture WG comments.

5. Review of previous assignments by Section/Annex:
 - 7 Dale Fox has not submitted any info or been in contact. **Will need to reassign.**
 - 7.6 Joe Gravelle has not completed. **Would like some assistance.**
 - 8.11 Adam reviewed the reference paper on testing. Found it not pertinent.
 - 9 Deb reviewed. No historical tie was found. **Delete Section 9 from the standard.**
 - Annex D Craig Preuss submitted in March. Complete.
 - Annex H Brian F. submitted last August. Complete.
 - Annex J Jamming Dewan J. Not complete. **Reassign.**
 - Annex M Pahtik to review. Not complete.
 - Annex P Alan Gaetz submitted a draft in January. DJ Moreau submitted latest just prior to this meeting. Group to review this meeting. Randy C. also submitted some comments.

6. The large station example was presented and walked through by Alan Gaetz and DJ Moreau. Of note were:
 - Followed same format as Annex O.
 - Lightning parameters and soil conditions may not be necessary (but need to check shielding section) will review and possibly remove. Need to harmonize with Annex O.
 - Station service is 480 vac and 208/120 vac. Agreed to delete the 480 vac.
 - On single line drawing, move tuner to line side of the trap.
 - Need material from communications group on fiber optic type and routing.
 - Asked if MV cable should be included? Yes.
 - Site plans and conduit plan were revised to align with each other.
 - Questioned if short circuit calculations should be made for all circuits or representative sample. Chair suggested to do one calc. as an example and a general statement that SC calculations are usually not critical for control and small power cables.
 - Question about dc voltage range, origin of 116 vdc. Appears that 116 volt is from Annex O and based on 58 cell battery – worst case design which some people do use. Need to clarify text. Harmonize with Annex O.
 - Other minor changes made during the course of the review.

7. Communications Task Force: Craig summarized the information his group has provided for Sections 5 & 6 and Annex D & H. It is quite extensive. Some discussion ensued with regard to redundancy and segregation requirements for protection. These can be quite complicated. For example, one could have two fiber cables routed separately or a single fiber cable and a microwave channel. Same issue with regard to CT circuits. The group agreed to have language added in the nature of saying “this example does not include redundancy, but it should be considered.”

8. Review of other sections

- Acronyms: Need to decide if define up front or at first occurrence in the text. Adam to check style guide. If not specified, group to decide next meeting.
- 4.3.1 Add statement that the mechanical strength of the conductor should be considered in sizing the cable.
- 5&6 – Extensively rewritten by Craig. Group reviewed several sub-sections.

9. New Assignments: The following new assignments were made at this meeting.

Section	Person	Comment
5 & 6, Annex D & H	Jim Bougie with Craig Preuss	Overall review for content and level of detail
7	Kim Nuckles	Review and address any comments from Dale Fox
7.6	Joe Gravelle & Milomir Gavrilovic	Segregation
Annex F	Ed Lively	Review and address any comments from Dale Fox
Annex J	DJ Moreau	Jamming ratios & will contact Boris S. to identify error or issue he raised with respect to existing percent fill equations.
Whole document	Kevin Buhle	Overall document review for consistency, flow, gaps, etc. Also check on usage of MCM vs. kcmil.

10. Next Meeting is in Nashville, TN, October 7-10, 2013.

Meeting Adjourned 5:15.

Meeting Notes submitted by Brian Farmer, Secretary