Contents

1.   Summary

Working group meeting held with the intention of bringing an update to Standard IEEE 837 with respect to the current open PAR. The existing PAR request was extended and two key technical testing issues were voted on and resolved

2.   Agenda Officer's Announcement

Reviewed the status of the PAR and it was indicated that we did have the ability to extend some time.

The request to extend until the end of December 2012 has been issued.

3.   Introductions of Members and Guests (all) / Sign-In Sheet

Attendees: 44 members and guests, 18 members (total membership: 29)

Attendance as follows:

Role	Participation Status	First Name	Last Name	5/1/2013
Guest	Active	Syed S	Ali	X
Member	Active	Bryan	Beske	X
Member	Active	Dale	Boling	X
Guest	Active	Brian	Burke	X
Guest	Active	David	Cady	X
Guest	Active	James	Cain	X
Member	Active	Bill	Carman	X
Guest	Active	Anthony	Centore	X
Guest	Active	Michael	Chavis	X
Guest	Active	Dr. Franco	D'Alessandro	X
Member	Active	Dennis	DeCosta	X
Member	Active	David	Garrett	X
Guest	Active	jonathan	goudy	X
Guest	Active	Keith	Graham	X
Corresponding Member	Active	Joseph	Gravelle	X
Member	Active	Steve	Greenfield	X
Member	Active	Thomas	Harger	X
Member	Active	Martin	Havelka	X
Member	Active	Robert	Hobbs	X
Guest	Active	Calvin	Josaphat	X
Member	Active	Richard	Keil	X
Chair	Active	Dave	Kelley	X
Guest	Active	William	Lively	X
Guest	Active	Jim	Macroglou	X
Guest	Active	Reginaldo	Maniego	X

Member	Active	Cary	Mans	X
Guest	Active	JON	MARTIN	X
Guest	Active	Shawn	McGann	X
Guest	Active	Carl	Moller	X
Guest	Active	Robert	Nowell	X
Guest	Active	Stephen	Palmer	X
Guest	Active	Shashikant	Patel	X
Guest	Active	Thomas	Proios	X
Guest	Active	Michael	Roos	X
Member	Active	Jesse	Rorabaugh	X
Secretary	Active	Michael	Rzasa	X
Member	Active	Doug	Smith	X
Member	Active	Greg J.	Steinman	X
Member	Active	Curtis	Stidham	X
Vice-Chair	Active	Brian	Story	X
Guest	Active	Kenneth	Strahl	X
Guest	Active	Huili	Sun	X
Guest	Active	Matthew	Vacha	X
Guest	Active	Don	Wengerter	X

4.   Status of PAR

The PAR has been in place since June 12th, 2008 and is valid through December 2012. PAR has been extended for two (2) additional years until December 2014.

5.   Working Group Timing

The WG will work to the following project and ensure we stay on task with latest request for a PAR extension.

Working Group E9: the 837 Edit Crew
Recent news: JTC Meeting Decisions:

	Action	Status	Due	Owner
1	Mechanical Pull Test Removed from the standard	Complete	1/16/2013	Rzasa
2	update Figure 1 to show a terminal and a splice	Complete	1/16/2013	Rzasa
3	Update Figure 4 to show only one test sample	Complete	1/25/2013	Havelka
4	Align Table 6 and 7 (now 5 and 6 due to action 1) with Table 4 (now 3)	Complete	1/20/2013	Rorabough
5	remove reference to AL in bibliography and normative reference	Complete	1/16/2013	Rzasa
6	expand figure 6 to be the standalone current cycle setup, remove figures 7-10, possibly include a figure as a suggested setup	Complete	1/20/2013	Havelka
7	review initial Draft 10 (result of actions 1-6) for accuracy	Complete	2/13/2013	Greenfield, Harger, Hobbs, Kelley
8	accept word document changes, send to IEEE for template update	Complete	2/15/2013	Rzasa
9	Post template update for review	Complete	2/23/2013	Greenfield, Harger, Hobbs, Kelley
10	send out internal ballot/post on central desktop	Complete	3/1/2013	Rzasa
11	Review and provide comments	Complete	4/1/2013	Working Group E9
12	Consolidate Comments	Complete	4/15/2013	Rzasa
13	Review/disposition comments	Complete	4/27/2013	Working Group E9
14	Update Draft	Complete	6/14/2013	Rorabough/Rzasa
15	Submit for editorial review (MEC)	Open	6/20/2013	Kelley/IEEE
16	Invitation to Ballot	Open	7/15/2013	Kelley/IEEE
17	Resolve Comments	Open	10/7/2013	Kelley/E9 Working Group
18	Update Draft/Recirculate	Open	12/31/2013	Rzasa/Rorabough

6.   Discussion Summary and Voting

An initial discussion was held regarding the administrative services used by committee to manage our progress. It was suggested and motioned to discontinue the use of IEEE-SA's central desktop and return to the "Substations" website.

Vote Results:
- For Discontinuing: 11
- Remain with Central Desktop: 2

Group Decision: Discontinue the use of Central Desktop

The group proceeded to review the comments on the draft. In general, the changes were simple and agreed upon by the members, a change log can be found at the end of this document. A few specific votes were held and described immediately below.

A motion was made to remove section 5.3.2 (Resistance Criteria).

Vote Results:
- Keep the section: 14
- Delete: 4

Group Decision: Keep the section

The next vote was in regards to allowing the type of copper (Hard Drawn/Soft Drawn) to be up to the one doing the testing.

Vote Results:
- Leave Document as is (specifies in some locations): 9
- Update to state always up to Tester: 6

Group Decision: The document we remain the same in regards to type of copper conductor

A final voting discussion was held in regards to moving the draft to the MEC and forming a ballot pool provided the changed discussed take place.

Vote Results:
- Move forward: 15
- Wait and Review next meeting: 0

Group Decision: Update draft and move to MEC

A final discussion was held in regards to the substation site and the password protection for the E9 files. The password will not be shared within the minutes, if it is needed, contact Mike Rzasa (603 459 4039) and he will share the password with group members.

7.   Next Meeting

The next meeting to be held in Nashville, TN the week of October 7th

8.   Appendix/Document Change Notes

(a copy of the "marked-up" draft 10 of the pdf is available as well to compliment this list)

Comment	Description
mpr1	Jesse to standardize look and feel of fonts and tables
mpr2	accept
RJ3	reject
E3	
mpr4	
E4 (Greenfield)	comment is removed
mpr5	References table 3 regarding the EMF forces. Desire to word smith
	spirit: go to 90% at 250 and above
	Lane is working on the wording in the meeting
NEW0	add to line 36 page 3 (after standard)
E6	Remove Minimum (accept)
mpr7	same as E6
E8	Remove Minimum (accept)
mpr9	same as E8
mpr10	capitalization of EMF or not - Dave Kelley to determine
TH11	accept
E12	see second motion, we kept it
mpr13	remove the word "Note", do not let it span two pages
TH15	already done, made subscript
TH16	In 8.6 shown in figure 6
mpr17	same as TH16
NEW1	5.3.2.1 note 1, Rcc1 should be like figure
mpr18	accept, format as above (don't capitalize "W") (remove where)
NEW2	Tm replace with Ts or Tc (introduce SI units for each equation) (section 5.3.2.2 equation 2)
	line 6 is alpha 20
	Jesse has notes, will update
TH19	added space, done
mpr20	withdrawn comment
mpr21	adjust table fit columns correctly, leave columns
mpr22	withdrawn comment
mpr23	formats changed (CM41)
E24	Start with "Four samples"
NEW3	change Electromagnetic Force Test (emf) as determined by Dave
mpr25	same as E24
mpr26	remove clause 4 three time references, add a sentence that says "See Clause 4 for further information"
mpr27	withdrawn comment
mpr28	strike the quotes and and lower case the word "connections"

e29	Start with "Four samples"
mpr30	same as E29
mpr31	update figure
mpr32	fix grammar
mpr33	after match "each peak"
mpr34	All peaks have to meet or exceed the first cycle peak value indicated in table 3.
mpr35	good, except, leave "heating"
mpr36	add another note for copper clad steel for how to find value
	Jesse will rework the table/formula to state how values are created. As well as update appendix E
	Jesse will decrement at 4/0 and below
E37	accept
mpr38	accept
mpr39	accept
e40	accept
NEW4	Two 2/03 needs to have superscript 3
mpr41	correct peak values
mpr42	accept
th43	no, leave it as is
th44	comment
E45	Strike sentence, rewrite: Four connections shall be required.
mpr46	make table not span pages
mpr47	us nominal values
mpr48	strike aluminum
NEW4	Add copper clad row to table 6
mpr49	update figure
mpr50	remove figure 7-10
TH51	done
E52	same as E53
mpr53	Plates required for cable-to-rigid connections (exothermic connections and lugs) may be constructed from a corrosion-resistant material such as 316 stainless steel to avoid excessive corrosion of the plate
mpr54	don't span pages (use nominal values on ground rod)
mpr55	use "x" for multiplication and duplicate equation
mpr56	accept
mpr57	fix equation and use "x" for multiplication
mpr58	withdrawn comment
th59	make all variables "italicized"
NEW5	make Volt (v) capital
th60	Remove "with peak currents … Table X.1.