

Preliminary Agenda 2 March 2011

PRELIMINARY MEETING AGENDA – CE-2.1 SUBCOMMITTEE ON TEST PROCEDURES 3 – 4 May 2011 in Orlando, FL

1. Approval of the 28 - 29 September 2010 Minutes

The minutes of the 27 – 28 April 2010 meeting in Orlando, FL were approved. Moved by Don Chambers and seconded by Ed Wypasek. The motion was unanimously moved and approved.

It is noted that all actions taken by the subcommittee will be simultaneously approved by the CE-2.0 committee.

2. TEST PROCEDURE PROJECTS (BY PROJECT NUMBER)

A. SP-5156-A, TP-17C, Temperature Life (Max Peel)

- Sent standard and cover memo (mccwil434) to EIA for 2nd SP ballot on 6 December 2010 on behalf of Max Peel. Also sent letter to Max Peel (mpeel34) on his unfavorable ballot with comments, requesting that he return his purple card (attached to the letter) to EIA.
- SP Ballot issued 16 February 2011 with a ballot expiration date of 16 April 2011.

B. SP-5188, EIA-364-80, Low Frequency Shielding Effectiveness Test Procedure for Electrical Connectors and Sockets (Kevin Rickard)

Received project number 3 June 2009 and notified Kevin Rickard.

C. SP-5189, EIA-364-45A Firewall Flame Test Procedures for Electrical Connectors (Don Chambers)

- Received revised copy from Don Chambers on 17 January 2011.
- Sent reformatted copy to Don Chambers on 24 January 2011.
- Don Chambers indicated that he had more changes to make on 24 January 2011

D. SP-5199, TP-83, Shell - to - Shell Conductivity Test Procedures for Electrical Connectors (Kevin Rickard)

- Received project number 21 October 2009 and notified Kevin Rickard.

E. SP-5200-A1, TP-25D, Probe Damage Test Procedure for Electrical Connectors (Dave Bouzek)

- Project Completed.

Preliminary Agenda 2 March 2011

F. SP-5203, EIA-364-1005, Fretting Corrosion (Max Peel and Vince Pascucci)

- Electronic ballot issued 10 November 2010 with a ballot expiration date of 11 January 2011.
- ANSI ballot expires 15 February 2011.

G. SP-5205, TP-78B, Cavity – to – Cavity Leakage Bonding Integrity Test Procedure for Electrical Connectors (Don Chambers)

- Project Completed.

H. SP-5207, EIA-364-114, Test Procedures for Coupling and Uncoupling Force Test Procedures for Electrical Connectors, Sockets and Accessories (Max Peel)

- Project Completed.

I. SP-5208, Standards Due for 5-Year Review, EIA-364, TP-11, 12, 62, 81, 82, and 91 (Carl Fritz)

5 Standards Due for 5 Year review

Test	EIA-364 TP	Rev	Date of last issue	5 Year due date	Years past due	Comments
Resistance to solvents	11	B	June-05	May-10	1	Published Jun 05
Restricted entry	12	A	June-05	May-10	1	Published Jun 05
Terminal strength	62	A	July-04	June-09	1	Published Jul 04
Combustibility characteristics of connector housings	81	A	March-05	February-10	1	Published Mar 05
Corrosivity	82	A	March-05	February-10	1	Published Mar 05
Dust *	91	A	April-05	March-10	1	Published Apr 05

* See EIA-364-91 under other business. This standard will not be reaffirmed at this time.

- Received TP-11B, 12A, 81A and 82A by US mail on 5 November 2001 and notified ECA that the quality of the document was poor and should be reprinted. The copy on the ECA web site is of equal poor quality.
- Received TP-62A by US mail on 12 November 2010 and is acceptable.

Preliminary Agenda 2 March 2011

J. SP-5210, EIA-364-31D, Humidity Test Procedure for Electrical Connectors and Sockets (Max Peel)

- Received project number 8 June 2010.

K. SP-5211, EIA-364-34, Ambient Condensation Test Procedure for Electrical Connector and Sockets (Max Peel)

- Received project number 8 June 2010.

L. SP-5212, EIA-364-28F, Vibration (Max Peel)

- Sent standard and cover memo (mccwil427) to EIA for EDEC ballot on 18 October 2010. Sent letter to Bob Druckenmiller (mdruckenmiller20) acknowledging his approved ballot with comment.

M. SP-5213, EIA-364-27C, Shock (Max Peel)

- Sent standard and cover memo (mccwil428) to EIA for EDEC ballot on 18 October 2010. Sent letters to Bob Druckenmiller (mdruckenmiller21) and Ed Wypasek (mwypasek) acknowledging their approved ballots with comments.

N. SP-5215, EIA-364-13E, Mating and Unmating Force Test Procedures for Electrical Connectors and Sockets (Max Peel)

- Sent the standard, cover memo (mccwil432) and Background Data Sheet to EIA for SP ballot on 6 December 2010 on behalf of Max Peel.
- SP Ballot issued 23 December 2010 with a ballot expiration date of 23 February 2011.
- EIA SP ballot count following the 23 February 2011 expiration date was 10 affirmative and no comments. Notified project leader on 28 February 2011.

O. SP-5216, TP-32F, Thermal Shock (Dave Benfer)

- Sent the standard, cover memo (mmikoski2) and Background Data Sheet to EIA for SP ballot on 17 December 2010 on behalf of Dave Benfer.
- SP Ballot issued 16 February 2011 with a ballot expiration date of 16 April 2011.

P. SP-5218, TP-49, Ultraviolet Radiation Test Procedures for Electrical Connectors (Don Chambers)

- Received project number from EIA on 6 January 2011 and notified Don Chambers.

Preliminary Agenda 2 March 2011

Q. PN5219, TP-57, Coupling Pin Strength Test Procedure for Circular Bayonet Electrical Connectors (Ed Wypasek)

- Sent the standard, cover memo (mmikoski10) and Background Data Sheet to EIA for Letter ballot on 23 February 2011 on behalf of Ed Wypasek.
- Letter Ballot issued 23 February 2011 with a ballot expiration date of 23 March 2011.

R. SP-5220, TP-56E, Resistance to Soldering Heat Test Procedure for Electrical Connectors and Sockets (John Healey)

- Sent the standard, cover memo (mmikoski9) and Background Data Sheet to EIA for SP ballot on 23 February 2011 on behalf of John Healey.
- SP Ballot issued 1 March 2011 with a ballot expiration date of 1 May 2011.

3. TEST PROCEDURES AWAITING PROJECT NUMBERS (BY TP NUMBER)

A. TP-79, Insert Bond Strength Test Procedures for Electrical Connectors (Kevin Rickard)

Kevin Rickard reported that the revision is under development.

B. J-STD-075 (Requested by Frank Ruffino)

John Healey gave an update on the contents of J-STD-020 and J-STD-075. John has requested that members provide comments relative to the content of J-STD-075. The main question is “If you run TP-56 can you comply with the rating requirements indicated in J-STD-075”. Is there any justification that connectors be included in J-STD-075. There may also be a need to review TP-56 to determine if there is anything that needs revised as a result of J-STD-075. **The committees position at the present time there is no justification for including connectors in the rating system as presented in J-STD-075.**

It was moved by Dave Benfer and seconded by Don Chambers to send a letter to Paul Krystek presenting the committee’s concerns about including connectors in J-STD-075. The motion was unanimously approved. Chairman Frank has agreed to prepare the letter.

The committee agreed to review TP-56. John Healey has agreed to be project leader. It was moved by John Healey and seconded by Dave Benfer to obtain a project number, and send the standard to EIA for a SP ballot. The motion was unanimously approved. It was also unanimously moved and approved that if there are sufficient ballots and no rejections received that the standard be sent to EIA for EDEC ballot to reaffirm and publication as an EIA Standard. In addition the standard should also be submitted to ANSI for publication as an American National Standard. It is also agreed that if the project leader receives editorial or technical comments the document may be revised and submitted for a subsequent ballot.

Preliminary Agenda 2 March 2011

C. TP-65C, MFG (New project to revise TP-65B) (Frank Ruffino).

This project will be addressed following the release of TP-65B.

The unanimously agreed to take this on as a new project to revise the standard. Frank Ruffino has agreed to be project leader. It was moved by Bob Druckenmiller and seconded by Don Chambers to obtain a project number for the purpose revising the standard and send out on letter ballot or SP as determined by the project leader. The motion was unanimously approved. It was also unanimously moved and approved that if there are sufficient ballots and no rejections received that the standard be sent to EIA for EDEC ballot and publication as an EIA Standard. In addition the standard should also be submitted to ANSI for publication as an American National Standard.

- The following comment was noted and is considered a technical change. It will be considered at the next revision of the standard.

Section 4.4.1.3 These coupons shall be placed in the chamber ~~between approximately at the mid point of the first half of the test duration and the mid point of the second half~~ at the start of the test. The coupons shall be removed after exposure times of 48 hours, unless otherwise specified. A new set of coupons prepared in accordance with 3.1.1 shall be used during each exposure period. Location of the coupons shall be noted on the data sheet.

- Note received from Don Chambers 18 January 2010.

Carl,

For the future, when we revise TP-65 we need to change the title to:

Mixed Flowing Gas Test Procedure for Electrical Connectors, Contacts and Sockets.

Have a great week

Frank reported that changes are being developed.

Frank indicated there are some items that are vague. He would like to send out a questionnaire soliciting comments prior to formulating specific changes to the standard. He would like to go out with the questionnaire in the near future.

Preliminary Agenda 2 March 2011

D. TP-53 Nitric Acid Vapor Test (Max Peel)

Max Peel recently replied to a query regarding the amount of nitric acid per volume in a desiccator.

The committee discussed added a statement to clarify the nitric acid to desiccator volume. The members felt that the standard is clear in defining the concentration of nitric acid per desiccator volume, as well as permitted air space above the acid. It was also noted that nominal desiccator volume may not be exact volume. The exact volume may be determined the exact amount of water it takes to fill the desiccators with water. It was determined that no action was required at this time but may be considered if clarification is required in the 5-year review process.

- 5-year review date is February 2012.

E. TP-66 (MIL-STD-1344, method 3008), EMI Shielding Effectiveness Test Procedures for Electrical Connectors (Kevin Rickard)

Work is on going.

F. TP-83, Shell-to-Shell and Shell-to-Bulkhead Resistance Test Procedures for Electrical Connectors (Kevin Rickard)

Work is on going.

4. OTHER BUSINESS

A. Current overload

The committee has agreed to consider this in the future.

B. EIA-364-91 Dust Test (Frank Ruffino)

Frank Ruffino has agreed to take this on as a project. It was moved by Don Chambers and seconded by John Healey to obtain a project number to revise the standard, and send to EIA for a letter ballot and/or SP ballot at the discretion of the project leader. The motion was unanimously approved. It was also unanimously moved and approved that if there are sufficient ballots and no rejections received that the standard be sent to EIA for EDEC ballot for publication as an EIA Standard. In addition the standard should also be submitted to ANSI for publication as an American National Standard. It is also agreed that if the project leader receives editorial or technical comments the document may be revised and submitted for a subsequent ballot.

Preliminary Agenda 2 March 2011

C. MIL-DTL-38999 TESTS

Check 38999 that are not covered by a test procedure. 26482? See what tests are not unique to a specific specification. Consider developing a TP only if it has multiple applications.

This includes adding a vibration sweep method to the vibration TP-28. This is for residence surge. Spelled out in 38999 clause 4.5.23.2.3.

Electrolytic erosion, spelled out in 38999 clause 4.5.35.

The following table was included with the DLA LAND AND MARITIME liaison report (formerly DSCC) presented by Ed Wypasek:

I highlighted the ones I would like to have the committee to glance at and start a project. Carl indicated that he would provide guidance in the development of any new TP's.

MIL-DTL-38999 Tests not covered by a test procedure		Other documents with stand alone tests								
Test	Paragraph	28840	26482	22992	27599	26500 83723	81790	55243	25955	5015
Thermal sock - Hermetics only	4.5.3									
Plating adhesion	4.5.5									
Coupling torque (364-13) threaded?	4.5.7				X	X				
Durability 364-09	4.5.8	X	X	X	X	X		X	X	X
Electrical engagement	4.5.15									
External bending moment 364-43	4.5.16	X								X
Coupling pin strength	4.5.17	X			X					
Gauge location	4.5.18									
Gauge retention	4.5.19									
Accessory thread strength	4.5.22		X							
Shell spring finger force	4.5.27				X					
EMI shielding low frequencies 364-80	4.5.28.1	X			X					
Pin contact stability	4.5.31	X	X							
Contact walkout	4.5.32									
Installation and removal tool abuse	4.5.33		X							
Removal tool rotation	4.5.33.1									
High temperature exposure	4.5.34									
Electrolytic erosion	4.5.35									
Contact plating thickness ASTMs	4.5.37		X		X		X			
Ice resistance	4.5.40									
Hydrytic stability (classes J and M)	4.5.43									

EIA-364- new TP?	X
EIA-364-TP not reference in spec.	X
EIA-364-TP reference in spec.	X
NA	X

Preliminary Agenda 2 March 2011

5. NEW BUSINESS

A. EIA-364-75, Lightning Strike

- The following note was received from Don Chambers on 9 Jun 2010.

On another note, please make a note for future implementation, TP-75 needs a direction that this test procedure is not to be run on multiple cables and connectors in series. Somebody is trying to "save money" by having a bunch of connectors and cables in series for a lightning strike test. Ugh

B. SP-XXXX, Standards Due for 5-Year Review, EIA-364, TP- 2, 6, 9, 14, 15, 23, 35, 42, 46, 48, 50, 54, 89, 95, 99, 100, 102 and 103 (Carl Fritz)

18 Standards Due for 5 Year review

Test	EIA-364 TP	Rev	Date of last issue	5 Year due date	Years past due	Comments
@ Air leakage	2	C	March-06	February-11	0	Reaffirmed 27 Mar 06
Contact resistance	6	C	March-06	February-11	0	Published Mar 06
Durability	9	C	March-06	February-11	0	Reaffirmed 27 Mar 06
Ozone exposure	14	B	March-06	February-11	0	Reaffirmed 27 Mar 06
Contact strength (bend)	15	A	March-06	February-11	0	Published Mar 06
Low level contact resistance	23	C	June-06	May-11	0	Published Jun 06
@ Insert retention	35	B	March-06	February-11	0	Reaffirmed 27 Mar 06
@ Impact	42	B	March-06	February-11	0	Reaffirmed 31 Mar 06
Microsecond discontinuity	46	B	January-06	December-10	0	Published Jan 06
+ Metallic coating thickness measurement of contacts	48	A	March-06	February-11	0	Published Mar 06
# Dust (fine sand)	50	A	March-06	February-11	0	Reaffirmed 27 Mar 06
Magnetic permeability	54	A	March-06	February-11	0	Reaffirmed 31 Mar 06
+ Space applications of connectors	89	A	January-06	December-10	0	Published Jan 06
Full mating and mating stability	95		March-06	February-11	0	Reaffirmed 31 Mar 06
Gage location and retention	99		March-06	February-11	0	Reaffirmed 31 Mar 06
Marking permeability	100		March-06	February-11	0	Reaffirmed 31 Mar 06
Rise time degradation	102		March-06	February-11	0	Reaffirmed 27 Mar 06
Propagation delay	103		March-06	February-11	0	Reaffirmed 27 Mar 06

+ Standard has been superseded. See no need to reaffirm.

Standard could stand document format update.

@ Standard should be revised to provide a clean copy to the web site.

NOTE: All other document formats are up to date on all of the above listed standards for 5-year review.

Preliminary Agenda 2 March 2011

6. FUTURE WORK

A. EIA-364-1000

- Received the following note from Max Peel related to a reply to an inquiry through EIA on 8 December 2010 and my reply to Max:

The only thing I would ask is to delete the term surface treatment and stipulate what it is . If they want to do that, it's OK with me. If not that's OK as well.

- My reply:

OK. I will capture the comment so when the standard comes up for revision it can be considered at that time. I see no urgency to justify a revision.

Respectfully submitted,

Carl Fritz, Chairman CE-2.1