

Korea FPD Metrology Committee Meeting Minutes

Friday February 1, 2013
#4205 Trade Tower, SEMI Korea Office, Seoul, Korea

Next Committee Meeting

Thursday, April 25, 2013, 14:00-16:00 <KST>
SEMI Korea office, Seoul, Korea

Committee Announcements

The PDP sub-committee is disbanded and Tone and Color task force remains under the committee continuing its activity.

Table 1 Meeting Attendees

Co-Chairs: JongSeo Lee (Samsung Display)/ Il Ho Kin (LMS)

SEMI Staff: Natalie Shim

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
LG Electronic	Lee	Myong Young	Samsung Display	Chong	Jong Ho
LG Electronic	Kang	Kyung Jin	Samsung Display	Lee	Eun Jung
LG Display	Lee	Don-Gyou	Samsung Display	Lee	JongSeo
LMS	Kim	Il Ho			

Table 2 Leadership Changes

Sekwang Park (Kyungpook University) resigned as PDP Sub-committee leader.

Table 3 Ballot Results (or move to Section 4, Ballot Review)

Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

Failed ballots and line items were returned to the originating task forces for re-work and re-balloting.

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
4313D	New Standard, Test Method of Backlight Units Reliability	Failed and rework
5379B	Revision to SEMI D36-0306, Terminology for LCD Backlight Unit	Failed and rework
4571G	New Standard, Test Method of PDP Tone and Color Reproduction	Failed and rework

Table 4 Authorized Ballots

<i>#</i>	<i>When</i>	<i>SC/TF/WG</i>	<i>Details</i>
4313E	Cycle 3	Backlight Unit TF	New Standard: Test Method of Backlight Units Reliability
5379C	Cycle 3	Backlight Unit TF	Revision to SEMI D36-0306, Terminology for LCD Backlight Unit
4571H	Cycle 2	Tone and Color TF	New Standard, Test Method of PDP Tone and Color Reproduction

Table 5 Authorized Activities

None

Table 6 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
2013FEB-01	Natalie Shim	Check Doc.# 5292 development status and forward it to the committee members.
2013FEB-02	Natalie Shim	Distribute Doc.#5291A to the committee members.

Table 6 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
2013FEB-03	Co-chairs	Check the possibilities about activity duplication between SEMI FPD Standards and other SDOs
2013FEB-04	Natalie Shim	Check the SEMI Standards Regulation about the duplication related to the published SEMI Standards and other SDOs

Table 7 Previous Meeting Actions Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>	<i>Status</i>
2013FEB-01	Natalie Shim	Arrange LCD SC meeting to review cycle 7 result before December 15	No meeting requested from the authors_ completed
2013FEB-02	Natalie Shim	Check PDP SC future plan to SC leader, Sekwang Park	Sekwang Park replied he wants to resign his position. _ completed
2013FEB-03	Natalie Shim	Draft Organization chart as follow members' request. The draft should be reviewed at the next committee meeting	Natalie Shim explained pros and cons of having sub-committee based organization structure and the committee discussed about restructuring with that information. _ completed

1 Welcome, Reminders, and Introductions

JongSeo Lee called the meeting to order at 14:30 PM. The SEMI meeting reminders on membership requirements, antitrust, patentable technology, and meeting guidelines were then presented and explained.

Attachment: 01, SEMI Standards Required Meeting Elements

2 Review of Previous Meeting Minutes

The committee reviewed previous meeting minutes and approved it.

Motion: Approved the previous minutes as written

By / 2nd: Don Gyou Lee (LG Display)/ Il-Ho Kim (LMS)

Discussion: None.

Vote: 5-0, Motion carried

Attachment: 02, previous meeting minutes

3 Liaison Reports

3.1 Japan FPD Metrology Committee

Natalie Shim (SEMI) gave the Japan FPD Metrology Committee liaison report. Of note:

- Leadership change
 - Yuji Yoda (Chuo Electronic) stepped down and Akira Kawaguchi (Otsuka Electronics) has been appointed as a new co-leader.
- Meeting Information
 - Last Meeting: November 2, 2012 at SEMI Japan Tokyo, Japan
 - Next Meeting: April, 2013 at SEMI Japan Tokyo, Japan

- Ballot Review Result
 - Doc.# 4913A, Revision to SEMI D31-1102, with title change from “Definition of Measurement Index (SEMU) for Luminance Mura in FPD Image Quality Inspection” to “Definition of Measurement Index (DSEMU) for Luminance Mura in FPD Image Quality Inspection” **Passed** committee review.
- Task Force Updates
 - D31 Revision task force
 - Doc.# 4913A (Revision to D31-1102, Definition of Measurement Index (SEMU) for Luminance Mura in FPD Image Quality Inspection) was passed the technical committee review and will be forwarded to Audit & Review subcommittee for procedural review.

Attachment: 03, Japan FPD Metrology Committee liaison report

3.2 Taiwan FPD Committee

Natalie Shim gave the Taiwan FPD Committee liaison report. Of note:

- No leadership change
- Meeting Information
 - Last Meeting: November 28, 2012 at ITRI, Taiwan
 - Next Meeting: February 19, 2013 at ITRI, Taiwan
- New Activity
 - Flexible task force was approved at the Taiwan FPD Committee meeting scheduled on November 28, 2012.
 - Charter: To develop standards for the performance related testing method of module, components and systems of flexible displays.
 - Scope: Will focus on the performance related testing method of module, components and systems of flexible displays. Example:
 - Terminology
 - Measuring methods, including flexibility test and optical measuring geometries
- Ballot Review Result
 - Doc. 4765A (New Standard: Test Method of FPD-based Stereoscopic Display with Passive Glasses) failed committee review and will be reworked.
 - Doc. 5291B (New Standard: Test Method of Ambient Color Gamut for FPD in Indoor Environments) failed committee review and will be reworked.
- Authorized Ballots
 - Cycle 1, 2013
 - Doc. 4765A (New Standard: Test Method of FPD-based Stereoscopic Display with Passive Glasses)
 - Cycle 2, 2013
 - Doc. 5291B (New Standard: Test Method of Ambient Color Gamut for FPD in Indoor Environments)
- Task Force Updates
 - ACG task force

- Reviewed Doc.# 5291A (New Standard: Test Method of Ambient Color Gamut for FPD in Indoor Environments) ballot result. It is failed and sent to task force for rework.
- 3D Display Gray-to-Gray Cross Talk task force
 - Reviewed Doc.# 4765 (New Standard, Test Method of FPD based Stereoscopic Display with Passive Glasses) ballot result. It is failed and sent to task force for rework.
- Touch Screen Panel task force
 - Drafting Doc.# 5293 (Test Method for Positional Accuracy of Touchscreen panel)
- e-Paper Display task force
 - Drafting Doc.# 5533 (New Standard: Test Methods for Color Properties of Electronic Paper Display)
- Flexible task force
 - Newly formed.
- **Attachment:** 04, Taiwan FPD Committee liaison report

3.3 SEMI Staff Report

Natalie Shim gave the SEMI Standards Staff Report. The key items were as follows:

- 2013 Global Calendar of Events (through July)
 - European 3D TSV Summit (January 22-23, Grenoble, France)
 - SEMICON/LED Korea 2013 (January 30-February 1, Seoul)
 - ISS Europe 2013 [Industry Strategy Symposium] (February 24-16, Milan, Italy)
 - 7th PV Fab Manager Forum (March 10-12, Berlin, Germany)
 - SEMICON/FPD/SOLARCON China (March 19-21, Shanghai)
 - SEMICON Singapore (May 7-9, Marina Bay Sands)
 - SEMICON Russia (June 5-6, Moscow)
 - Intersolar Europe (June 19-21, Munich, Germany)
 - SEMICON West (July 9-11, San Francisco, California)
- Technical Ballot Critical Dates for Korea Spring 2013 Meetings
 - Cycle 2: due February 4 / February 18 – March 20
- Standards Publication report
 - September 2012 Cycle
 - New Standards-10, Revised Standards-18, Reapproved Standards-7, Withdrawn Standards-0, Total in portfolio-860 (Includes 92 Inactive Standards).
- New Standards Ballot and Membership Systems. Key changes:
 - User interface
 - Log-in
 - One-time log-in per session to vote on ballots
 - Same log-in for SEMI Members
 - Functionality

- Retrieve and edit submitted votes for current cycle
 - Text field and attachment option for each ballot or line item
 - Integration
 - Linked to new membership application/ profile management
 - Access to other SEMI products & services
 - Total Global Program Members: 4,367
 - The largest committee by Global TC members: PV
- Revised SEMI Regulations and Procedure Guide
 - Major Items
 - Global Technical Committee structure
 - Formation and Disbandment of Global Technical Committee
 - Formation and Disbandment of Technical Committee Chapter under existing Global Technical Committee
 - Elimination of Regional Standards
 - IP Section (section 15)
 - Redefine Supplementary Materials
 - Future Tasks
 - Virtual Meetings
 - Addition of a new official material similar to an Appendix published separately with a different file format
 - Official Liaisons with other SDOs
 - Redefine Interest Categories of Technical Committee Members -- currently based on IC, include PV/FPD/MEMS
 - Inclusion of regulatory requirement in SEMI Standards / Safety Guidelines

Attachment: 05, SEMI Staff report

4 Ballot Review

Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

Failed ballots and line items were returned to the originating task forces for re-work and re-balloting.

NOTE: Committee adjudication on Cycle 7 ballots are detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. These A&R forms are available as attachments to these minutes. The attachment number for each document is provided below the summary tables.

4.1 Cycle 3 Ballots

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
4571G	New Standard, Test Method of PDP Tone and Color Reproduction	Failed , to be reballoted

Note: Doc.# 4571H was balloted at cycle 3 of 2012 but the ballot adjudication has been postponed due to schedule conflict between committee meeting and the author.

4.2 Cycle 7 Ballots

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
4313D	New Standard, Test Method of Backlight Units Reliability	Failed , to be reballoted
5379B	Revision to SEMI D36-0306, Terminology for LCD Backlight Unit	Failed , to be reballoted

Attachment: 06, A&R_4571G_PASSED
 07, A&R_4313D_FAILED
 08, A&R_5379B_FAILED

5 Subcommittee & Task Force Reports

5.1 Backlight Unit Task Force

No official report was made. Instead, two ballot authors reported their ballot results to the committee. Natalie Shim forwarded Doc.# 4313C ballot result with author's comment to the committee because Mee-ryoung Cho, the author of Doc.# 4313C, could not attend the meeting. Sang Gyou Jeon (KILT), the author of Doc.# 5379B, also reported ballot result to the committee. After reviewing them, the committee members decided to fail and send back to the task force for rework.

Motion: Approve 4313D and 5379C at Cycle 3-13
By / 2nd: Jong Ho Chong (Samsung Display)/ Don Gyou Lee (LG Display)
Discussion: None.
Vote: 6-0, Motion carried.

5.2 Tone and Color Task Force

Kyung Jin Kang (LG Electronic) reported 4571G ballot result to the committee members. He said there are some parts to modify on current document and he requested to fail Doc.# 4571G and approve Doc.# 4571H at cycle 2, 2013. The committee accepted his request as below.

Motion: Approve 4571H at Cycle 2-13
By / 2nd: Jong Ho Chong (Samsung Display)/ Don Gyou Lee (LG Display)
Discussion: None.
Vote: 6-0, Motion carried.

5.3 Optical Characteristic measurement Task Force

No update

6 Old Business

The committee continued organization re-structuring discussion from previous meeting. As requested, Natalie Shim explained pros and cons about having sub-committee based organization before the discussion start.

- There was concern about how to treat new activities which are hard to define their categories when they keep product based current structure. To form sub-committees with different criteria was considered at the beginning but eventually it was agreed that it will have same problem.
- Don-Gyou Lee supported keeping current product based structure because it is easier to organize and manage activities especially when you want to extend the activities.
- Regarding PDP Sub-committee, The committee noticed that there has been no new activity for past 3 years due to market situation. It was also agreed that any future activities are not expected. Therefore the committee finally decided to disband this sub-committee and accepted PDP Sub-committee leader's resignation. Tone and Color task force will be remained and continue its work.
- As a result, the committee will keep product based structure and task force can be formed without Sub-committee if needed. PDP Sub-committee will be disbanded and Tone and Color task force will continue its work under the committee.

7 New Business

New OLED Activity

- Jong Ho Chong (Samsung Display) and Eun Jung Lee (Samsung Display) planned to submit a SNARF which is about OLED color reproduction and perceptual contrast test method but committee could not find proper task force to conduct the activity. So the committee suggested to them to submit a TFOF along with the SNARF as follow SEMI Standards Regulation. Those documents will be submitted via GCS process in March.

8 Action Item Review

8.1 *Open Action Items*

None

8.2 *New Action Items*

Natalie Shim (SEMI) reviewed the new action items. These can be found in the New Action Items table at the beginning of these minutes.

9 Next Meeting and Adjournment

The next meeting of the Korea FPD Metrology committee is scheduled for Thursday, April 25, 2013 at SEMI Korea office, Seoul.



Respectfully submitted by:
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Minutes approved by:

JongSeo Lee (Samsung Electronics), Co-chair	<Date approved>
Il-Ho Kim (LMS), Co-chair	<Date approved>

Table 8 Index of Available Attachments #1

#	<i>Title</i>	#	<i>Title</i>
01	SEMI Standards Required Meeting Elements	05	SEMI Staff report
02	Previous meeting minutes	06	A&R_4571G_PASSED
03	Japan FPD Metrology Committee liaison report	07	A&R_4313D_FAILED
04	Taiwan FPD Committee liaison report	08	A&R_5379B_FAILED

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.