



FPD Metrology Korea TC Chapter

Meeting Summary and Minutes

June 13, 2024, 14:00 – 16:00 (KST)

TC Chapter Announcements

Next TC Chapter Meeting

Aug 13, 2024, 14:00 – 16:00 (KST)

at SEMI Korea office in Seoul. (Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Jongho Jeong (LG Display) / Kyungjin Kang (KIPO)

SEMI Staff: Natalie Shim (SEMI Korea)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Samsung Display	Kim	Su Young	LG Electronics	Ryu	Ji Bong
Samsung Display	Lee	Seungmin	SEMI Korea	Shim	Natalie
Samsung Display	Yi	Yong Woo	SEMI Korea	Kim	Kyungwon
LG Display (LGD)	Jeong	Jongho			

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
FPD Metrology Korea TC	Jongho Jeong (LG Display)	Jaehong Kim (LG Display)
	Kyungjin Kang (KIPO)	Yongwoo Yi (Samsung Display)
Picture Quality Evaluation TF	Myong young Lee (LG Electronics)	Myong young Lee (LG Electronics)
		Yongwoo Yi (Samsung Display)
Automotive Display TF	Jaehong Kim (LG Display)	Jongho Jeong (LG Display)
		Yongwoo Yi (Samsung Display)

Table 3 TC Chapter Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
Perceptual Viewing Angle TF	Disbanded
Perceptual Image Quality TF	Disbanded

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6975C	New Standard, Test Method for Response Time Evaluation of Display with Variable Refresh Rate	Failed and returned for rework

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
	Previously 6975B failed because of insufficiency of minimum required voting return rate.	

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

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 5 Activities Approved by the GCS between meetings of the TC Chapter

None

Table 6 Authorized Activities

None

Table 7 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
6975D	Cycle 6-24	Picture Quality Evaluation TF	New standard, Test Method for Response Time Evaluation of Display with Variable Refresh Rate
7154	Cycle 6-24	Picture Quality Evaluation TF	New standard, Test Method for Flicker of Flat Panel Display

Table 8 SNARF(s) Granted a One-Year Extension

None

Table 9 SNARF(s) Abolished

None

Table 10 Standard(s) to receive Inactive Status

None

Table 11 New Action Items

None

Table 12 Previous Meeting Action Items

None



1 Welcome, Reminders, and Introductions

Jongho Jeong (LG Display) called the meeting to order at 14:00 (KST). The meeting reminders on antitrust issues, intellectual property issues, and holding meeting with international attendees were reviewed. Attendees introduced themselves.

Attachment 1: 01, FPDM_Agenda_Jun13_2024.pdf,
02, Required Meeting Elements March 2024.pdf

2 Review of Previous Meeting Minutes

2.1 The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the previous meeting minutes with editorial changes.
By / 2nd: Yongwoo Yi (Samsung Display) / Ji Bong Ryu (LG Electronics)
Discussion: None
Vote: 4-0, Motion carried

Attachment 2: 03, FPDM_KR_Minutes_20230921.pdf

3 Liaison Reports

3.1 FPD Metrology Japan TC Chapter

Natalie Shim (SEMI Korea) reported for the FPD Metrology Japan TC Chapter. Of note:

3.1.1 Meeting Information

- Last Meeting: February 16, 2024 at Japan office and OVTCCM
- Next Meeting: June 21, 2024 at Japan office and OVTCCM

3.1.2 Committee Structure Changes

- FPD Metrology Maintenance task force is newly formed.
- Co-leaders: Ryoichi Watanabe (Japan Display), Akira Kawaguchi (Otsuka Electronics), Tadahiro Furukawa (Yamagata Univ)

3.1.3 Task Force Highlight

- Plan to address 5-year review documents as well as to review the proposed documents of the global FPD Metrology TC Chapter.
- The task force will submit SNARF for Revision to SEMI D31 at the next y TC Chapter meeting.

Attachment 3: 04-1, FPD Met_JA_Liaison Report_June 2024_R0.pdf

3.2 FPD Metrology Taiwan TC Chapter

Natalie Shim reported for the FPD Metrology Taiwan TC Chapter. Of note:

3.2.1 Meeting Information

- Last Meeting: February 23, 2024, OVTCCM
- Next Meeting: October 4, 2024, OVTTCM

3.2.2 Ballot Adjudication



3.2.2.1 Doc. 6632C (New Standard, Test Method of Flicker Nuisance for Wide-Visual-Field Displays) passed technical review.

3.2.2.2 Doc. 6201B (New Standard, Guide for Tone Reproduction Curves for Transparent Displays) passed technical review.

3.2.3 Authorized Ballots for Cycle 3-4 or 5, 2024

3.2.3.1 Doc. 7220 (Reapproval of SEMI D59-0519, Terminology for 3D Display)

3.2.3.2 Doc. 7221 (Reapproval of SEMI D62-0619, Test Method for Measurement of LED Light Bar for Liquid Crystal Displays)

3.2.4 Task Force Highlight

3.2.4.1 Transparent Display Task Force

3.2.4.1.1 Doc. 6201B (New Standard, Guide for Tone Reproduction Curves for Transparent Displays) is submitted to cycle 7, 2023, and passed committee review with super clean. It is in the A&R review process.

3.2.4.1.2 SNARF XXXX (Reapproval of SEMI D59-0519, Terminology for 3D Display) approved and plan to submit the ballot at cycle 3, 4, or 5.

3.2.4.1.3 The task force discussed the development schedule for Doc. 6737 (New Standard, Test Method of Binocular Image Fusion for Augmented Reality Transparent Displays). The details will be discussed at the next committee meeting.

3.2.4.2 Flexible Display Task Force

3.2.4.2.1 Doc. 6632C (New Standard, Test Method of Flicker Nuisance for Wide Visual-Field Displays) is submitted to cycle 7, 2023, and passed committee review with super clean. It is in the A&R review process.

3.2.4.2.2 SNARF XXXX (Reapproval of SEMI D62-0619, Test Method for Measurement of LED Light Bar for Liquid Crystal Displays) approved and plan to submit the ballot at cycle 3, 4, or 5.

3.2.4.3 Maintenance Task Force

3.2.4.3.1 Doc. 6960 (Revision to SEMI D57, Guide for Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection) is in the A&R review process.

3.2.4.3.2 Doc. 6961 (Line Item Revision to SEMI D58 Terminology and Test Pattern for the Color Breakup of Field Sequential Color Display) completed A&R process.

Attachment 4: 04-2, FPD Taiwan Liaison Report_20240223_R1.pdf

3.3 SEMI Staff Report

Natalie Shim gave the SEMI Staff Report. Details are in the attached report.

3.3.1 SEMI Global Calendar of Events

3.3.2 SEMI Standards Publications

3.3.3 SEMI Regulations & Procedure Manual & Online Voting System Updated

3.3.4 Use of Connect@SEMI for TF Management and Document Development Depository

Attachment 5: 05, Staff Report March 2024 v4_KR.pdf

4 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

4.1 Doc. 6975C (New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate)



- Motion: the committee found that the negative #1 of reject #1 from Akira Kawaguchi/Otsuka Electronics below is related and persuasive. The 6975C failed and sent to task force rework.
- By/2nd: Seungmin Lee (Samsung Display)/Ji Bong Ryu (LG Electronics)
- Discussion: None
- Vote: 4-0, Pass 100%, Motion carried

Attachment 6: 06, Tally_6975C_Answer_2406_v0.1.pdf

5 Subcommittee and Task Force Reports

5.1 Automotive Display Task Force

- No update

5.2 Picture Quality Evaluation Task Force

- No update

6 Old Business

6.1 The committee reviewed the new organization structure of the Korean FPD Metrology TC Chapter

6.1.1 Disband task forces below.

- Perceptual Image Quality task force
- Perceptual Viewing Angle task force

6.1.2 Leadership Changes

6.1.2.1 Jongho Jeong (LG Display) and Kyungjin Kang (KIPO) have stepped down and Jaehong Kim (LG Display) and Yongwoo Yi (Samsung Display) are newly elected as co-chairs.

6.1.2.2 Youngwoo Yi (Samsung Display) newly appointed as co-leader of the Picture Quality task force

6.1.2.3 Jaehong Kim (LG Display) has stepped down from Automotive task force leadership and Jongho Jeong (LG Display), Yongwoo Yi (Samsung Display) have been newly appointed as co-leaders.

7 New Business

None

8 Next Meeting and Adjournment

The next meeting is scheduled for Tuesday, Aug 13, 2024 at SEMI Korea office in Seoul. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 16:00.

Respectfully submitted by:

Natalie Shim

Manager, Standards

SEMI Korea



Phone: 82.2.531.7808

Email: eshim@semi.org

Minutes tentatively approved by:

Jongho Jeong (LG Display)	Yes
Kyungjin Kang (KIPO)	Yes

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01, FPDM_Agenda_Jun13_2024.pdf	04-2, FPD Taiwan Liaison Report_20240223_R1.pdf
02, Required Meeting Elements March 2024.pdf	05, Staff Report March 2024 v4_KR.pdf
03, FPDM_KR_Minutes_20230921.pdf	06, Tally_6975C_Answer_2406_v0.1.pdf
04-1, FPD Met_JA_Liaison Report_June 2024_R0.pdf	

#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 Natalie Shim at the contact information above.