



Environmental, Health and Safety Korea TC Chapter

Meeting Summary and Minutes

Korea Standards Spring Meetings

Friday, March 6, 2026

14:00 AM – 16:00 PM

Pangyo, Gyeonggi-do, Korea / OVTCCM (hybrid)

TC Chapter Announcements

Next TC Chapter Meeting

June 19, 2026, OVTCCM.

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Bruce Lim (Safe World Engineering), Dae Sick Kim (Samsung Electronics), Hyuk Hwa Kwon (SK hynix), Keun-Yong Park (SZU Korea)

SEMI Staff: Natalie Shim, Seohyeong Bae (SEMI)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Applied Materials	Kim	HongHyun	Samsung Electronics	Kwak	Taehun
<i>ASML</i>	<i>Lee</i>	<i>Tong-Keun</i>	Samsung Electronics	Kim	Dae Sik
Carl ZEISS SMT	Kim	Andrea	Samsung Electronics	Yu	Jeongah
Hanwha Semitech	Park	Jin Eon	Samsung Electronics	Lee	Kangwoo
ICR	Jeon	Phill-Jun	Samsung Electronics	Jeong	Minsik
<i>Individual</i>	<i>Yu-Chun</i>	<i>Yeh</i>	Samsung Electronics	Cha	Jiwon
KLA	Choi	Heungcheol	Samsung Electronics	Shim	Hyun Ji
KSIA	Seong	Ji Hye	<i>Samsung Electronics</i>	<i>Kim</i>	<i>A-Rim</i>
KTR	Lee	Seokho	Samsung Electronics	Shin	Ji Yun
KTR	Yang	Dae Song	Samsung Electronics	Cheon	Donghyeok
Korea Safety & Health Technology Association	Choi	Kyung Sok	Samsung Electronics	Park	Byeongwan
National Institute of Chemical Safety	Shin	Chang Hyun	SK hynix	Kwon	Hyuk Hwa
National Institute of Chemical Safety	Lee	Sun Min	SK hynix	Park	Minjung
National Institute of Chemical Safety	Yun	Sung Mi	SZU Korea	Park	Keun-Yong
Safe World Engineering	Lim	Bruce	SZU Korea	Jeong	HuiChul
Safe World Engineering	Sim	Hyo Seop	TUV Rheinland	Lee	Sanghyeup
Safe World Engineering	Choi	Jae Ho	<i>Woori Engineering</i>	<i>Kang</i>	<i>Ho-han</i>
<i>Safety Guru LLT</i>	<i>Sklar</i>	<i>Eric</i>	SEMI Korea	Shim	Natalie



SGS Malaysia Sdn. Bhd.	Chua	Qing Si	SEMI Korea	Bae	Seohyeong
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Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
EHS Korea TC Chapter	Dae Sick Kim (Samsung Electronics)	Dae Yong Rho (Samsung Electronics)
Regulatory Alignment Subcommittee	Eun Woo Park (SK hynix)	Min Jung Park (SK hynix)
Robot Safety Task Force	None (Newly Established)	Bong Hwan Kim (Samsung Electronics) Jaeho Choi (Safe World Engineering)

Table 3 TC Chapter Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None (Newly Established)	Robot Safety Task Force

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
None		

#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 Ratification Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>ISC A&R Action</i>	<i>A&R Forms</i>
None			

Note 1: **Passed** Ratification ballots will be submitted to SEMI publication for final processing.

Note 2: **Failed** Ratification ballots were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 6 Activities Approved by the GCS between meetings of the TC Chapter

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

Table 7 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

Table 8 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
None			



Table 9 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
None			

Table 10 SNARF(s) Cancelled

#	TF	Title
None		

Table 11 Standard(s) to receive Inactive Status

Standard Designation	Title
None	

Table 12 New Action Items

Item #	Assigned to	Details
20260306-1	SEMI Korea	Report Korea EHS TC Chapter Co-Chair change to NA RSC and request approval for appointing Dae Yong Roh/Samsung Electronics as successor to Dae Sik Kim/Samsung Electronics.
20260306-2	SEMI Korea	Circulate drafted charters and scopes of the Regulatory Alignment and Field-based Safety Subcommittees.
20260306-3	All Members	Review the drafts and finalize the charters and scopes at the next TCC meeting.

Table 13 Previous Meeting Action Items

Item #	Assigned to	Details
None		

1 Welcome, Reminders, and Introductions

Hyuk Hwa Kwon (SK hynix) called the meeting to order at 10:00 AM. The meeting reminders on antitrust issues, intellectual property issues, and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 1. Required Meeting Elements March 2024

2 Review of Previous Meeting Minutes

Previous meeting minutes were passed with correction

- Motion: Approve previous meeting minutes with correction
- By/2nd: Eric Sklar (Safety Guru, LLC)/ Jeongah Yu (Samsung Electronics)
- Discussion: None
- Result: 27-Y, 0-N, Motion passed

Attachment: 2. EHS TC Meeting Minutes_July 11_2025_v3

3 Liaison Reports

3.1 EHS North America TC Chapter

Eric Sklar (Safety Guru) reported for the EHS North America TC Chapter. Of note:

3.1.1 Meeting Information

- Last Meeting: February 12, 2026 (Virtual)
- Next Meeting: May 14, 2026 in conjunction with ASMC at Hilton Albany, New York

3.1.2 Leadership Changes

- Lucian Girlea (Nikon Precision) Vice-Chair and Co-Chair (pending NARSC confirmation)
- Eric Sklar (Safety Guru) Vice-Chair and Co-Chair (pending NARSC confirmation)

3.1.3 Ballot Results

- Doc.7314C (Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment) was failed and returned to TF for rework.
- Doc.7371A (Line-Item Revisions to SEMI S1-0824, Safety Guideline for Equipment Safety Labels) was passed as ballot except line item 2, addition to section 10.2 of a minimum size criterion for symbols.
- Doc.7411 (Line-Item Revision of SEMI S30-0824, Safety Guideline for Use of Energetic Materials in Semiconductor R&D and Manufacturing Processes) failed and returned to TF for rework.

3.1.4 Authorized Activities

- SNARF 7444 (Reapproval of SEMI S5-1121, Safety Guideline for Sizing and Identifying Flow Limiting Devices for Gases)
- SNARF 7445 (Line-Item Revision to SEMI S2-0724, Environmental, Health and Safety Guideline for Semiconductor Manufacturing Equipment – Revisions of Fire Protection Portion)
- SNARF 7446 (Line-Item Revision to SEMI S14-0521, Safety Guideline for Fire Risk Assessment and Mitigation for Semiconductor Manufacturing Equipment)

3.1.5 Authorized Ballots (Cycle 3 or 4 of 2026)

- Doc.7134D (Revision to SEMI S8-0218, Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment)
- Doc.7371B (Line-Item Revision to SEMI S1-0824, Safety Guideline for Equipment Safety Labels)
- Doc.7372 (Line-Item Revision to SEMI S23-1021E2, Guide for Conservation of Energy, Utilities and Materials Used by Semiconductor Manufacturing Equipment)
- Doc.7444 (Reapproval of SEMI S5-1121 - Safety Guideline for Sizing and Identifying Flow Limiting Devices for Gases)
- Doc.7445 (Line-Item Revision to SEMI S2-0724 - Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Revisions of Fire Protection Portion (§14))
- Doc.7446 (Line-Item Revision to SEMI S14-0521 - Safety Guideline for Fire Risk Assessment and Mitigation for Semiconductor Manufacturing Equipment (Fire Protection))

3.1.6 Activities Approved via GCS between Meetings

- Doc.7411A (Line-Item Revision of SEMI S30-0824 Safety Guideline for Use of Energetic Materials in Semiconductor R&D and Manufacturing Processes) authorized for cycle 3 or 4 of 2026

3.1.7 SNARFs Granted a One-Year Extension



- SNARF 7021(Line-Items Revisions of S2, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment, and S22, Safety Guideline for the Electrical Design of Semiconductor Manufacturing Equipment) extended to April 2027.

3.1.8 Please find the attached file for details of TF activities.

Attachment: 3. NA EHS TC Chapter Liaison report Feb2026v1

3.2 *EHS Japan TC Chapter*

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

3.2.1 Meeting Information

- Last Meeting: December 3, 2025 @ RISE GATE NIHONBASHI, Tokyo, Japan / OVTCCM (hybrid)
- Next Meeting: June 3, 2026 @ SEMI Japan Office / OVTCCM (hybrid)

3.2.2 Leadership changes

- Supika Mahiro (Tokyo Electron) and Kokai Aoyama (Tokyo Electron) appointed Mobile Maintenance Robot Safety TF co-leaders.

3.2.3 Committee Structure Changes

- Mobile Maintenance Robot Safety Task Force is newly formed.

3.2.4 Ballot Results

- Doc.7349A (Revision of SEMI S13-0113 (Reapproved 0819), Environmental, Health and Safety Guideline for Documents Provided to the Equipment User for Use with Manufacturing Equipment with the Title Change to Environmental, Health, and Safety Guideline for Documents Provided to the Equipment User for Use with Semiconductor Manufacturing Equipment.)

3.2.5 Please find the attached file for details of TF activities.

Attachment: 4. EHS JA TC Chapter Liaison Report_Jan 2026_R1

3.3 *EHS Taiwan TC Chapter*

Natalie Shim (SEMI Korea) reported for the EHS Taiwan TC Chapter. Of note:

3.3.1 Meeting Information

- Last Meeting: November 28, 2025 / OVTCCM (hybrid)
- Next Meeting: TBD

3.3.2 Leadership Change

- Edward His (JDI Consult) was appointed leader of the Facility and Equipment Safety Task Force.

3.3.3 Committee Structure Changes

- Equipment Safety Task Force was renamed to Facility and Equipment Safety Task Force.

3.3.4 Authorized Activities

- SNARF XXXX (New Safety Guideline, Safety Guideline for Battery Storage Systems (BESS))
- SNARF XXXX (New Safety Guideline, Safety Guideline for High-tech Factories)

3.3.5 Please find the attached file for details of TF activities.

Attachment: 5. EHS Taiwan Liaison Report_20251128_V1_ns

3.4 SEMI Staff Report

Natalie Shim (SEMI Korea) gave the SEMI Staff Report. Of note:

3.4.1.1 SEMICON Upcoming Events

- SEMICON Korea: Feb 11-13, Seoul
- SEMICON China: March 25-27, Shanghai
- SEMIEXPO: April 29-30, Detroit
- SEMICON Southeast Asia: May 5-7, Kuala Lumpur
- SEMICON Taiwan: Sept 2-4, Taipei
- SEMICON India: Sept 17-19, New Delhi
- SEMICON West: Oct 13-15, San Francisco

3.4.1.2 Critical Dates for SEMI Standards Ballots

- See <https://www.semi.org/en/Standards/Ballots>

3.4.1.3 All SEMI Standards Task Forces shall use Connected@SEMI for managing TF activities and storing documents.

3.4.1.4 Introduced Beta version of Standards virtual meeting app.

Attachment: 6. Staff_HQ Report Feb 2026 v3_ns

4 Ballot Review

None

5 Subcommittee and Task Force Reports

5.1 S2 Major Revision Liaison TF

5.1.1 S2 Related Information 20-related Discussion

5.1.1.1 TF submitted the revision item to S2 Related Information 20 to correct references to Korean regulations and coordinated with NA Manufacturing Equipment Safety Subcommittee to incorporate the updates into the S2 major revision.

5.1.2 Laser Safety-related Discussion

5.1.2.1 TF introduced a proposal to enhance laser safety by adding emission indicators for operator awareness and shared it for discussion within the NA S2 Major Revision task force.

5.2 Field-based safety subcommittee

5.2.1 Interlock Improvement Discussion

5.2.1.1 FBSC analyzed incident cases and identified limitations in current interlock system including insufficient fail-safe functions and lack of visibility of interlock information. The findings were used to propose enhancements to interlock classification and documentation for consideration in the S2 major revision via Korea S2 Major Revision Liaison task force.

5.3 Regulatory Alignment subcommittee

5.4 The subcommittee reviewed regulatory-related items and continued discussions to assess their relevance to SEMI S2.



- Attachment:** 7. S2 MRL TF_260306
8. FBSC report_Mar06_2026_ns
9. Regulatory Alignment SC_Mar06_2026_ns

6 Old Business

None

7 New Business

7.1 Robot Safety TFOF Approval

Bong Hwan Kim (Samsung Electronics) requested TFOF approval for the Robot Safety Task Force.

- Motion:** Approve the Robot Safety Task Force
By / 2nd: Dae Sik Kim (Samsung Electronics) / Min Jung Park (SK hynix)
Discussion: None
Vote: 25-Y 0-N. Motion passed.

7.2 Leadership Changes

7.2.1 Dae Sik Kim (Samsung Electronics) has stepped down as co-chair of EHS Korea TC Chapter, and Dae Yong Roh (Samsung Electronics) has been nominated as his successor. Approval will be requested from the NA RSC.

7.2.2 Eun Woo Park (SK hynix) has stepped down as a leader of Regulatory Alignment subcommittee, and Min Jung Park (SK hynix) has been appointed as her successor.

7.3 Subcommittees scope & charter Discussion

7.3.1 Eric Sklar (Safety Guru, LLC) wondered whether clearly defined charter & scope materials were available for the two subcommittees. In response, Natalie Shim shared a draft that had been prepared based on discussions from previous meetings. The draft outlines the purpose, scope and intended activities of each subcommittee, including their role in supporting the SEMI Standards Program.

7.3.2 Following discussion, it was agreed that the draft would be circulated for further review. The committee was encouraged to provide comments and feedback, and the charter & scope documents will be finalized and confirmed at the next meeting.

- Attachment:** 10. Robot Safety TFOF_v2
11. FBSC Charter & Scope_Mar06_2026
12. RASC Charter & Scope_Mar06_2026

8 Next Meeting and Adjournment

The next meeting is scheduled for Friday, June 19, 2026, with OVTCCM. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 12:00 PM.

Respectfully submitted by:

Seohyeong Bae

Coordinator



SEMI Korea

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Email: sbae@semi.org

Minutes tentatively approved by:

Bruce Lim (Safe World Engineering), Co-chair	<Date approved>
Dae Sick Kim (Samsung Electronics), Co-chair	<Date approved>
Hyuk Hwa Kwon (SK hynix), Co-chair	<Date approved>
Keun-Yong Park (SZU Korea), Co-chair	<Date approved>

Table 14 Index of Available Attachments#1

<i>Title</i>	<i>Title</i>
1. Required Meeting Elements March 2024	7. S2 MRL TF_260306
2. EHS TC Meeting Minutes_July 11_2025_v3	8. FBSC report_Mar06_2026_ns
3. NA EHS TC Chapter Liaison Report Feb2026v1	9. Regulatory Alignment SC_Mar06_2026_ns
4. EHS JA TC Chapter Liaison Report_Jan 2026_R1	10. Robot Safety TFOF_v2
5. EHS Taiwan TC Chapter Liaison Report_20251128_v1_ns	11. FBSC Charter & Scope_Mar06_2026
6. Staff_HQ Report June 2025 v4.2	12. RASC Charter & Scope_Mar06_2026

#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.