



EHS Japan TC Chapter Meeting Summary and Minutes

SEMI Standards Japan Summer Meetings 2025

Wednesday, June 25, 2025 10:00 AM – 12:45 PM JST

Room 1, SEMI Japan Office, Tokyo, Japan/ Official Virtual TC Chapter Meeting (Hybrid)

TC Chapter Announcements

Next TC Chapter Meeting

Wednesday, December 3, 2025 10:00 AM – 1:00 PM JST

SEMI Japan Office, Tokyo, Japan/ Official Virtual TC Chapter Meeting (Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants.

Co-Chairs: Supika Mashiro/ Tokyo Electron, Moray Crawford/Hatsuta Seisakusho, Akiko Tsukada/ Nuflare Technology,
SEMI Staff: Akiko Yoshida (SEMI Japan)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
AMEC	Wang	John	Safety Guru	Sklar	Eric
DAIFUKU	Suzuki	Tomoko	Samsung Electronics	Yu	Jeongah
EAGLE INDUSTRY	Sado	Daisuke	Self	Sakura	Hidetoshi
Hatsuta Seisakusho	Crawford	Moray	Shanghai Safeslab Technology	Chen	Jane
Hitachi High-Tech	Omomo	Yoshihito	Teradyne	Kim	JJ
KOKUSAI ELECTRIC	Matsuda	Mitsuhiro	Tokyo Electron	Hama	Naoya
MURATA MACHINERY	Tominaga	Tadamasa	Tokyo Electron	Mashiro	Supika
MURATA MACHINERY	Yamasaki	Kei	Ulvac Taiwan	Lin	Tony
NAURA	CAO	Clark			
Nikon Precision	Girlea	Lucian	SEMI China	Ma	Sara
NuFlare Technology	Nakazawa	Takuya	SEMI China	Yan	Hailey
NuFlare Technology	Tsukada	Akiko	SEMI Korea	Bae	Seohyeong
SCREEN Semiconductor Solutions	Nishimura	Takayuki	SEMI Korea	Shim	Natalie
SCREEN Semiconductor Solutions	Shibukawa	Jun	SEMI Japan	Koga	Nahoko
Safe World Engineering	Lim	Bruce	SEMI Japan	Yoshida	Akiko

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
None		

Table 3 TC Chapter Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
7349	Revision of SEMI S13-0113 (Reapproved 0819), ENVIRONMENTAL, HEALTH, AND SAFETY GUIDELINE FOR DOCUMENTS PROVIDED TO THE EQUIPMENT USER FOR USE WITH MANUFACTURING EQUIPMENT	Failed

#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			

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

#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>
7349	SNARF and Letter Ballot Authorization for Cycle 3, 2025 or later Cycle	S13 Revision TF	Revision of SEMI S13-0113 (Reapproved 0819), ENVIRONMENTAL, HEALTH, AND SAFETY GUIDELINE FOR DOCUMENTS PROVIDED TO THE EQUIPMENT USER FOR USE WITH MANUFACTURING EQUIPMENT - <i>Approved by GCS on 03/28/2025</i>

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>
7349A	Cycle 7, 8, or 9, 2025	S13 Revision TF	Revision of SEMI S13-0113 (Reapproved 0819), ENVIRONMENTAL, HEALTH, AND SAFETY GUIDELINE FOR DOCUMENTS PROVIDED TO THE EQUIPMENT USER FOR USE WITH MANUFACTURING EQUIPMENT

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

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
6289	S18 Revision TF	Revision to SEMI S18-0312: ENVIRONMENTAL, HEALTH AND SAFETY GUIDELINE FOR FLAMMABLE SILICON COMPOUNDS	2026/10/04

Table 10 SNARF(s) Abolished

<i>#</i>	<i>TF</i>	<i>Title</i>
None		

Table 11 Standard(s) to receive Inactive Status

<i>Standard Designation</i>	<i>Title</i>
SEMI S17-0319	SAFETY GUIDELINE FOR UNMANNED TRANSPORT VEHICLE (UTV) SYSTEMS

Table 12 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
EHS20250625-01	SEMI Staff	To request SEMI Publication to label SEMI S17-0317 being Inactive as early as feasible.
EHS20250625-02	S13 Revision TF Leader	To submit Doc.#7349A for Cycle 7, 8, or 9, 2025.
EHS20250625-03	SEMI Staff	To ask SEMI HQ to improve SVM to ensure fair access for Program Members from Mainland China.

Table 13 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
EHS20241211-01	Global Seismic Protection TF	To propose a Type 2 Editorial Changes at NA TC Chapter meeting next February, on the condition that the TF will distribute the draft of the changes and address any feedback received from the Japan TC members by the time of that NA TC Chapter meeting. →Closed
EHS20241211-02	EHS Japan TC Chapter co-chairs	To recommend to the JRSC that Akiko Tsukada (NuFlare Technology) be a co-chair of the EHS Japan TC Chapter. →Closed
EHS20241211-03	SEMI Staff	To send S13 Revision SNARF for two weeks TC members' review. →Closed
EHS20241211-03	SEMI Staff	To setup Connect@SEMI site for the S13 Revision TF. →Closed
EHS20241211-04	EHS Japan TC Chapter co-chairs and SEMI Staff	To continue to look for a potential TF co-leader to start S17 revision work. →Closed

1 Welcome, Reminders, and Introductions

Moray Crawford (Hatsuta Seisakusho) called the meeting to order at 10:00 AM JST. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01_Meeting Reminders

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes with one correction.

By / 2nd: Takayuki Nishimura (SCREEN Semiconductor Solutions)/ Hidetoshi Sakura (Self)

Discussion: None.

Vote: 10-Y 0-N. Motion passed.

Attachment: 02_EHS JA TC Minutes_20241211_R1

3 Ballot Review

NOTE 1: TC Chapter adjudication of ballots 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 file name for each balloted document is provided.

3.1 *Doc.#7349, Revision of SEMI S13-0113 (Reapproved 0819), ENVIRONMENTAL, HEALTH, AND SAFETY GUIDELINE FOR DOCUMENTS PROVIDED TO THE EQUIPMENT USER FOR USE WITH MANUFACTURING EQUIPMENT*

- **Failed** TC Chapter review and will be returned to the TF for rework.
- Supika Mashiro (Tokyo Electron) proposed to submit Doc.#7349A for Cycle 7, 8, or 9, 2025.

Motion: Authorize Document 7349A for Letter Ballot in Cycle 7, 8, or 9, 2025.

By / 2nd: Supika Mashiro (Tokyo Electron)/ Eric Sklar (Safety Guru)

Discussion: None.

Vote: 13-Y 0-N. Motion passed.

- Supika Mashiro (Tokyo Electron) reported for the S13 Revision TF. The TF meets every Friday at 7:00 AM JST to review all the negatives/ comments. If anyone wishes to attend the TF meeting at a different time, please inform the TF leader.

Attachment: 03_7349_Ballot Review

4 Liaison Reports

4.1 *Japan Regional Standards Committee (JRSC) Report*

Moray Crawford (Hatsuta Seisakusho) reported for the JRSC that the meeting was held on Thursday, April 17 and the JRSC approved Akiko Tsukada to be a co-chair of the EHS Japan TC Chapter.

In addition to the above, Akiko Yoshida (SEMI Japan) also reported that:

- Daisuke Sado (Eagle industry) was appointed by the ISC to be a co-chair of JRSC. With this, Tadahiro Furukawa (Yamagata University) stepped down from co-chair position.
- The Planning Meeting will be held on Thursday, August 28, inviting all the TF leaders as well as TC co-chairs to deepen knowledge or insights regarding standardization. The theme this year would be “Transparency in the Supply Chain and SEMI Standards.” More details will be announced as soon as they are finalized.

4.2 *Global Coordinating Subcommittee (GCS) Report*

Moray Crawford (Hatsuta Seisakusho) reported for the GCS that there had been no voting or discussion in GCS between meetings of the EHS Japan TC Chapter.

4.3 *EHS North America TC Chapter*

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

- The last meeting was held on June 5 at SEMI HQ in conjunction with NA Summer meetings, 2025 and the next meeting will be held on October 9, 2025 in Phoenix, Arizona in conjunction with SEMICON West.
- Doc.#7169, Revision of SEMI S10-0423^E, Safety Guideline For Risk Assessment And Risk Evaluation Process with change of Title to: Safety Guideline For Risk Assessment And Risk Evaluation Processes passed with editorial changes.
- Type 2 Editorial Changes to SEMI S2-0724, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment passed.
- SNARF 7371 (Line Item Revision to SEMI S1-0824), and SNARF 7372 (Line Item Revision to SEMI S23-1021^{E2}) were approved.

- Doc.#7134B (Revision to SEMI S8-0218), Doc.#7371 (Line Item Revision to SEMI S1-0824), and Doc.#7372 (Line Item Revision to SEMI S23-1021^{E2}) were authorized to be submitted for Cycle 6 or 7, 2025.
- One year extension of the project period for SNARF 6830 (Revision to SEMI S3-1211 (Reapproved 1017)^E), SNARF 6888 (Revision of SEMI S12-0211^E), and SNARF 6942 (Line-Item Revision to SEMI S2) were approved.
- The S2 Major Revision TF will send an information ballot out for work validation and to gather concerns.
- The Ergonomics TF continue to meet every Friday to finalize the ballot and submit it for voting in Cycle 7, 2025.
- The S23 Revision Global TF is drafting Doc.#7135 (Revision of SEMI S23-1021e, Guide for Conservation of Energy, Utilities, and Materials Used by Semiconductor Manufacturing Equipment) while the ERP TF is drafting Doc.#7372 aiming for informative (rather than normative) content (for test conditions for pump comparison) that can be taken into S23 as an RI.
- A concern was raised in MESSC during the Dec. 2021 Standards meetings that old S2 (S2-0715) Seismic RI shows a step in the derivation of the horizontal force factor that is not present in the current RI. The step changes the output of the general force equation from $1.32 W_P$ to $0.94 W_P$. $0.94 W_P$ is the value in use now (and then) for the minimum anticipated horizontal force acting on the CG of the equipment. Considering this, the Global Seismic Protection TF proposed to add a text to RI. Proposal to make Type 2 Editorial Changes was approved by the NA TC Chapter in February, 2025 and it is now pending publication.

Attachment: 04_NA EHS TC Chapter Liaison report June2025v2_kn_es25jun24a

4.4 EHS Taiwan TC Chapter

Akiko Yoshida (SEMI Japan) reported that there had been no updates from the previous meeting in 2022. Since the Taiwan TC Chapter meeting has not been held for more than two years, Akiko Yoshida checked with SEMI Taiwan staff and found that the Taiwan TC Chapter co-chairs and SEMI Taiwan staff would discuss and decide the course of action soon.

4.5 EHS Korea TC Chapter Formation Group (CFG)

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

- The Korea TC Chapter Formation Group (CFG) was established a year ago and has been active since. It proposed the formation of the EHS Korea TC Chapter at the North America Regional Standards Committee (NARSC) meeting in early June, and this proposal was approved.
- The kickoff meeting will be held on July 11, 2025 at SEMI Korea office and online (hybrid).
- There are four TC co-chairs including Bruce Lim (Safe-world Engineering), Daesick Kim (Samsung Electronics), Keun-Yong Park (SZU Korea), and Hyukhwa Kwon (SK hynix).
- In the proposed organization structure to the NARSC, there are four potential TFs: Field-Based Safety TF, Regulatory Alignment TF, S2 Major revision Liaison TF, and Terminology Harmonization TF. The TC will first focus of forming the Field-Based Safety TF and the S2 Major Revision Liaison TF.
- It is expected that Korea's participation would strengthen ties with global SEMI networks to further advance SEMI EHS Guidelines.

Supika Mashiro (Tokyo Electron) welcomed the establishment of the Korea TC Chapter and noted that Technical Committee is global in nature and there is no concept of membership belonging to any regional TC Chapter, which means that any program members can attend any TC Chapter meetings and vote. She advised to change the title of slide 6 "Membership" to "Active members in Korea TC Chapter."

Attachment: 05_Liaison report_KR_EHS_June2025_v2

5 SEMI Staff Report

Akiko Yoshida (SEMI Japan) gave the SEMI Staff Report. Of note:

- The second Global Standards Summit (GSS) will be held at SEMICON West 2025 in Phoenix, Arizona to identify standards-critical areas and work towards an industry standardization strategy for the next 3- and 7-year time horizons. In GSS 2025, continued discussion on standards critical topics covered in GSS 2024 is expected with additional new topics.
- SEMI Standards Style Manual Rev. 10 is being reviewed by the ISC Regulations SC. It will be published soon.
- SEMI University Japan Store launched in June, 2024, which provides SEMI Japan original e-learning courses including SEMI Standards tutorials with Japanese audio or subtitles.

Attachment: 06_Staff Report June 2025 v5

6 Subcommittee and Task Force Reports

6.1 Global Seismic Protection Task Force

Supika Mashiro (Tokyo Electron) reported that for the Global Seismic Protection TF. As presented in the liaison report from the NA TC Chapter, Type 2 Editorial Changes to SEMI S2 were successfully approved. With this task complete, the TF would like to become dormant status.

6.2 Global S23 Revision Task Force

Although no report was submitted by the Global S23 Revision TF, Akiko Yoshida (SEMI Japan) reported that one of the TF co-leaders, George Hoshi (Tokyo Electron), intends to step down his leadership position due to a change in his work responsibilities. Supika Mashiro (Tokyo Electron) said that as the TF is a global TF, the resignation process is different from that of a local TF, his resignation cannot be approved by the Japan TC Chapter. She advised Akiko Yoshida (SEMI Japan) to coordinate with George Hoshi on upcoming actions to take.

6.3 S18 Revision Task Force

Supika Mashiro (Tokyo Electron) reported for the S18 Revision TF that there had been no activities from the previous TC Chapter meeting. She said that the TF would resume the activities as soon as S13 revision work is completed. She also requested to extend the S18 Revision SNARF.

Motion: Approve a one year extension of the project period for SNARF 6289.

By / 2nd: Supika Mashiro (Tokyo Electron)/ Eric Sklar (Safety Guru)

Discussion: None.

Vote: 13-Y 0-N. Motion passed.

The expiration date for SNARF 6289 will be October 4, 2026.

6.4 S2 Major Revision Liaison TF Task Force

Supika Mashiro (Tokyo Electron) reported for the S23 Major Revision Liaison TF that she had been attending the S2 Major Revision TF meetings as a leader of the Liaison TF. Although she recommended the members from Japan to attend the primary TF meetings, she will have a Liaison TF meeting in Japanese as soon as she will be available.

7 Old Business

7.1 Project Period Review

No other SNARFs will be expiring soon.

7.2 5-year Review

No document is subject for 5-year review except for SEMI S17-0319, Safety Guideline for Unmanned Transport Vehicle (UTV) Systems, which failed the TC Chapter review at the TC Chapter meeting in September, 2024. After failure of reapproving current SEMI S17, the TC Chapter tried to identify the expected TF participants and leader. However, unfortunately, nobody intended to take the TF leadership position, therefore, it is difficult to start S17 revision activities.

- Motion:** Request SEMI Publication to label SEMI 17-09317 being Inactive as early as feasible.
- By / 2nd:** Supika Mashiro (Tokyo Electron)/ Tadamasa Tominaga (Murata Machinery)
- Discussion:** Eric Sklar: The motion seems to be no problem but should be unnecessary. The problem is that SEMI staff has not enough resources to make documents Inactive automatically.
- Vote:** 12-Y 0-N. Motion passed.

8 New Business

None.

9 Action Item Review

9.1 Open Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
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9.2 New Action Items

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EHS20250625-03	SEMI Staff	To ask SEMI HQ to improve SVM to ensure fair access for Program Members from Mainland China.

10 Next Meeting and Adjournment

The next meeting is scheduled for Wednesday, December 3, 2025 10:00 AM – 1:00 PM JST at SEMI Japan Office, Tokyo, Japan and via Official Virtual TC Chapter Meeting (Hybrid). See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [12:45].



Respectfully submitted by:

Akiko Yoshida

Standards & EHS

SEMI Japan

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Minutes tentatively approved by:

Supika Mashiro (Tokyo Electron), Co-chair	July 9, 2025
Moray Crawford (Hatsuta Seisakusho), Co-chair	July 15, 2025
Akiko Tsukada (NuFlare Technology), Co-chair	July 9, 2025

Table 14 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01_Meeting Reminders	04_NA EHS TC Chapter Liaison report June2025v2_kn_es25jun24a
02_EHS JA TC Minutes_20241211_R1	05_Liaison report_KR_EHS_June2025_v2
03_7349_Ballot Review	06_Staff Report June 2025 v5

#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 Akiko Yoshida at the contact information above.