



# EHS Japan TC Chapter Meeting Summary and Minutes

In conjunction with SEMICON Japan 2024

Wednesday, December 11, 2024 9:00 AM – 12:00 PM JST

Room 701, Int'l Conference Tower, Tokyo Big Sight, Tokyo, Japan/ Official Virtual TC Chapter Meeting (Hybrid)

## TC Chapter Announcements

*Next TC Chapter Meeting*

Wednesday, June 25, 2025 10:00 AM – 12:00 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, Hidetoshi Sakura/ Nuflare Technology, Moray Crawford/Hatsuta Seisakusho

**SEMI Staff:** Akiko Yoshida (SEMI Japan)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Hatsuta Seisakusho	Crawford	Moray	<i>Safety Guru</i>	<i>Sklar</i>	<i>Eric</i>
Hitachi High-Tech	Omomo	Yoshihito	<i>Tokyo Electron</i>	<i>Hayashi</i>	<i>Haruna</i>
MURATA MACHINERY	Adachi	Naruto	<i>Tokyo Electron</i>	<i>Hoshi</i>	<i>George</i>
MURATA MACHINERY	Tominaga	Tadamasa	Tokyo Electron	Machida	Ryoryo
NuFlare Technology	Sakura	Hidetoshi	Tokyo Electron	Mashiro	Supika
<i>NuFlare Technology</i>	<i>Kakiuchi</i>	<i>Michiko</i>	<i>TÜV SÜD Product Service</i>	<i>Salmon</i>	<i>Jens</i>
NuFlare Technology	Tsukada	Akiko	SEMI HQ	Nguyen	Kevin
SCREEN Semiconductor Solutions	Nishimura	Takayuki	SEMI Japan	Sato	Hiroshi
SCREEN Semiconductor Solutions	Shibukawa	Jun	SEMI Japan	Yoshida	Akiko

## Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
EHS Japan TC Chapter	Hidetoshi Sakura (NuFlare Technology)	Akiko Tsukada (NuFlare Technology)
S13 Revision TF	N/A	Supika Mashiro (Tokyo Electron)

## Table 3 TC Chapter Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
N/A	S13 Revision TF

## 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&amp;R Action</i>	<i>A&amp;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**

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

**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>
None	

**Table 12 New 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.

**Table 12 New Action Items**

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.
EHS20241211-03	SEMI Staff	To send S13 Revision SNARF for two weeks TC members' review.
EHS20241211-03	SEMI Staff	To setup Connect@SEMI site for the S13 Revision TF.
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.

**Table 13 Previous Meeting Action Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
EHS20220908-02	JA & NA sides of Global Seismic TF leaders	To discuss the first Global TF meeting with NA Leader, Lauren Crane (Lam Research) →Closed
EHS20240911-01	EHS Japan TC Chapter Co-chairs	To consider about S13 Revision Task Force prospective leader to propose TFOF at the next meeting. →Closed
EHS20240911-02	EHS Japan TC Chapter Co-chairs	To contact a AMHS supplier of possibility of commencing S17 revision work. →Closed

## 1 Welcome, Reminders, and Introductions

Hidetoshi Sakura (NuFlare Technology) called the meeting to order at 9:00 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 as written.

**By / 2<sup>nd</sup>:** Supika Mashiro (Tokyo Electron)/ Takayuki Nishimura (SCREEN Semiconductor Solutions)

**Discussion:** None.

**Vote:** 5-Y 0-N. Motion passed.

**Attachment:** 02\_JA EHS MIns 0911 R2

## 3 Liaison Reports

### 3.1 Japan Regional Standards Committee (JRSC) Report

Hidetoshi Sakura (NuFlare Technology) reported for the JRSC that there had been no updates related to EHS TC from the previous meeting held on December 9, 2024.

### 3.2 Global Coordinating Subcommittee (GCS) Report

Hidetoshi Sakura (NuFlare Technology) reported for the GCS that there had been no voting or discussion in GCS between meetings of the EHS Japan TC Chapter.

### 3.3 EHS North America TC Chapter

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

- The last meeting was held on November 7 at SEMI HQ in conjunction with NA Fall meetings, 2024 and the next meeting will be held on February 27, 2025 at SEMI HQ in conjunction with NA Winter meetings.
- Dishayne Garcia (Intel) became a new co-leader of the Ergonomic TF.
- Publication Change Request (PCR) for Type 2 Editorial Changes to SEMI S1-0824 was approved at the last TC meeting.
- Doc.#6907 (Revision to SEMI S7-0515), Doc.#7134A (Revision to SEMI S8-0218), and Doc.#7169 (Revision to SEMI S10-0423) were authorized to be submitted for Cycle 9-2024, Cycle 1, or Cycle 2, 2025.
- One year extension of the project period for SNARF 6907, Revision to SEMI S7-0515, was approved.
- The S2 Major Revision TF will send an information ballot out for work validation and to gather concerns.
- 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 the document 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 is trying to add a text to RI. Proposal will be made either by a TC vote or by issuing ballot for Cycle 1, 2025.

**Attachment:** 03\_NA EHS TC Chapter Liaison report Dec2024

### 3.4 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, Supika Mashiro (Tokyo Electron) advised SEMI staff to check the SEMI Standards Regulations to see the action to be taken.

### 3.5 Korea Chapter Formation Group (CFG)

Akiko Yoshida (SEMI Japan) reported for the Korea CFG. Of note:

- There are two sub-groups under the Korea CFG; Safety Guidelines Review and Development Sub-group and Translation Review Sub-group, and each Sub-groups hold monthly meetings.
- The Safety Guidelines Review and Development SG is conducting a chapter-by-chapter review to deepen understanding, and they recently began discussion on potential standardization topics.
- The Translation Review SG focused on reviewing terminology in Korean S2-1018 version. They expected to start review of S2-0724 version in December 2024.

**Attachment:** 04\_Liaison report\_Korea\_EHS\_Nov2024

## 4 SEMI Staff Report

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

- SEMICON West 2025 will be held in Phoenix, Arizona in October. The venue of SEMICON West will alternate between Phoenix and San Francisco every October thereafter.



- The “Global Standards Summit 2024 - Innovating Tomorrow: Standards for Future Factories” will be held on Thursday, December 12, 2024 10:30 AM to 4:30 PM at Tokyo Big Sight, Conference Tower, Room 606 in conjunction with SEMICON Japan 2024, welcoming anyone interested. Its session topics cover Smart Manufacturing for Future Factories, Packaging Architectures & Materials, Environmental Sustainability. This inaugural Summit aims to identify standards-critical areas and work towards an industry standardization strategy for the next 3- and 7-year time horizons.
- SEMI Standards Friendship Party & Award Ceremony will be held on Thursday, December 12, 2024 5:00 PM – 7:00 PM at Room 102, Int’l Conference Tower, Tokyo Big Sight. All are invited.
- Procedure Manual is updated on September 27. The update includes clarification of § 6.4.5.10 for discharging of a TF as well as new ¶ 6.4.5.11 Designation of a TF as Dormant.
- TFs have until 02/20/24 to implement use of Connect@SEMI (<https://connect.semi.org>) for TF management and document development depository. Once TFs have implemented use of Connect@SEMI, they shall use it to: maintain the TF member roster up to date, share the working drafts in PDF, and distribute the Draft Document at least one week before ballot submission to SEMI. Training materials for TF leaders and members (users) are available on the SEMI website.
- SEMIViews 4.0 is released in August with more useful functions and upgraded user interfaces.

**Attachment:** 05\_Staff Report November 2024 v4\_ay

## 5 Ballot Review

None.

## 6 Subcommittee and Task Force Reports

### 6.1 Global Seismic Protection Task Force

Supika Mashiro (Tokyo Electron) reported that for the TF. Of note:

- The TF is updating the TF Roaster. If there is anyone interested in the TF activities, contact either of TF co-leaders, Supika Mashiro (Tokyo Electron) or Lauren Crane (Lam Research).
- Based on the concerns raised by the MESSC in 2021, the TF had several discussions since NA Fall Meetings regarding RI-4 of SEMI S2, which was developed based on 1997 Uniform Building Code (UBC).
- The TF agreed to make changes to RI-4, which are considered as Type 2 Editorial Changes, to explain why the current force values have been used in S2 assessment.
- The TF wants to get approval from both the Japan TC Chapter on December 11 and the NA TC Chapter in February for making those editorial changes.

However, as the members of the Japan TC Chapter have not reviewed the proposed text in advance and cannot make an informed decision, Supika Mashiro proposed to make Type 2 Editorial Changes to RI-4 of SEMI S2 on the condition that the TF will distribute the draft of the changes and address any feedback received from the Japan TC member by the time of the said NA TC Chapter meeting.

**Motion:** The Japan TC Chapter to agree on TF proposal of a Type 2 Editorial Changes at the 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 Chapter member by the time of that NA TC Chapter meeting.

**By / 2<sup>nd</sup>:** Supika Mashiro (Tokyo Electron)/ Takayuki Nishimura (SCREEN Semiconductor Solutions)

**Discussion:** None.

**Vote:** 6-Y 0-N. Motion passed.

**Attachment:** 06\_2024 S2-Seismic Global TF REPORT to JATCC\_20241211 LC1

## 6.2 S23 Revision Global Task Force

George Hoshi (Tokyo Electron) reported for the TF. Of note:

- The TF is revising RI-5 “Guidance on Instrumentation and Efficiency Improvement” of SEMI S23, but the process has not been completed yet due to slow work regarding the test condition for pumps done by the ERP TF.
- As supplemental information, George Hoshi introduced overview of SEMI S23 with a recorded presentation to Semiconductor Assembly Test Automation and Standardization Research Association (SATAS) and held Q&A session on October 29, 2024.
- The TF was also asked to give a lecture on SEMI S23 to SEMI Taiwan, but it was cancelled.

**Attachment:** 07\_TF Report for EHS Meetings S23 20241211 George Hoshi

## 6.3 S18 Revision Task Force

Supika Mashiro (Tokyo Electron) reported for the TF that the TF had tried to hold a meeting after the last Technical Committee meeting, but had been unable to do so, and that the TF would hold a meeting in coming January or February.

## 6.4 S2 Major Revision Liaison TF Task Force

Supika Mashiro (Tokyo Electron) reported for the Task Force that she had been attending the S2 Major Revision TF meetings as a leader of the Liaison TF and that S2 revision work continues. She asked the TC members whether it would be better to 1) hold a TF meeting in coming January or February to share the latest information and give input to the primary TF, or 2) hold a Liaison TF meeting when the draft of the information ballot takes shape and give any feedback to the primary TF at that time. As many of the Japan TC members preferred 2), she said she would do so.

# 7 Old Business

## 7.1 Project Period Review

No SNARF will be expiring soon.

## 7.2 5-year Review

No document is subject for 5-year review except for SEMI S13-0113 (Reapproved 0819) and SEMI S17-0319, which failed the TC Chapter review at the previous TC Chapter meeting.

# 8 New Business

## 8.1 Leadership Change

Hidetoshi Sakura (NuFlare Technology) said that he would step down from a TC co-chair position as he is retiring from the company and that he would propose Akiko Tsukada (NuFlare Technology) to be a new co-chair.

**Motion:** Propose Akiko Tsukada (NuFlare Technology) to be a co-chair of the EHS Japan TC Chapter.

**By / 2<sup>nd</sup>:** Moray Crawford (Hatsuta Seisakusho)/ Takayuki Nishimura (SCREEN Semiconductor Solutions)

**Discussion:** None.

**Vote:** 6-Y 0-N. Motion passed.

Based on the above approval, a recommendation is made to the JRSC to appoint Akiko Tsukada as a co-chair of the EHS Japan TC Chapter.

*Staff Note: The co-chairs are appointed by the responsible RSC per Regulations 5.7.5.*

## 8.2 Request to Form S13 Revision Task Force

Supika Mashiro (Tokyo Electron) said that SEMI S13 is necessary to be updated in order to maintain its current status, as reapproval ballot of SEMI S13 did not pass the TC Chapter review at the previous TC Chapter meeting. Then, she proposed to form the S13 Revision TF to make necessary updates to SEMI S13.

- Motion:** Approve the TFOF for S13 Revision TF.  
**By / 2<sup>nd</sup>:** Supika Mashiro (Tokyo Electron)/ Moray Crawford (Hatsuta Seisakusho)  
**Discussion:** None.  
**Vote:** 7-Y 0-N. Motion passed.

Supika Mashiro also shared the draft of the proposed SNARF for S13 revision and the TC reviewed it. She explained that it would be a major revision as the work will include rewriting of the Purpose section, which requires TC members' two weeks review before approval. As there are no corrections or comments, the draft SNARF will be sent out for TC members' two weeks review for feedback.

**Attachment:** 08\_TFOF\_S13 Revision TF\_20241211

**Attachment:** 09\_SNARF\_S13 Revision\_20241211

## 9 Action Item Review

### 9.1 Open Action Items

Item #	Assigned to	Details
EHS20220908-02	JA & NA sides of Global Seismic TF leaders	To discuss the first Global TF meeting with NA Leader, Lauren Crane (Lam Research). →Closed
EHS20240911-01	EHS Japan TC Chapter Co-chairs	To consider about S13 Revision Task Force prospective leader to propose TFOF at the next meeting. →Closed
EHS20240911-02	EHS Japan TC Chapter Co-chairs	To contact a AMHS supplier of possibility of commencing S17 revision work. →Closed

### 9.2 New Action Items

Item #	Assigned to	Details
EHS20241211-01	S2 Seismic Global 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.
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.
EHS20241211-03	SEMI Staff	To send S13 Revision SNARF for two weeks TC member review.
EHS20241211-03	SEMI Staff	To setup Connect@SEMI site for the S13 Revision TF.
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.

## 10 Next Meeting and Adjournment

The next meeting is scheduled for Wednesday, June 25, 2025 AM – 12:00 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: [12:00].

Respectfully submitted by:

Akiko Yoshida

Standards & EHS

SEMI Japan

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Minutes tentatively approved by:

Supika Mashiro (Tokyo Electron), Co-chair	December 24, 2024
Hidetoshi Sakura (NuFlare Technology), Co-chair	December 24, 2024
Moray Crawford (Hatsuta Seisakusho), Co-chair	December 27, 2024

**Table 14 Index of Available Attachments<sup>#1</sup>**

<i>Title</i>	<i>Title</i>
01_Meeting Reminders	06_2024 S2-Seismic Global TF REPORT to JATCC_20241211 LC1
02_JA EHS MIns 0911 R2	07_TF Report for EHS Meetings S23 20241211 George Hoshi
03_NA EHS TC Chapter Liaison report Dec2024	08_TFOF_S13 Revision TF_20241211
04_Liaison report_Korea_EHS_Nov2024	09_SNARF_S13 Revision_20241211
05_Staff Report November 2024 v4_ay	

<sup>#1</sup> 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](http://www.semi.org). For additional information or to obtain individual attachments, please contact Akiko Yoshida at the contact information above.