



# Gases and Facilities Japan Joint TC Chapter

## Meeting Summary and Minutes

Japan Spring Meetings 2025  
Friday, April 25, 2025 2:00 PM – 4:00 PM JST  
SEMI Japan Office, Tokyo, Japan/ OVTCCM (Hybrid)

### TC Chapter Announcements

*Next TC Chapter Meeting*

Friday, November 28, 2025 10:00 AM – 1:00 PM JST  
SEMI Japan Office, Tokyo, Japan/ OVTCCM (Hybrid)

### Table 1 Meeting Attendees

*Italics indicate virtual participants.*

**Gases Japan TC Chapter Co-Chairs:** Hiromichi Enami (iZOOM), Isao Suzuki (Consultant), Masafumi Kitano (Fujikin)

**Facilities Japan TC Chapter Co-Chairs:** Hiromichi Enami (iZOOM), Isao Suzuki (Consultant), Masafumi Kitano (Fujikin)

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

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Consultant	Suzuki	Isao	NISSAN TANAKA	Takamisawa	Kazuhiko
<i>Daido Steel</i>	<i>Sakurai</i>	<i>Takashi</i>	Tokyo Electron	Hayashi	Haruna
<i>i-ZOOM</i>	<i>Enami</i>	<i>Hiromichi</i>	Tokyo Electron	Mashiro	Supika
<i>HORIBA STEC</i>	<i>Okuyama</i>	<i>Takahiro</i>	<i>SCREEN Semiconductor Solutions</i>	<i>Nishimura</i>	<i>Takayuki</i>
<i>KOKUSAI ELECTRIC</i>	<i>Matsuda</i>	<i>Mitsuhiro</i>	<i>Yamashin Industry</i>	<i>Ninomaru</i>	<i>Yoshihiro</i>
Fujikin	Kitano	Masafumi			
MARUICHI STAINLESS TUBE	Nagao	Mamoru	SEMI Japan	Koga	Nahoko
Nippon Steel Stainless Steel Pipe	Miyahara	Osamu	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>
7297	Revision to SEMI E137-0705 (Reapproved 0118), GUIDE FOR FINAL ASSEMBLY, PACKAGING, TRANSPORTATION, UNPACKING, AND RELOCATION OF SEMICONDUCTOR MANUFACTURING EQUIPMENT	<b>Failed</b>

#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			

#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>
None			

**Table 7 Authorized Activities**

Listing of all revised or new SNARF(s) and TFOF(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>
7297A	Cycle 7 or 8, 2025	E137 Revision TF	Revision to E137-0705 (Reapproved 0118), Guide for Final Assembly, Packaging, Transportation, Unpacking, and Relocation of Semiconductor Manufacturing Equipment

**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>
G+F_20250425-01	E137 Revision TF	To submit Doc.#7297A, Revision to E137-0705 (Reapproved 0118), Guide for Final Assembly, Packaging, Transportation, Unpacking, and Relocation of Semiconductor Manufacturing Equipment for Cycle 7 or 8, 2025.
G+F_20250425-02	5-year Review TF	To propose SNARF for Line Item Revision to SEMI F44-0325, Specification for Machined Stainless Steel Weld Fittings.

**Table 13 Previous Meeting Action Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
G+F_20241024-01	SEMI Staff	To submit the results of Doc.#7205A and 7206A ballot review to the ISC A&R for procedural review. →Closed
G+F_20241024-02	5-year Review TF	To prepare PCR to make an editorial change to SEMI F44. (Refer to New Business section.) →Closed
G+F_20241024-03	E137 Revision TF	To submit Doc.#7292, Revision to E137-0705 (Reapproved 0118), Guide for Final Assembly, Packaging, Transportation, Unpacking, and Relocation of Semiconductor Manufacturing Equipment for Cycle 2, 2025. →Closed

## 1 Welcome, Reminders, and Introductions

Masafumi Kitano (Fujikin) called the meeting to order at 2:00 PM JST. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

**Attachment:** 01\_Required Meeting Elements March 2024\_J

## 2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting. One error was pointed out by Akiko Yoshida (SEMI Japan).

**Motion:** Approve the minutes with one correction.

**By / 2<sup>nd</sup>:** Isao Suzuki (Consultant)/ Kazuhiko Takamisawa (NISSAN TANAKA)

**Discussion:** None.

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

**Attachment:** 02\_G+F Japan TC\_Minutes\_20241024\_R2

## 3 Liaison Reports

### 3.1 Japan Regional Standards Committee (JRSC)

Masafumi Kitano (Fujikin) reported that the followings were shared from the Gases and Facilities Japan TC Chapter with the JRSC at its April 17 meeting.

- Line Item Revision Ballots for SEMI F44 and F45 passed at the previous Gases and Facilities Japan Joint TC Chapter meeting and they were both published as F44-0325 and F45-0325 respectively. Editorial Change for will be proposed to the newly published SEMI F44.
- E137 Revision Ballot will be failed for further work by the TF.

Akiko Yoshida (SEMI Japan) supplemented that other topics that were relevant to the Gases and Facilities Japan Joint TC Chapter were:

- The ISC Regulations SC recommended to postpone enforcement of implementation of use of Connect@SEMI by all the TFs until next Regs/ PM revision (which is currently aimed to become effective by SEMICON West in October).
- The Planning Meeting will be held on Thursday, August 28, inviting all the TF leaders as well as TC co-chairs to deepen knowledge related to standardization. More details will be provided as soon as they are finalized.

### 3.2 Global Coordinating Subcommittee (GCS)

Akiko Yoshida (SEMI Japan) reported for the GCS of the global Facilities TC and global Gases TC. Although there were no proposals or issues raised by the Japan TC Chapters, the GCS approved the followings:

- SNARF #7328, Revision to SEMI F69-1213E, Test Method for Transport and Shock Testing of Gas Delivery Systems was approved and its letter ballot was authorized to be submitted for Cycle 1-2025 - *Approved 01/07/2025 (proposed by the Facilities NA TC Chapter).*
- SNARF #7325, Revision to SEMI F28-1103 (Reapproved 0815), Test Method for Measuring Particle Generation from Process Panels was approved and its letter ballot was authorized to be submitted for Cycle 1-2025 - *Approved 01/07/2025 (proposed by the Facilities NA TC Chapter).*
- SNARF #7326, Revision to SEMI F43-0308 (Reapproved 0613), Test Method for Determination of Particle Contribution by Point-of-Use Gas Purifiers and Gas Filters was approved and its letter ballot was authorized to be submitted for Cycle 1-2025 - *Approved 01/07/2025 (proposed by the Facilities NA TC Chapter).*
- SNARF #7327, Line-Item Revision to SEMI E56-0317, Test Method for Determining Accuracy, Linearity, Repeatability, Short-Term Reproducibility, Hysteresis, and Deadband of Thermal Mass Flow Controllers was approved and its letter ballot was authorized to be submitted for Cycle 1-2025 - *Approved 01/07/2025 (proposed by the Facilities NA TC Chapter).*
- SNARF #7350, Reapproval of SEMI F51-0917, Guide for Elastometric Sealing Technology was approved and its letter ballot was authorized to be submitted for Cycle 4-2025 - *Approved 04/09/2025 (proposed by the Gases TC Chapter).*

### 3.3 Gases and Liquid Chemicals Europe Joint TC Chapter

Akiko Yoshida (SEMI Japan) reported for the Gases and Liquid Chemicals Europe Joint TC Chapter. Of notes:

- The last meeting was held on November 13, 2024 at SEMICON Europa 2024 and the next meeting will held during SEMICON Europa 2025.
- All TFs are not active at this time and they will discuss at the next meeting for revitalization plans.

**Attachment:** 03\_EU Gases & Liquid Chemicals Liaison Report Nov2024 v1

### 3.4 Facilities and Gases North America Joint TC Chapter

Akiko Yoshida (SEMI Japan) reported for the Facilities and Gases North America Joint TC Chapter. Of notes:

- The last meeting was held on February 25, 2025 at SEMI HQ and the next meeting will held on June 3, 2025 at SEMI HQ.
- Chair of the Facilities NA TC Chapter changed from Steve Lewis (Gilbane Building) to Michael Potts (Arcadis).
- Approved the revised TFOF for Building Information Modeling (BIM) for Semiconductor Capital Equipment TF to Manufacturing Equipment Installation TF and updates to the charter and scope.
- Action needed to either send to Inactive Status or issue new SNARF for below standards documents:
  - SEMI E51, Guide for Typical Facilities Services and Termination Matrix
  - SEMI E76, Guide for 300 mm Process Equipment Points of Connection to Facility Services
  - SEMI E6, Guide for Semiconductor Equipment Installation Documentation
- Voltage Sag Immunity TF meetings have been held for ongoing F47 revision activities.
- Reapproval ballot for F51 was submitted for Cycle 5-2025.
- There are a number of documents under the Gases NA TC Chapter that are subject to a 5-year review but overdue.



Supika Mashiro (Tokyo Electron) raised concerns that documents used by the Voltage Sag Immunity TF are not shared on Connect@SEMI site. Akiko Yoshida (SEMI Japan) will contact SEMI NA staff to follow up this issue.

**Attachment:** 04\_NA F&G Liaison Report Feb2025 v1

### 3.5 Facilities Korea TC Chapter

Akiko Yoshida (SEMI Japan) reported for the Facilities Korea TC Chapter that the next meeting would be held on May 28, 2025 and there had been no updates from the previous meeting.

## 4 SEMI Staff Report

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

- 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.
- By Feb 2025, all Standards Task Forces shall use Connect@SEMI to host documents that are currently in development. However, the ISC Regulations SC recommended to postpone enforcement of implementation until next Regs/ PM revision (which is currently aimed to become effective by NA Summer meeting in June). The Regs SC is working with SEMI to update both Connect@SEMI and rules so that they are aligned each other.

**Attachment:** 05\_Staff Report Feb 2025 v2\_ay

## 5 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.

5.1 *Doc.#7297, Revision to SEMI E137-0705 (Reapproved 0118)E, GUIDE FOR FINAL ASSEMBLY, PACKAGING, TRANSPORTATION, UNPACKING, AND RELOCATION OF SEMICONDUCTOR MANUFACTURING EQUIPMENT*

- **Failed** TC Chapter review and will be returned to the TF for rework.

Haruna Hayashi (Tokyo Electron) proposed to submit Doc.#7297A for Cycle 7 or 8, 2025.

**Motion:** Authorize Document 7297A for Letter Ballot in Cycle 7 or 8, 2025.

**By / 2<sup>nd</sup>:** Haruna Hayashi (Tokyo Electron)/ Mitsuhiro Matsuda (KOKUSAI ELECTRIC)

**Discussion:** None.

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

**Attachment:** 06\_7297\_Ballot Review

## 6 Task Force Reports

### 6.1 Gases Japan TC Chapter

#### 6.1.1 5-year Review Task Force

Masafumi Kitano (Fujikin) reported that there have been no activities. Due to the prolonged period of inactivity, he proposed designating the TF as “dormant,” in accordance with Procedure Manual section 6.4.5.11. He intends to restart TF when necessary activities arise.



**Motion:** Designate the 5-year Review TF under the Gases Japan TC Chapter as dormant.  
**By / 2<sup>nd</sup>:** Isao Suzuki (Consultant)/ Kazuhiko Takamisawa (NISSAN TANAKA)  
**Discussion:** None.  
**Vote:** 10-Y 0-N. Motion passed.

## 6.2 *Facilities Japan TC Chapter*

### 6.2.1 *F1 Revision Task Force*

Masafumi Kitano (Fujikin) reported that there have been no activities.

### 6.2.2 *E137 Revision Task Force*

Haruna Hayashi (Tokyo Electron) reported for the E137 Revision TF. The TF submitted Doc.#7297, Revision to E137-0705 (Reapproved 0118), Guide for Final Assembly, Packaging, Transportation, Unpacking, and Relocation of Semiconductor Manufacturing Equipment for Cycle 2, 2025 and the ballot failed the TC Chapter review (as described in 5.1 above). The TF will meet every two weeks to continue reviewing negatives received from a reject voter. The TF expects the document will be reballoted for Cycle 7 or 8.

**Attachment:** 07\_250425 TF report v1

### 6.2.3 *5-year Review Task Force*

Masafumi Kitano (Fujikin) reported for the 5-year Review TF. Line Item Revision Ballots for SEMI F44 and F45 passed at the previous Gases and Facilities Japan Joint TC Chapter meeting in October and they were both published as F44-0325 and F45-0325 respectively. As they found one item which should be corrected in SEMI F44 (which was out of scope of aforementioned Line Item Revision), he proposed to make Type 2 Editorial Change to SEMI F44 by submitting a Publication Change Request (PCR) form. The proposed editorial change was reviewed by the Gases and Facilities Japan Joint TC Chapter and they agreed that it cannot be handled by PCR as it is technical change. The TF will propose Line Item Revision SNARF to the Gases and Facilities Japan Joint TC Chapter at the next meeting or the Facilities GCS.

**Attachment:** 08\_PCR Form\_v2 Oct 2022 250425 F44\_0312\_R2

## 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 within this year.

## 8 **New Business**

None.

## 9 Action Item Review

### 9.1 Open Action Items

Item #	Assigned to	Details
G+F_20241024-01	SEMI Staff	To submit the results of Doc.#7205A and 7206A ballot review to the ISC A&R for procedural review. →Closed
G+F_20241024-02	5-year Review TF	To prepare PCR to make an editorial change to SEMI F44. (Refer to New Business section.) →Closed
G+F_20241024-03	E137 Revision TF	To submit Doc.#7297, Revision to E137-0705 (Reapproved 0118), Guide for Final Assembly, Packaging, Transportation, Unpacking, and Relocation of Semiconductor Manufacturing Equipment for Cycle 2, 2025. →Closed

### 9.2 New Action Items

Item #	Assigned to	Details
G+F_20250425-01	E137 Revision TF	To submit Doc.#7297A, Revision to E137-0705 (Reapproved 0118), Guide for Final Assembly, Packaging, Transportation, Unpacking, and Relocation of Semiconductor Manufacturing Equipment for Cycle 7 or 8, 2025.
G+F_20250425-02	5-year Review TF	To propose SNARF for Line Item Revision to SEMI F44-0325, Specification for Machined Stainless Steel Weld Fittings.

## 10 Next Meeting and Adjournment

The next meeting is scheduled for Friday, November 28, 2025 10:00AM – 1:00 PM at SEMI Japan, Tokyo, Japan and via OVTCCM (Hybrid). See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [4:00 PM JST].

Respectfully submitted by:

Akiko Yoshida

Standards & EHS

SEMI Japan

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Email: ayoshida@semi.org

Minutes tentatively approved by:

Hiromichi Enami (iZoom) , Co-chair	May 7, 2025
Isao Suzuki (Consultant), Co-chair	May 1, 2025
Masafumi Kitano (Fujikin), Co-chair	May 7, 2025

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

<i>Title</i>	<i>Title</i>
01_ Required Meeting Elements March 2024_J	05_ Staff Report Feb 2025 v2_ay
02_ G+F Japan TC_Minutes_20241024_R2	06_ 7297_Ballot Review
03_ EU Gases & Liquid Chemicals Liaison Report Nov2024 v1	07_ 250425 TF report v1
04_ NA F&G Liaison Report Feb2025 v1	08_ PCR Form_v2 Oct 2022 250425 F44_0312_R2

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