



Gases and Facilities Japan Joint TC Chapter

Meeting Summary and Minutes

December 11,2020, Begin13:00 – end 16:30

SEMI Japan, Tokyo, Japan

TC Chapter Announcements

Next TC Chapter Meeting

Gases and Facilities Japan Joint TC Chapter

Friday, May 14,2021, Begin 13:00 –End 16:00

SEMI Japan, Tokyo, Japan

Table 1 Meeting Attendees

Italics indicate virtual participants

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

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

SEMI Staff: Mami Nakajo (SEMI Japan)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
i-ZOOM	Enami	Hiromichi	<i>KOKUSAI ELECTRIC</i>	<i>Matsuda</i>	<i>Mitsuhiro</i>
Consultant	Suzuki	Isao	<i>NISSAN TANAKA</i>	<i>Takamisawa</i>	<i>Kazuhiko</i>
<i>Fujikin</i>	<i>Kitano</i>	<i>Masafumi</i>			
Tokyo Electron	Mashiro	Supika	SEMI Japan	Nakajo	Mami

Table 2 Leadership Changes

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

Table 3 Committee Structure Changes

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

Table 3 Committee 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>
6395B	Revision to SEMI F1-0812, Specification for Leak Integrity of High Purity Gas Piping Systems and Components	Passed with Editorial Change
The following ballots reviews are transferred from NA TC Chapter (approved by the GCS)		
6656	Line Item Revision to SEMI C3.6-0710 (Reapproved 0815), Specification for Phosphine (PH3) in Cylinders, 99.98% Quality	
Line Item 1	Update “Referenced Standards and Documents” Section.	Passed as balloted
Line Item 2	Change “Specifications” section heading to “Requirements” per Procedure Manual.	Passed as balloted
Line Item 3	Address trademark(s) per Regulations § 16.4.4.	Passed as balloted
6657	Line Item Revision to SEMI C3.35-1109E (Reapproved 0815), Specification for Hydrogen Chloride (HCl), 99.997% Quality	
Line Item 1	Change “Specifications” section heading to “Requirements” per Procedure Manual.	Passed as balloted
Line Item 2	Address trademark(s) per Regulations § 16.4.4.	Passed as balloted
6658	Line Item Revision to SEMI C71-0815, Specification and Guide for Boron Trichloride (BCl3)	
Line Item 1	Update “Referenced Standards and Documents” Section.	Passed as balloted
Line Item 2	Address trademark(s) per Regulations § 16.4.4.	Passed as balloted
6616	Revision to SEMI E12-1213, Guide for Standardized Pressure, Temperature, Density, and Flow Units Used in Mass Flow Meters and Mass Flow Controllers	Passed as balloted
6623	Reapproval for SEMI F72-0214, Test Method for Auger Electron Spectroscopy (AES) Evaluation of Oxide Layer of Wetted Surfaces of Passivated 316L Stainless Steel Components	Passed with Editorial Change
6643	New Standard: Specification for Location and Dimensions for Power Connectors and EtherCAT Ports in Mass Flow Controllers and Mass Flow Meters	Failed and returned to TF for rework

#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

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
6656	Ballot	Gases Specification Task Force	Line Item Revision to SEMI C3.6-0710 (Reapproved 0815), Specification for Phosphine (PH3) in Cylinders, 99.98% Quality (Ballot review was transferred from NA to Japan)
6657	Ballot	Gases Specification Task Force	Line Item Revision to SEMI C3.35-1109E (Reapproved 0815), Specification for Hydrogen Chloride (HCl), 99.997% Quality (Ballot review was transferred from NA to Japan)
6616	Ballot	Mass Flow Controller Task Force	Revision to SEMI E12-1213, Guide for Standardized Pressure, Temperature, Density, and Flow Units Used in Mass Flow Meters and Mass Flow Controllers (Ballot review was transferred from NA to Japan)

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

#	Type	SC/TF/WG	Details
6623	Ballot	Materials of Construction of Gas Delivery Systems Task Force	Reapproval for SEMI F72-0214, Test Method for Auger Electron Spectroscopy (AES) Evaluation of Oxide Layer of Wetted Surfaces of Passivated 316L Stainless Steel Components (Ballot review was transferred from NA to Japan)
6643	Ballot	Mass Flow Controller Task Force	New Standard: Specification for Location and Dimensions for Power Connectors (Ballot review was transferred from NA to Japan)
6658	Ballot	Gases Specification Task Force	Line Item Revision to SEMI C71-0815, Specification and Guide for Boron Trichloride (BCI3) (Ballot review was transferred from NA to Japan)

Table 6 Authorized Activities

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

#	Type	SC/TF/WG	Details
None			

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

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

Table 7 Authorized Ballots

#	When	TF	Details
None			

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

#	TF	Title	Expiration Date
None			

Table 9 SNARF(s) Abolished

#	TF	Title
6395	F1 Revision TF	Revision to SEMI F1-0812, Specification for Leak Integrity of High Purity Gas Piping Systems and Components

Table 10 Standard(s) to receive Inactive Status

<i>Standard Designation</i>	<i>Title</i>
None	

Table 11 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20201211_01	SEMI Japan Staff	To tell SEMI NA Staff to update the contents of NA F&G Liaison Report Dec2020 v1 including of F47
20201211_02	F1. Revision TF	To conduct a meeting by the next TC Chapter meeting to consider a new SNARF for SEMI F1 in response to the voting comments from Supika Mashiro.
20201211_03	5 year TF	To conduct a meeting by the next TC Chapter meeting to consider the contents for issuing a reapproval.

Table 12 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20191002_01	F1 Rev TF	To submit 6395B to Cycle 2, 2020 → Done

1 Welcome, Reminders, and Introductions

Isao Suzuki (Consultant) called the meeting to order at 13:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01-02 SEMI Standards Required Elements_June2020_E+J,

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: To approve the minutes of the previous meeting with an editorial change.

By / 2nd: Hiromichi Enami (i-ZOOM)/ Supika Mashiro (Tokyo Electron)

Discussion: None.

Vote: 2 in favor and 0 opposed. **Motion passed.**

Attachment: 02-01 20191210_Minutes_Gases and Facilities_R1,

3 Liaison Reports

3.1 Gases North America TC Chapter

Mami Nakajo (SEMI Japan) reported for the *Gases North America* TC Chapter.:



Attachment: 03-01 NA F&G Liaison Report Dec2020 v1,

3.2 *Facilities North America TC Chapter*

Mami Nakajo (SEMI Japan) reported for the *Facilities North America TC Chapter*..

Action Item: 20201211_01, SEMI Japan Staff to tell SEMI NA Staff to update the contents including of F47

Attachment: 03-01 NA F&G Liaison Report Dec2020 v1,

3.3 *Gases Europe TC Chapter*

No report.

3.4 *Facilities Korea TC Chapter*

No report.

3.5 *SEMI Staff Report*

Mami Nakajo (SEMI Japan) gave the SEMI Staff Report.:

Attachment: 04-01 StaffReport11302020

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 Cycle 2-2020 submitted by the Japan TC Chapter

4.1.1 6395B - Revision to SEMI F1-0812, Specification for Leak Integrity of High Purity Gas Piping Systems and Components

4.2 Cycle 2-2020 submitted by the NA TC Chapter (the GCS authorized to transfer responsibilities for Letter Ballot review from the NA TC Chapter to the Japan Chapter of 3D Packaging & Integration Committee for these documents)

4.2.1 6616, Revision to SEMI E12-1213, Guide for Standardized Pressure, Temperature, Density, and Flow Units Used in Mass Flow Meters and Mass Flow Controllers

4.2.2 6623 - Reapproval for SEMI F72-0214, Test Method for Auger Electron Spectroscopy (AES) Evaluation of Oxide Layer of Wetted Surfaces of Passivated 316L Stainless Steel Components

4.3 Cycle 5-2020 submitted by the NA TC Chapter (the GCS authorized to transfer responsibilities for Letter Ballot review from the NA TC Chapter to the Japan Chapter of 3D Packaging & Integration Committee for these documents)

4.3.1 6656, Line Item Revision to SEMI C3.6-0710 (Reapproved 0815), Specification for Phosphine (PH₃) in Cylinders, 99.98% Quality

4.3.1.1 Line Item 1: Update “Referenced Standards and Documents” Section.

4.3.1.2 Line Item 2: Change “Specifications” section heading to “Requirements” per Procedure Manual.

4.3.1.3 Line Item 3: Address trademark(s) per Regulations § 16.4.4.

4.3.2 6657, Line Item Revision to SEMI C3.35-1109E (Reapproved 0815), Specification for Hydrogen Chloride (HCl), 99.997% Quality

4.3.2.1 Line Item 1: Change “Specifications” section heading to “Requirements” per Procedure Manual.



4.3.2.2 Line Item 2: Address trademark(s) per Regulations § 16.4.4.

4.3.3 6658, Line Item Revision to SEMI C71-0815, Specification and Guide for Boron Trichloride (BCI3)

4.3.3.1 Line Item 1: Update “Referenced Standards and Documents” Section.

4.3.3.2 Line Item 2: Address trademark(s) per Regulations § 16.4.4.

4.4 Cycle 6-2020 submitted by the NA TC Chapter (the GCS authorized to transfer responsibilities for Letter Ballot review from the NA TC Chapter to the Japan Chapter of 3D Packaging & Integration Committee for these documents)

4.4.1 6643 - New Standard: Specification for Location and Dimensions for Power Connectors and EtherCAT Ports in Mass Flow Controllers and Mass Flow Meters

Attachment: 05-01 6395B_BallotReport_F1_Reapproval, 05-02 Ballot Line-Item report template_6656_20201211, 05-03 Ballot Line-Item report template_6657_20201211r1, 05-04 Ballot Line-Item report template_6658_20201211, 05-05 Ballot Report Template_6616_20201211, 05-06 Ballot Report Template_6623_20201211, 05-07 Ballot Report Template_6643_20201211

5 Subcommittee and Task Force Reports

5.1 *Gases Japan TC Chapter*

None.

5.2 *Facilities Japan TC Chapter*

5.2.1 F1 Revision Task Force

No special report.

5.2.2 5-year-review Task Force

No special report.

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6 Old Business

6.1 Project Period Review

6.1.1 #6395 Snarf for Revision to SEMI F1-0812, Specification for Leak Integrity of High Purity Gas Piping Systems and Components

As the ballot, 6395B was approved as passed by the Japan TC Chapter, the SNARF is going to be discontinued after A&R approval.

Action Item: 20201211_02, F1. Revision TF to conduct a meeting by the next TC Chapter meeting to consider a new SNARF for SEMI F1 in response to the voting comments from Supika Mashiro.

Attachment: 05-01 6395B_BallotReport_F1_Reapproval,

6.2 5-Year Review Check

6.2.1 SEMI F80-0309 (Reapproved 0914) Test Method for Determination of Gas Change/Purge Efficiency of Gas Delivery System



Action Item: 20201211_03, 5 year TF to conduct a meeting by the next TC Chapter meeting to consider the contents for issuing a reapproval.

7 New Business

7.1 *Conduct a simulation of Official Virtual TC Chapter Meeting.*

Official Virtual Simulation was held and evaluated how SEMI Virtual Meeting (SVM) software worked using svm.semi.org.

8 Action Item Review

8.1 Open Action Item

Action Item 20191002_01 is Done

8.2 New Action Item

Action Item: 20201211_01, SEMI Japan Staff to tell SEMI NA Staff to update the contents including of F47

Action Item: 20201211_02, F1. Revision TF to conduct a meeting by the next TC Chapter meeting to consider a new SNARF for SEMI F1 in response to the voting comments from Supika Mashiro.

Action Item: 20201211_03, 5 year TF to conduct a meeting by the next TC Chapter meeting to consider the contents for issuing a reapproval.

9 Next Meeting and Adjournment

The next meeting is scheduled at 1 p.m. for Friday May 14,2021 at SEMI Japan, Tokyo, Japan.

See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [16:30].

Respectfully submitted by:

Mami Nakajo

Standards & EHS

SEMI Japan

Phone: 81.3.3222.5949

Email: mnakajo@semi.org

Minutes tentatively approved by:

Hiromichi Enami (i-ZOOM), Co-chair	2021/01/07
Isao Suzuki (Consultant), Co-chair	2021/01/06
Masafumi Kitano (Fujikin)	2020/12/24

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01-02 SEMI Standards Required Elements_June2020_E+J	05-03 Ballot Line-Item report template_6657_20201211r1
02-01 20191210_Minutes_Gases and Facilities_R1	05-04 Ballot Line-Item report template_6658_20201211



Table 13 Index of Available Attachments#1

03-01 NA F&G Liaison Report Dec2020 v1	05-05 Ballot Report Template_6616_20201211
04-01 StaffReport11302020	05-06 Ballot Report Template_6623_20201211
05-01 6395B_BallotReport_F1_Reapproval	05-07 Ballot Report Template_6643_20201211
05-02 Ballot Line-Item report template_6656_20201211	

#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 [Mami Nakajo]at the contact information above.