



STANDARDS NEW ACTIVITY REPORT FORM (SNARF)

Date Prepared: August 28, 2025 Revised (if Applicable): _____

SNARF for: Major Revision to SEMI D53-0421: SPECIFICATION FOR FLAT PANEL DISPLAY (FPD) PELLICLES

Originating Global Technical Committee: Flat Panel Display (FPD) - Materials & Components

Originating TC Chapter: Japan

Task Force (TF) in which work is to be carried out: FPD Mask Task Force

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Refer to *Procedure Manual* § 2.2.4 for more information on properly filling out the SNARF.

1. Rationale:

a: Describe the need or problem addressed by this activity.

(Indicate the customer, what benefits they will receive, and if possible, quantify the impact on the return on investment [ROI] if the Standards Document is implemented.)

To support new FPD mask pellicle sizes driven by market changes, we have revised this standard. The update also includes minor text revisions to ensure alignment with our corporate Style Manual.

Item #1: Correct the maximum size shown in the Scope based on the latest information.

Item #2: Amend the document name to the latest registered name.

Item #3: Review the text for compliance with the Style Manual.

Item #4: Insert the new pellicle sizes into Table 1.

b: Estimate effect on industry. Check one of the following:

☐ 1: Major effect on entire industry or on multiple important industry sectors

- identify the relevant sectors: _____

☐ 2: Major effect on an industry sector

- identify the relevant sector: _____

☐ 3: Major effect on a few companies

- identify the relevant companies: _____

☒ 4: Slight effect or effect not determinable

c: Estimate technical difficulty of the activity. Check one of the following:

☒ I: No Difficulty – Proven concepts and techniques exist or quick agreement is anticipated

☐ II: Some Difficulty – Disagreements on known requirements exist, but developing consensus is possible

☐ III: Difficult – Limited expertise and resources exist and/or achieving consensus is difficult

☐ IV: Extremely Difficult – Expertise and resources are scarce and/or achieving consensus is very difficult



2. Scope:

a: Describe the technical areas to be covered or addressed by this Standards Document development activity.

(For Subordinate Standards, list common concepts or criteria that the Subordinate Standard inherits from the Primary Standard, as well as differences from the Primary Standard.)

Major Revision of SEMI D53-0421

Item #1: Correct the maximum size shown in the Scope based on the latest information.

- 2.1 These dimensions apply to pellicle for masks that are principally used in fabricating flat panel displays. The mask size specifies range from 330 × 450 mm to ~~4220~~1620 × ~~1400~~1780 mm.

Item #2: Amend the document name to the latest registered name.

3.1 SEMI Standards and Safety Guidelines

SEMI D6 — Specification for ~~Liquid Crystal Display (LCD)~~ Flat Panel Display (FPD)
Mask Substrates

Item #3: Review the text for compliance with the Style Manual.

- 6.3.1 ~~Not to be broken by air blow.~~ The pellicle film shall not break under the specified air blow conditions.

Item #4: Insert the new pellicle sizes into Table 1.

Table 1 Stand Off Size (mm)

<u>Mask Size:800 × 945</u>	<u>Stand off: 7</u>
<u>Mask Size:980 × 1150</u>	<u>Stand off: 7</u>
<u>Mask Size:980 × 1550</u>	<u>Stand off :7</u>
<u>Mask Size:1620 × 1780</u>	<u>Stand off :8</u>

b: Expected result of activity

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> New Standard or Safety Guideline (including replacement of an existing Standard or Safety Guideline) | <input type="checkbox"/> Line-item revision to an existing Standard or Safety Guideline |
| <input type="checkbox"/> New Subordinate Standard to an existing Standard or to a new Primary Standard to be developed concurrently with this new Subordinate Standard | <input type="checkbox"/> Line-item revision to two or more existing Standards or Safety Guidelines |
| <input type="checkbox"/> New Preliminary Standard | <input type="checkbox"/> Reapproval of a Standard or Safety Guideline |
| <input checked="" type="checkbox"/> Major revision to an existing Standard or Safety Guideline | <input type="checkbox"/> Removal of a Standard or Safety Guideline |
| <input type="checkbox"/> Major revision to two or more existing Standards or Safety Guidelines | <input type="checkbox"/> Withdrawal of a Standard or Safety Guideline |
| <input type="checkbox"/> Publication of an existing Standard or Safety Guideline as an American National Standard | <input type="checkbox"/> Reinstatement of a Standard or Safety Guideline |
| | <input type="checkbox"/> New Auxiliary Information |
| | <input type="checkbox"/> Modification of existing Auxiliary Information |

For a new Subordinate Standard, identify the Primary Standard here:

For revision of existing Standard(s) or Safety Guideline(s), identify all of the Standard(s) or Safety Guideline(s), including Publication Date Code, that are to be revised here;

and identify which parts of the Standard(s) or Safety Guideline(s) that are to be revised (Check all that apply.)

■ Modification of an existing part of Standard(s) or Safety Guideline(s) including Appendices, Complementary Files, and Supplementary Materials



- ☐ Addition of one or more Appendices or Complementary Files to an existing Standard or Safety Guideline
- ☐ Addition of one or more Related Information sections or Various Materials to an existing Standard or Safety Guideline
- ☐ Revision or addition of one or more Subordinate Standards to an existing Primary Standard

For Standards, identify the Standard Subtype below:

- | | |
|----------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Classification | <input type="checkbox"/> Guide |
| <input type="checkbox"/> Practice | <input checked="" type="checkbox"/> Specification |
| <input type="checkbox"/> Test Method | <input type="checkbox"/> Terminology |
| <input type="checkbox"/> Miscellaneous (describe:) | |

3. Projected Timetable for Completion:

a: General Milestones

- | | |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| a. Activity Start: August 28, 2025 | b. 1 st Draft Document by: August, 2025 |
| c. (Optional) Informational Ballot by: | d. Letter Ballot by: Cycle1-2026 |
| e: TC Chapter Approval By: March 31, 2026 | |

4. Liaisons:

a: List SEMI Global Technical Committees, TC Chapters, Subcommittees, or Task Forces in your or other Regions/Locales that should be kept informed regarding the progress of this activity.

(Refer to SEMI Standards organization charts and global technical committee charters and scopes as needed.)

b: List any planned Type I Liaisons with external nonprofit organizations (e.g., SDO) that should receive Draft Documents from Standards staff for feedback during this activity and be notified when the Letter Ballot is issued (refer to *Procedure Manual* § 7).

c: Intercommittee Ballots (check one):

- ☐ will be issued – **identify the recipient global technical committee(s):** _____
- ☒ will not be issued

5. Safety Considerations:

The resulting Standards Document is expected (Check one):

- ☐ to be a Safety Guideline
- ☒ NOT to be a Safety Guideline

NOTE FOR 'to be a Safety Guideline': When all safety-related information is removed from the Standards Document, the Standards Document is NOT technically sound and complete – Refer to § 15.1 of the *Regulations* for special procedures to be followed.

NOTE FOR 'NOT to be a Safety Guideline': When all safety-related information is removed from the Standards Document, the Standards Document is still technically sound and complete.

6. Intellectual Property Considerations:



NOTE THAT both a: and b: below should be checked for Revision of existing Standard(s) and Safety Guideline(s).

a: For a new Standard or Safety Guideline and for any part to be modified or added in a Revision of published Standards and Safety Guidelines (Check one):

- ☒ the use of patented technology is NOT required.
 - ☐ patented technology, other than previously known patented technology identified in b: below, is intended to be included in the proposed Standard(s) or Safety Guideline(s).
- (If the second box is checked, check one):**
- ☐ Letter of Intent received
 - ☐ Letter of Intent not received

b: For Revision, Reapproval, Reinstatement, or Withdrawal of existing Standard(s) and Safety Guideline(s) (Check one):

- ☒ there is no known relevant patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)
- ☐ there is previously known relevant patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)

c: The body of the Standards Document and any Appendices, Complementary Files, Related Information sections, or Various Materials that may or may not be a part of the Standards Document by reference (Check one):

- ☐ will incorporate Copyrighted Item
- ☒ the incorporation of Copyrighted Item will NOT be required

NOTE FOR 'the use of patented technology or the incorporation of Copyrighted Item(s) is NOT required': If in the course of developing the Standards Document, it is determined that the use of patented technology or Copyrighted Item(s) is necessary for the Standards Document, the provisions of *Regulations* § 16 must be followed.

NOTE FOR 'will incorporate Copyrighted Item': A copyright release letter must be obtained from the copyright owner prior to publication.

7. Comments, Special Circumstances:

8. TC Member Review (Check one):

- ☐ took place between (put dates here: MM/DD/YYYY and MM/DD/YYYY) before approval at the TC Chapter Meeting, or
- ☐ took place between (put dates here: MM/DD/YYYY and MM/DD/YYYY) before approval by the GCS, or
- ☐ is not required for this SNARF.

NOTE FOR 'TC Member Review': A TC Member Review is required by the *Regulations* for a period of at least two weeks before approval of a new, or a major revision of an existing, Standard or Safety Guideline. (Refer to *Regulations* ¶ 8.2.1)

9. Approval Dates:



TC Chapter or GCS: _____
Recorded in TC Chapter Minutes: _____
