We propose a pitting potential test standard that addresses stainless steel components of varying geometry (such as fittings and glands). Current SEMI F77 only addresses coupons that are flat. By coating non-tested areas of fittings and glands with a masking lacquer, we can focus on the quality of stainless surfaces that are of interest to us. This standard for dynamic polarization pitting tests would be based on ASTM G-61.
2. Scope:
a: Describe the technical areas to be covered or addressed by this 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.)

This new standard will complement existing SEMI F77, suitability of which is limited to flat coupons. The proposed standard, based on ASTM G-61 will extend to other geometries such as fittings, glands which are routinely used in semiconductor gas delivery systems. Dynamic Pitting Potential tests are important to assess the quality of stainless steel surfaces used in gas delivery systems.

b: Expected result of activity

X New Standard or Safety Guideline (including replacement of an existing Standard or Safety Guideline)
□ New Subordinate Standard to an existing Standard or to a new Primary Standard to be developed concurrently with this new Subordinate Standard
□ New Preliminary Standard
□ Major revision to an existing Standard or Safety Guideline
□ Line-item revision to an existing Standard or Safety Guideline
□ Line-item revision to two or more existing Standards or Safety Guidelines
□ Reapproval of a Standard or Safety Guideline
□ Removal of a Standard or Safety Guideline
□ Withdrawal of a Standard or Safety Guideline
□ Reinstatement of a Standard or Safety Guideline
□ Publication of an existing Standard or Safety Guideline as an American National Standard
□ New Auxiliary Information
□ 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 the Standard(s) or Safety Guideline(s) 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:

□ Classification                  □ Guide
□ Practice                        □ Specification
X Test Method                     □ Terminology
□ Miscellaneous (describe:)

3. Projected Timetable for Completion:

a: General Milestones
   a. Activity Start: September 01, 2019
   b. 1st Draft by: November 4, 2019
   c. (Optional) Informational Ballot by: 
   d. Letter Ballot by: February 2020
   e. TC Chapter Approval By: March 31, 2020

4. Liaisons with other Global Technical Committees/TC Chapters/Subcommittees/TFs:

a: List 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 as needed.)

b: Intercommittee Ballots (check one):
   □ will be issued – identify the recipient
global technical committee(s):
   X will not be issued

5. Safety Considerations:

The resulting Document is expected (Check one):
   □ to be a Safety Guideline
   X NOT to be a Safety Guideline

NOTE FOR ‘to be a Safety Guideline’: When all safety-related information is removed from the Document, the 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 Document, the Document is still technically sound and complete.

6. Intellectual Property Considerations:

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):
   X the use of patented technology is NOT required.
   □ patented technology 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 material patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)

☐ there is previously known material patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)

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

☐ will incorporate Copyrighted Item

X 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 Document, it is determined that the use of patented technology or Copyrighted Item(s) is necessary for the 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

X took place between (put dates here: 08/09/2019 and 08/23/2019 ) 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. (See Regulations ¶ 8.2.1)

9. Approval Dates:
TC Chapter or GCS: 
Recorded in TC Chapter Minutes: 

If you do not have email capability, you may fax this form to the nearest SEMI office:

SEMI HQ: 1.408.428.9600
China: 86.21.6027.8511
Europe: 49.30.8187.8879
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