

STANDARDS NEW ACTIVITY REPORT FORM (SNARF)

Date Prepared: November 5, 2019	Revised (if Applicable):
SNARF for: New Standard: Guide for Facilities Data and Building Information Modeling	a Package for Semiconductor Equipment Installation
Originating Global Technical Committee: Facilitie	s
Originating TC Chapter: North America	
Task Force (TF) in which work is to be carried out	Building Information Modeling (BIM) for Semiconductor Capital Equipment Task Force
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Refer to <i>Procedure Manual</i> § 2.2.4 for more information	on on properly filling out the SNARF.
Document is implemented.) Semiconductor manufacturers are asking equipment Modeling (BIM) software and the industry needs a standard applications (there are at least three softwal latest trend in facilities planning. Basically, it is a 3E with interconnect information (water, power, gas, exhoto reflect the true dimensions of the tool and show the also expected to contain information about idle, type similar to what is currently defined in SEMI E6. This fab, optimize layouts, and plan all of the facilities requisively. The benefit of BIM to the semiconductor optimizing existing fabs and this effort is being driven With a common format that works for all semiconequipment manufacturers will only have to create on take several hundred man hours to build such a micrommon format.	tandard format that will work with multiple different re companies that work in this space). This is the D model (shell only) of a piece of capital equipment aust, etc) defined in the model. The model needs lee x, y, and z location of each interface point. It is lical, and maximum usage of each interface point allows the user to build virtual models of their entire differents (routing and sizing of all of the equipment manufacturers is large when designing new fabs or a by some of the largest semiconductor companies. Inductor manufacturers and all BIM software, the me BIM model per equipment configuration. It can
b: Estimate effect on industry. Check one of the followin 1: Major effect on entire industry or on multiple import	
- identify the relevant sectors: X 2: Major effect on an industry sector	
Semiconductor Mai	nufacturers (Fab Owners), Equipment Suppliers, eering/Construction (AEC) service providers
☐ 3: Major effect on a few companies	V / 1

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 \square 4: Slight effect or effect not determinable



c: E	stimate technical difficulty of the activity. Check one of the following:
	: No Difficulty – Proven concepts and techniques exist or quick agreement is anticipated
X II	: Some Difficulty - Disagreements on known requirements exist, but developing consensus is possible
	II: Difficult – Limited expertise and resources exist and/or achieving consensus is difficult
	V: 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 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.)

- 1. This Guide would be applicable to all semiconductor wafer process and support equipment.
- 2. This Guide would define a digital format that can be easily exported from a wide array of 3D modeling programs and imported into any of the BIM software packages.
- 3. This Guide would define the format of the connection data with defined location tolerances, defined features, and defined terminology.
- 4. This Guide will recommend the data for each connection.

b: Expected result of activity				
lew Standard or Safety Guideline (including	$\hfill\square$ Line-item revision to two or more existing Standards			
replacement of an existing Standard or Safety Guideline)	or Safety Guidelines			
,	\square Reapproval of a Standard or Safety Guideline			
New Subordinate Standard to an existing Standard or a new Primary Standard to be developed concurrently this new Subordinate Standard	☐ Removal of a Standard or Safety Guideline			
	☐ Withdrawal of a Standard or Safety Guideline			
☐ New Preliminary Standard	☐ Reinstatement of a Standard or Safety Guideline			
Major revision to an existing Standard or Safety deline	☐ Publication of an existing Standard or Safety			
	Guideline as an American National Standard			
☐ Line-item revision to an existing Standard or Safety	☐ New Auxiliary Information			
Guideline	$\hfill \square$ 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				
$\hfill\Box$ Addition of one or more Appendices or Complemen	ntary Files to an existing Standard or Safety Guideline			
$\hfill \Box$ Addition of one or more Related Information sections or Various Materials to an existing Standard or Safety Guideline				
$\hfill \square$ Revision or addition of one or more Subordinate Standards to an existing Primary Standard				



For Standards, identify the Standard Subtype belo	w:
☐ Classification	X Guide
☐ Practice	☐ Specification
☐ Test Method	☐ Terminology
☐ Miscellaneous (describe:)	
3. Projected Timetable for Completion:	
a: General Milestones	
a. Activity Start: November 4, 2019	b. 1st Draft by: January 6, 2020
c. (Optional) Informational Ballot by:	d. Letter Ballot by: February 11, 2020
e: TC Chapter Approval By: March 31, 2020	_
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4. Liaisons with other Global Technical Committee	es/TC Chapters/Subcommittees/TFs:
a: List Global Technical Committees, TC Chapters, Subo	committees, or Task Forces in your or other
Regions/Locales that should be kept informed regarding	
(Refer to SEMI Standards organization charts and global ted GTC Information & Control	chnical committee charters as needed.)
GTC IIIOIIIation & Control	
b: Intercommittee Ballots (check one):	
X will be issued – identify the recipient global technica	I committee(s): I&C
\square 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 info	
technically sound and complete – Refer to § 15.1 of the <i>Regulation</i> NOTE FOR 'NOT to be a Safety Guideline': When all safety-related	
technically sound and complete.	Tilloffiation is removed from the Document, the Document is still
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6. Intellectual Property Considerations:	
a: For a new Standard or Safety Guideline and for any p	art 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.	
	the proposed Standard(s) or Safaty Suidaling(-)
□ patented technology is intended to be included in telegraphical (If the second box is checked, check one):	me proposed Standard(s) or Satety Guideline(s).
□ 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.
This SNARF is refurbished from SNARF 5155 that expired West 2018.
8. TC Member Review (Check one):
□ took place between (<i>put dates here:</i> MM/DD/YYYY and MM/DD/YYYY) before approval at the TC Chapter Meeting, or
X took place between (<i>put dates here:</i> 11/20/2019 and 12/03/2019) 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 <i>Regulations</i> 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 <i>Regulations</i> ¶ 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 Japan: 81.3.3222.5757 Korea: 82.2.551.3406 Taiwan: 886.3.560.1555