

SEMI PV34-0213 (Reapproved 0219) PRACTICE FOR ASSIGNING IDENTIFICATION NUMBERS TO PHOTOVOLTAIC SILICON BRICK, WAFER AND SOLAR CELL MANUFACTURERS

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1 Purpose

- 1.1 Process and quality control for photovoltaic (PV) silicon (Si) wafer and solar cell manufacturing requires marking the wafers or solar cells with code that uniquely identifies their origin and date of manufacturing.
- 1.2 Future legal requirements also may request such a code.
- 1.3 A unique identification of manufacturer and its location has to be part of this code.
- 1.4 This Practice intends to establish a system of identification numbers for the PV industry, similarly to the one that is well established in the semiconductor industry (SEMI AUX001).

2 Scope

- 2.1 This Practice covers the assignment of identification numbers for crystalline PV Si brick and wafers as well as Si solar cell manufacturers and their locations.
- 2.2 It does not cover module manufacturers, thin film solar cell manufacturers and PV concentrator manufacturers.

NOTICE: SEMI Standards and Safety Guidelines do not purport to address all safety issues associated with their use. It is the responsibility of the users of the Documents to establish appropriate safety and health practices, and determine the applicability of regulatory or other limitations prior to use.

3 Referenced Standards and Document

3.1 SEMI Auxiliary Documents

SEMI AUX001 — List of Wafer Supplier Identification Codes

SEMI AUX025 — List of Identification Codes of Suppliers of Si Bricks, Si Wafers and Photovoltaic c-Si Solar Cells for Use in the PV Industry

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

4 Summary of Practice

- 4.1 An application for an identification number is submitted by a company or research institute to SEMI Standards.
- 4.2 SEMI Standards assigns a unique identification number to the applying company or institute.
- 4.3 SEMI Standards publishes the lists for wafer manufacturers and solar cell manufacturers as an Auxiliary Document (SEMI AUX025) and updates it accordingly.

5 Procedure

- 5.1 Applicant: Fill application form (see Table 1).

NOTE 1: This form will be kept in SEMI Standards records but will not be published.

- 5.2 Applicant: Submit application to SEMI Standards with an accompanying letter (see Related Information 1).

5.3 For brick/wafer manufacturers and solar cell manufacturers:

5.3.1 SEMI Standards: Issue an identification number from the number space 001 to 999 for silicon brick and wafer manufacturers and from the number space 1001 to 9999 for solar cell manufacturers according to the arrival date of the application at SEMI Standards and their alphabetical order according to the company name.

5.3.2 SEMI Standards: Start these lists with 001 and 1001, respectively.

5.3.3 SEMI Standards: Issue the next available higher number for new entries.

5.3.4 SEMI Standards: Check if this number is available and not reserved (Table 6).

5.3.5 SEMI Standards: If number is contained in Table 6, take next higher number and continue with to ¶ 5.3.4.

5.3.6 SEMI Standards: Enter this number as well as the applicant in a list (see Tables 2 and 3).

5.3.7 SEMI Standards: Publish the list of assigned numbers as an Auxiliary Document (SEMI AUX025) and update it accordingly.

5.4 For research institutes:

5.4.1 SEMI Standards: Issue a main identification number 000 or 1000 and a secondary identification number from the number space 001 to 999 according to the arrival date of the application at SEMI Standards and their alphabetical order according to the company name.

5.4.2 SEMI Standards: Start these lists with 001 and 1001, respectively.

5.4.3 SEMI Standards: Issue the next available higher number for new entries.

5.4.4 SEMI Standards: Enter this number as well as the applicant in a list (see Tables 4 and 5).

Table 1 Form for Applying for a Manufacturer/Research Institute ID Number (contents are only examples)

<i>Company/ Institute Name</i>	<i>Research Institute?</i>	<i>Location^{#1}</i>	<i>Product^{#2}</i>	<i>Address</i>	<i>City</i>	<i>State (only if it applies)</i>	<i>Zip</i>	<i>Country</i>	<i>Nominal peak production capacity/wfrs/y or bricks/y^{#3}</i>
AB	no	XY	wafer	156 Wafer Road	Silicon Valley	Minnewaho	MW 12345	Dollarland	4 600
AB	no	VW	wafer	Ingot Weg 36	Kristallburg		00389	Euroland	500 000
AB	no	PQ	solar cell	20 Cell Avenue	Busbar		798600	Asialand	100 000 000
AB	no	RS	solar cell	20 Cell Avenue	Busbar		798600	Asialand	200 000 000
XY	yes	RI	wafer	3456 Shockley Alley	Sun Town		1234	Anyland	

#1 List all locations for which a different identification number is requested. A maximum of one identification number will be issued for solar cell manufacturers per location with up to 25 Million cells production capacity per year.

#2 Enter either 'wafer' or 'solar cell'.

#3 For solar cells or brick/wafer manufacturers.

Table 2 Identification Numbers for Si Brick and Si Wafer Manufacturers

<i>ID Number</i>	<i>Company Name</i>	<i>Location</i>	<i>Date of Assignment</i>
001	AB	XY	
002	AB	VW	