Standardized Information for Process/Product Change Notification (PCN)

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		1. PCN	l basic data	
1.1 Company	TAIWAN SEMICONDUCTOR			III biovided by
1.2 PCN No.		PCN17014-1		- 1
1.3 Title of P	CN	A new fully-automated SMB backend assembly line increase		
1.4 Product Category		Active Components - Discrete Components		
1.5 Issue dat	te	2019/01/10		▼ ISIGN
1.6 PCN revision history (optional)		1.7 Issue date of previous revision (optional)	1.8 Delta to previous revision (optional)	0.0.0
PCN17014		2017/02/23	A new fully-automated SMB backend assembly line increase	

2. PCN Team						
2.1 Contact supplier						
2.1.1 Name	Sunnie Lin					
2.1.2 Phone	+886-2-8913-1588 Ext:2205					
2.1.3 Email	sunnie.lin@mil.ts.com.tw					
2.2 Team supplier (optional)						
2.2.1 Name (optional)	2.2.2 Phone (optional)	2.2.3 Email (optional)				
Danny Lin	+886-2-8913-1588 Ext:2133	danny lin@mail.ts.com.tw				
Vince Lee	+86-543-869-1091 Ext:3101					
May Zhang	+86-543-869-1091 Ext:3108	may@mail.tsyew.com.cn				

3. Changes						
No.	3.0 Ident	3.1 Category	3.2 Type of change			
#1	SEM-PA-03	PROCESS - ASSEMBLY	Change in leadframe dimensions			
#2	SEM-PA-11	PROCESS - ASSEMBLY	Change of mold compound / encapsulation material			
#3	SEM-PA-13	PROCESS - ASSEMBLY	Change of product marking			
#4	SEM-PA-14	PROCESS - ASSEMBLY	Change in process technology (e.g. sawing, die attach, bonding, moulding, plating, trim and form, lead frame preperation,)			
#5	SEM-PS-03	PACKING/SHIPPING	Change of carrier (tray, reel)			

	4. Description of change						
	Old	New					
Change #1	manual SMB production line	1.manual SMB production line 2.fully-automated SMB production line					
Change #2	Lead Frame Supplier : A Material : Copper	1.manual SMB Lead Frame Supplier: A Material: Copper 2.fully-automated SMB Lead Frame Supplier: B Material: Copper					

Change #3	Molding Compound	1.manual SMB
Ü	Consumer (Non-HF)	Consumer (Non-HF)
	Type: EME-1100	Type: EME-1100
	Supplier: A	Supplier: A
	Material : Epoxy	Material : Epoxy
		Consumer (HF)
	Consumer (HF)	Type: EME-E110
	Type: EME-E110	Supplier: A
	Supplier: A	Material : Epoxy
	Material : Epoxy	
		2. fully-automated SMB
		Consumer (Non-HF)
		Type: EME-66XX series
		Supplier: B
		Material : Epoxy
		Consumer (HF)
		Type: EME-E500
		Supplier: A
		Material : Epoxy
Change #4	Marking	1.manual SMB Marking
·	no square around datecode	no special square around datecode
		2. fully-automated SMB Marking
		add special square around datecode
Change #5	Packing	Packing
Change #5	Refer to the picture of the comparison report	Refer to the picture of the comparison report
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4.6 Anticipated impact on form, fit, function, reliability or processability?	No impact in form, fit, function and reliability but	better processability for less human handling
4.7 Reference parts with customer number (optional)		

5. Reason / motivation for change				
To increase SMB capacity in assembly line for green and non-green				
5.1 Motivation				
5.2 Additional explanation (optional)				

6. Marking of parts / traceability of change				
6.1 Description Use the datecode control				

7. Timing / schedule					
7.1 Date of qualification results	2016/09/29				
7.2 Last order date (optional)		Not applicable			
7.3 Last delivery date (optional)		Not applicable			
7.4 Intended start of delivery	2019/07/01				
7.5 Qualification samples available?	When get customer order and after 2 weeks can be submitted				
7.6 Customer feedback required until	2019/02/16				

8. Qualification / validation						
8.1 Description	According to AEC-Q101					
(e.g. qual. plan/report, AEC-Q)						
8.2 Qualification report and qualification results	available (see attachement)	issue date	2016/09/29			

9. Input to customer for risk assessment process

Human Resource : Low Risk Equipment : Low Risk Technique-Wafer : Low Risk Technique-Assembly : Low Risk Sample submit time : within 30 days Form/ Fit / Function : Low Risk Reliability : Low Risk 10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)

Please see in the official announcement mail.

11. Affected parts									
11.1 Current				11.2 New (if applicable)					
11.1.1 Customer Part No.	11.1.2 Supplier Part Name		11.1.4 Package Name	11.1.5 Part Description (optional)	11.1.6 Additional Part Information	11.2.2 Supplier Part Name	11.2.3 Supplier Part No. (optional)	11.2.4 Package Name	11.2.6 Additional Part Information