


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	ADG/18/11265	
<b>1.3 Title of PCN</b>	VIPower M0L5: Activation of Singapore 8" Wafer Fab (SG8) for Additional M0L5 Products	
<b>1.4 Product Category</b>	see list	
<b>1.5 Issue date</b>	2018-12-22	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
<b>2.1.1 Name</b>	MARCELI SMIALKOWSKI
<b>2.1.2 Phone</b>	+44 1628896277
<b>2.1.3 Email</b>	marceli.smialkowski@st.com
<b>2.2 Change responsibility</b>	
<b>2.2.1 Product Manager</b>	Mario ASTUTI,Nicola LIPORACE
<b>2.1.2 Marketing Manager</b>	Roberto CRISAFULLI
<b>2.1.3 Quality Manager</b>	Francesco MINERVA

**3. Change**

<b>3.1 Category</b>	<b>3.2 Type of change</b>	<b>3.3 Manufacturing Location</b>
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Wafer fabrication	SG8 (AngMoKio - Singapore)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	Catania 6" and 8", Singapore 6" Front End locations	Catania 6" and 8", Singapore 8" Additional Front End Locations
<b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b>	No impact	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	Capacity and Service Improvement
<b>5.2 Customer Benefit</b>	CAPACITY INCREASE

**6. Marking of parts / traceability of change**

<b>6.1 Description</b>	Dedicated Finished Good Code
------------------------	------------------------------

**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2018-12-18
<b>7.2 Intended start of delivery</b>	2019-03-31
<b>7.3 Qualification sample available?</b>	Upon Request

**8. Qualification / Validation**

<b>8.1 Description</b>	11265 Qualification reports.zip		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2018-12-22

**9. Attachments (additional documentations)**

11265 Public product.pdf  
11265 Qualification reports.zip  
11265 Details.pdf

**10. Affected parts**

10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	VNH5019ATR-E	

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2018 STMicroelectronics – All rights reserved



## Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

**PCN Title :** VIPower M0L5: Activation of Singapore 8" Wafer Fab (SG8) for Additional M0L5 Products

**PCN Reference :** ADG/18/11265

**Subject :** Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

VNH5019ATR-E	VND5E004A-E	VN5R003H-E
VND5E004A30TR-E	VN5R003HTR-E	VND5E004ATR-E



### IMPORTANT NOTICE – PLEASE READ CAREFULLY

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

## PRODUCT/PROCESS CHANGE NOTIFICATION

**SUBJECT**      **VIpower M0L5: Activation of Singapore 8” Wafer Fab (SG8) for Additional M0L5 Products**

<p><b>IMPACTED PRODUCTS</b></p>	<p>Impacted Commercial Products:</p> <ul style="list-style-type: none"> <li>• VND5E004A30TR-E, VND5E004ATR-E, VND5E004A-E: impacted silicon line <b>VNT2</b>, power stage designed in technology M0L5 of product line VH21</li> <li>• VNH5019ATR-E: impacted silicon line <b>VNL4</b>, power stage designed in technology M0L5 of product line VH09</li> <li>• VN5R003H-E, VN5R003HTR-E: impacted silicon line <b>VNW5</b>, power stage designed in technology M0L5 of product line VH31</li> </ul>
<p><b>IMPACTED MANUFACTURING STEPS</b></p>	<p>Diffusion</p>
<p><b>INVOLVED PLANTS</b></p>	<p>ST Ang Mo Kio 8” (Singapore) – Receiving Fab</p>
<p><b>CHANGE REASON</b></p>	<p>Second Source policy for Service / Capacity improvement and Business Continuity</p>
<p><b>CHANGE DESCRIPTION</b></p>	<p>Following PCN ADG/16/9960 (VIpower M05 - Activation of Singapore 8" Wafer Fab (SG8) as Additional Location) other 3 silicon lines have been qualified in AMK8 Singapore front End Fab</p>
<p><b>TRACEABILITY</b></p>	<p>Dedicated Finished Good Code</p>

#### VALIDATION

Following the previous PCN ADG/16/9960, and the VIPower M0L5 technology qualification in AMK8”, the products impacted by this communication have been qualified following a family approach:

- Technology Qualification: see PCN ADG/16/9960 and related reliability report RR003315CT2235
- For the products impacted by this communication see reliability report RR000418CT2222

#### REPORTS

See attached reports

RR003315CT2235\_VIPOWER\_AMK8\_Qualification.pdf

RR000418CT2222\_M0L5 devices in AMK8.pdf