



## Product Transition Notice – Informational Notice

Customer Notice #2005-001

August 5, 2005

Dear Valued Customer,

This letter is sent to advise you that, beginning in 2006, Northrop Grumman's commercial semiconductor division, Velocium Products, will transition the production of many of its products to a new manufacturing line. The new line will use more advanced manufacturing techniques and offer the advantage of larger wafer size. Since your company has purchased products from us in the past, we want to advise you of actions that you may need to take.

Velocium currently manufactures over 110 different products for our customers, and we intend to support the transition of our highest volume products to our new production facility. However, for some parts that have either low sales volume or have been replaced by newer designs, we will discontinue production. For these **"Discontinued Products,"** customers will have a "Last Time Buy" opportunity for delivery through January 2006.

We are working to ensure that for products that we intend to transition to our new production facility (**"Continuing Products"**), overall circuit performance will continue to meet the specifications included on our data sheets. However, actual performance of any individual product can be impacted by application and operation specific factors -- as a result, beginning in September 2005, upon request, we will provide qualified customers with evaluation data for products that we intend to transition, and we will make evaluation samples available. For these Continuing Products, customers will have a "Last Time Buy" opportunity for production from our legacy production line for delivery through September 2006.

A number of products are currently designated as "Engineering Samples" or "Pre-production Devices"; as of yet we have either not committed to transitioning these products to the new production line, or we are developing enhanced products in the new line. Further information on the status of these devices will be available no later than September 30, 2005.

A table summarizing the status of each product and key dates for the product line is included on the included on Attachment 2005-001.1.

Velocium Products appreciates and values its business relationship with you and looks forward to your continued interest in our products. We apologize for any inconvenience this announcement may cause and remain eager to meet your future product requirements.

To best serve you, all inquiries and requests should be directed through the normal sales channels or the Product Marketing Managers mentioned below.

### Product Line Contact Information

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Manny Quijje	Phone: (310) 813-9766	Email: <a href="mailto:manny.quijje@ngc.com">manny.quijje@ngc.com</a>
General Inquiries/Sales:	Phone: (310) 814-5000	Email: <a href="mailto:st-velocium.sales@ngc.com">st-velocium.sales@ngc.com</a>



## Attachment 2005-001.1 Informational Notice – Summary Table

Product Class	Potential Action Required By You	Key Dates	Affected Part Numbers	
<b>Discontinued Products</b>	Evaluate requirements and if necessary issue Last Time Buy order <b>(Please refer to Velocium Customer Notice 2005-002)</b>	For Last Time Buys: <b>1) Early Purchase Discount:</b> October 1, 2005 <b>2) Last Date for orders:</b> October 31, 2005	AHB107 AHB108 AHB110 AHB111 AHB112 AEB101C ALH312C ALH386 ALH401 ALH402 ALH403 APH131C	APH212CB APH309 APH398 APH399 APH474 APH511 APH519 APH579 MDB224 VVD105 XDH151-A
<b>Continuing Products – Phase 1</b> <i>(near term transition to new production line)</i>	Determine if your requirements necessitate Last Time Buy from legacy production line <b>(Samples and further information will be available to qualified customers in September 2005)</b>	For Production from legacy (3-inch) Production Line only: <b>Last Date for Orders to be assured of production from legacy line:</b> December 1, 2005  <b>Production from new 100 mm production line is scheduled to begin in 2006</b>	ABH209 ALH102C ALH140C ALH216C ALH216C-E ALH244C APH502 APH510 APH518_A APH518_F APH533 AUH256 MDB169	MDB171 MDB172
<b>Continuing Products – Phase 2</b> <i>(near term production remains in legacy line – transition to new production line potentially in 2006)</i>	As notices are released for specific products, determine if your requirements necessitate Last Time Buy from legacy production line. Contact Velocium if you have any unique requirements sensitive to timing of product migration or anticipate sizeable changes in the volume of your requirements	<b>Velocium will issue bulletins as additional product transfer dates are identified</b>	ALH310C ALH311C ALH313C ALH321CA ALH364 ALH369 ALH376 ALH382-0 ALH394 ALH430 ALH435 ALH444 ALH445 ALH459 APH196C APH403 APH462 APH473	APH484 APH565 AUH232 AUH249 AUH312 MBH100 MDB162C MDB163C MDB177 MDB207 MDB218 SDH126 VVD102 VVD106 XDB112 XDH150 XDH158 XDH159



## Attachment 2005-001.1 Informational Notice – Summary Table (Continued)

Product Class	Potential Action Required By You	Key Dates	Affected Part Numbers
<b>Engineering Samples/Prototype</b>	Evaluate requirements and contact Velocium regarding your potential use of these part numbers and any requirements sensitive to timing of product migration.	<b>Velocium will issue bulletins as necessary</b>	ABH241 APH478 APH460 APH576 APH577 APH578 APH580 APH581 APH582 APH583 MDB277 MDB278 SDD112 VVD104 XDH168 XTB106

**NOTE:** This notice is for informational purposes only. Northrop Grumman reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to Northrop Grumman's terms and conditions of sale supplied at the time of order acknowledgment.

Further information may be found on our website at:  
[www.st.northropgrumman.com/velocium/](http://www.st.northropgrumman.com/velocium/)