March 2016
Newsletter

TAPO
Trusted Access Program Office

INTRODUCING DMEA TAPO

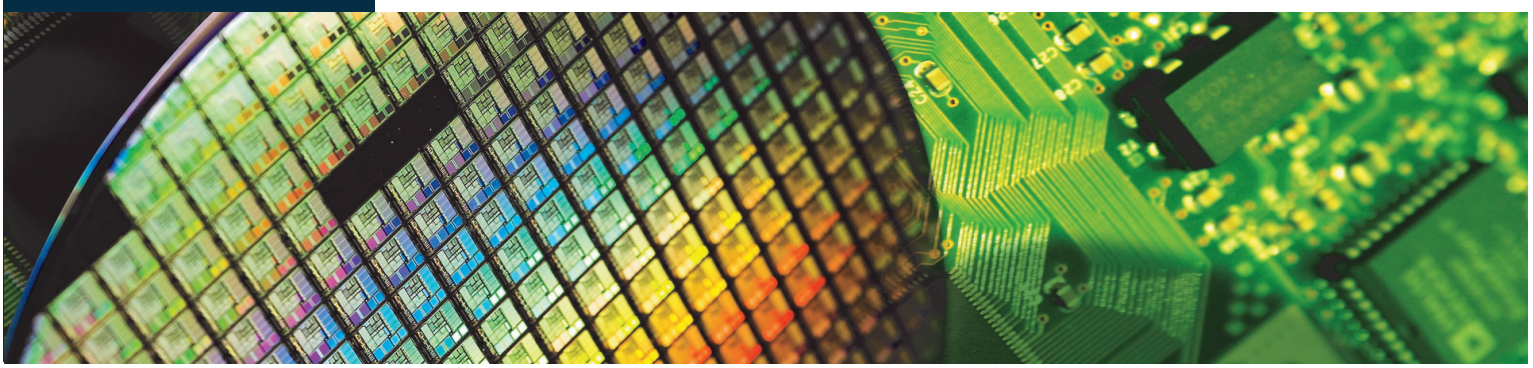
IN THIS ISSUE

The Trusted Foundry (TF) Program experienced a tumultuous year in 2015, which has resulted in two significant changes for the Trusted Access Program Office (TAPO). The first change is complete and involves the ownership of the semiconductor manufacturing facilities in Burlington, VT and East Fishkill, NY. GlobalFoundries US2 (GFUS2), a subsidiary of GlobalFoundries, now owns and operates these facilities in accordance with a letter of assurance and foreign ownership, control, or influence (FOCI) mitigations that were defined with the U.S. Government (USG) in 2015. With minimal impact to trusted processes, USG continues to access leading edge and niche technologies at these facilities in a trusted manner to meet defense and intelligence missions.

The second change involves the day to day operations of the TF Program. For the last eleven years, the NSA Trusted Access Program Office (TAPO) managed the daily operations of the Trusted Foundry (TF) Program on behalf of NSA and DoD with IBM and currently with GlobalFoundries US2. However, over the next three months, management of the TF Program will be transferring from NSA to the Defense Microelectronics Activity (DMEA). DMEA will operate as TAPO and become your primary point of contact for the TF Program. Welcome DMEA TAPO!

TAPO and DMEA are working hand in hand to create a seamless transition for our customers and to ensure success for everyone. We are absolutely committed to this goal. While your individual points of contact will be changing and DMEA is standing up a new website to accept your customer request forms, none of the basic tenets of the program will change. This change in management of the TF Program is just another small, incremental shift in the long history of the USG strategy to meet its microelectronics needs.

As TAPO and DMEA continue to work through the transition process over the next several months, keep an eye out for future communications related to the specific timeline and other aspects of the transition. DMEA TAPO is looking forward to working with you to meet your program requirements. However, until notified, please continue to communicate with your current TAPO POC regarding your specific program.

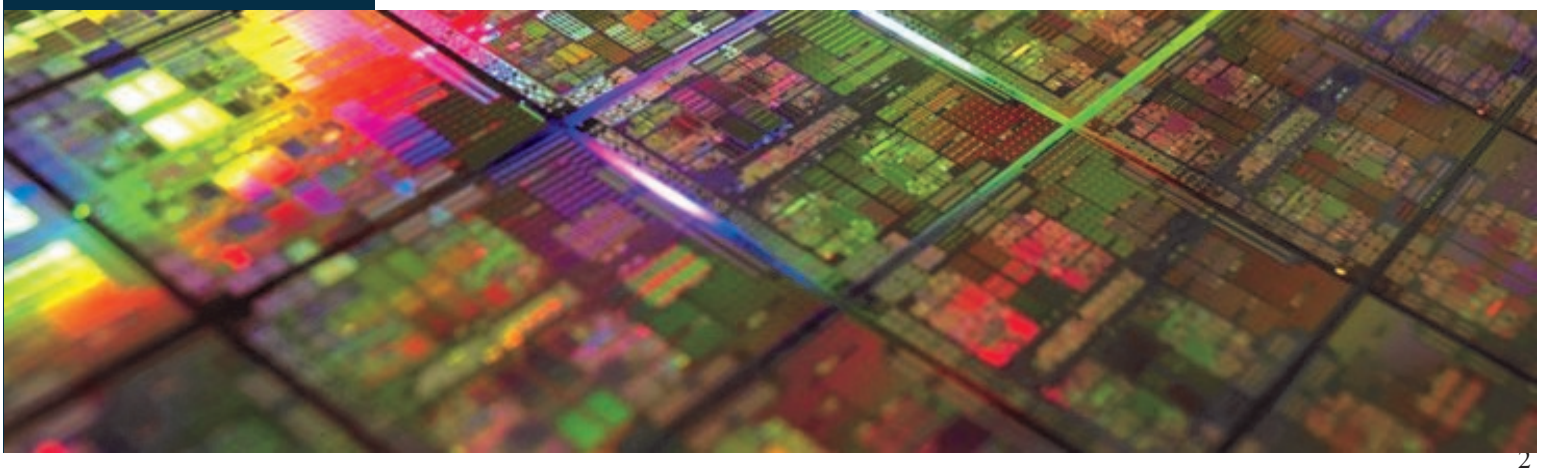


FY17 MPW SCHEDULE

FISCAL 2017 TRUSTED ACCESS PROGRAM OFFICE MULTI PROJECT WAFER SCHEDULE

Tech	Quarter 1 2017			Quarter 2 2017			Quarter 3 2017			Quarter 4 2017		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
14nm	14LPP 17A								14LPP 17B			
32nm										32SOI 17A		
45nm						12SOI 17A						
90nm							9HP 17A					

TAPO FY17 MPW Schedule: The FY17 TAPO MPW schedule is reflective of the various requests received on the TAPO website. If you are interested in a technology or time other than what is listed in this MPW schedule, please submit a Customer Request Form with the process technology and date you are targeting. As always, please see the TAPO website https://www.tapoffice.org for the latest, up to date information.



HEADS UP!
DMEA TAPO Website Requires PKI Certificates

As a part of the transition of the Trusted Foundry Program to DMEA, DMEA TAPO will be establishing a new TAPO website with enhanced security. This new website will only be accessible to users with DoD Public Key Infrastructure (PKI) certificates. We are aware that this is a new requirement for our current users. This article is to give you a heads up on this upcoming change and ensure you are able to obtain the necessary certificates before the DMEA TAPO website goes "live".

Federal employees can obtain the DoD PKI directly from their current government agency or from a DoD approved commercial entity. If you obtained your PKI certificates from an entity other than the US Government, verify with the Certificate Authority (CA) that your certificates are approved by DoD.

Non-Government employees can obtain their certificates from a DoD Approved PKI Vendor. A full list of approved vendors is available at this website: http://iase.disa.mil/pki/eca/Pages/index.aspx. As part of the process, the following are required:

(1) Government sponsorship – the PKI vendor will provide a form for your government sponsor to sign
(2) Appropriate documentation to establish identity – see list below
(3) Fee to obtain PKI certificates

Documentation: The PKI vendor you choose will specify the identification required, but this is a typical list:

U.S. Citizens: One from List A and one from List B or C
OR
One from List B and one from List C

Non-US Citizens: Valid passport **AND** one form of identification from List B

LIST A - *Photo ID Documents that Establish Identity and Citizenship*	**LIST B** - *Photo ID Documents that Establish Identity*	**LIST C** - *Other Documents that Establish U.S. Citizenship but not Identity*
1. Passport from Country of Citizenship	1. Driver's license or government issued ID card containing a photograph	1. Original or certified copy of a birth certificate issued by a state, county, municipal authority, or outlying possession of the United States bearing an official seal
2. Certificate of U.S. Citizenship issued by U.S. Citizenship and Immigration Service, formerly the Immigration and Naturalization Service-USCIS (INS)	2. Military ID with photograph	2. Consular Report of Birth from a U.S. Consulate (Form FS-240)
3. Certificate of Naturalization issued by a court of competent jurisdiction prior to October 1, 1991, or the USCIS (INS), since that date	3. Permanent or Unexpired Temporary Resident Card issued by the USCIS with photograph	3. Certification of Birth Abroad issued by the Department of State (Form DS -1350)

6th NDIA TRUSTED MICROELECTRONICS WORKSHOP

The sixth NDIA Trusted Microelectronics Workshop was held on February 3rd, 2016 at the Lockheed Martin Global Vision Center in Crystal City, VA. Attended by nearly 100 people from government, industry and research institutes, this workshop was designed to provide the industry's perspective on the future of Trusted Microelectronics. The message was encouraging! Highlights included:

Dave Sobczak's keynote address emphasized GLOBALFOUNDRIES US2's (GFUS2) commitment to the Trusted Foundry Program and to the overall growth of its aerospace and defense business. Dave updated the attendees on GFUS2's organizational structure, product offerings, and development activities. He also announced that the company will have a booth at GOMACTech 2016 and will host a Trusted Foundry Advanced Technology Training event in Burlington, VT on May 3rd-4th.

The systems integrators' panel described the importance of having the government's Trust Accreditation activity for system assurance. Pat Hays from Boeing, Mark Porter from General Dynamics, Mitch Meinhold from Lockheed Martin, Charley Adams from Northrop Grumman, and Jessica Denham from Raytheon commented on the benefits of, and challenges with, using Trusted Microelectronics and offered to work more closely with DMEA Trusted Accredited Suppliers.

During the DMEA Trusted Accredited Suppliers panel, the suppliers announced Trusted business growth. Stewart Ocheltree from BAE Systems, Scott Jordan from Jazz Semiconductor Trusted Foundry, Kirk Peterson from ON Semiconductor, and Wayne DeCarlo from Photronics reported increasing interest in, and orders for, Trusted products and services. They highlighted challenges with communications and requirements and committed to working more closely with their customers and government offices to address these issues.

The Trusted Microelectronics Workshops encourage full participation from attendees. Brian Cohen of IDA and Sydney Pope, contractor to DASD(SE), skillfully led engaging discussions on a variety of topics. The next NDIA Trusted Microelectronics Workshop is being planned for Summer 2016.

7th TRUSTED ACCREDITED SUPPLIERS INDUSTRY DAY at GOMACTech 2016

The theme for his year's GOMACTech conference is "More Than Moore and Beyond". The conference will focus on the development of secure and trusted defense systems. Various trust-oriented technical sessions will be featured throughout the event to be held in Orlando, Florida from March 14-17, 2016.

For the seventh consecutive year, the Trusted Accredited Suppliers Steering Group will host a Trusted Accredited Suppliers Industry Day on Monday, March 14th. This full day event will explore the connections between Trusted Microelectronics and network resiliency, systems engineering, and design tools. Harris Corporation's Vice President for Engineering, Critical Networks, Craig Miller, will deliver the keynote address. Department of Commerce's Assistant Secretary for Industry and Analysis, International Trade Administration, Marcus Jadotte will give a talk on the impact of China's activities on the U.S. semiconductor industry. David Pentrack will provide an update on the Trusted Foundry Program and Raytheon's Holly Dunlap will discuss Trusted microelectronics' contribution to systems security engineering and cyber network design.

Panels will feature discussions from government microelectronics experts, cybersecurity engineers from major defense companies, and EDA tools representatives. The day will end with an open discussion forum. We look forward to seeing everyone there.

GLOBALFOUNDRIES ADVANCED TECHNOLOGY TRAINING

NSA TAPO and DMEA TAPO are sponsoring the Annual Trusted Foundry Advanced Technology Training, which will be hosted by GLOBALFOUNDRIES at the Burlington, VT site May 3-4, 2016. Topics will cover Trusted Foundry and ASIC technologies, Engagement Models, MPW Programs and more. Current NDA coverage with GLOBALFOUNDRIES is required for attendance.

Deadline to register for this event is April 1st, 2016 - REGISTER NOW!

Link to registration: https://www.eventbrite.com/e/2016-trusted-foundry-advanced-technology-training-tickets-19619474376

NSC Is Ready To Assist With 14LPP Submission Questions

TAPO is pleased to announce the addition of two MPW runs for GlobalFoundries' 14LPP process to the MPW schedule: 14LPP 16A, closing March 10th 2016, and 14LPP 16B, closing June 1st 2016. For the 14LPP process, please consult the list of software and tool versions below to make sure you have everything required to create a DRC Clean design.

***Calibre version*:**
V2015.1_26.16
See 14LPP-XL_V1.2_3.0_1.0_description.pdf for environmental variables.

***Checks to run*:**

DRC	DRC+
MAS	PERC ESD
Fill	Mx Decomposition

***Files to send to NSC*:**
GDS DRC Logs
Potentially need DRC runsets based on waiver requests
DFM Logs
Waiver request (*template available from NSC*)

Documentation is due to NSC on the run close date

Please send any questions to Alex Stramel (astramel@kcp.com) or Matt Casper (mcasper@kcp.com).

Hail and Farewell

James A. Will II, "Jim"
Jim will support the Trusted Access Program as the NSC's technical lead. He received his BSEE with an emphasis in Semiconductor technology and MS in Materials Science from Rochester Institute of Technology. He has 18 years of experience in the Semiconductor industry, supporting the successful start-up of a new 300mm semiconductor foundry, and was the technical lead introducing sub 100nm technology nodes.

Jerry Torneden
Jerry said good-bye to the Trusted Access Program in October after 8 years of service. He leaves to accept new challenges supporting NSC Defense Programs.

Ashley Tramble
Ashley will support the Trusted Access Program MPW runs through the aggregation process and as a technical interface. She received a BSEE degree from Alabama A&M. She has modeled, fabricated, and tested thin film thermal devices.

Mary Caruso
Mary Caruso is welcomed as NSC's new MPW program manager. Mary brings 25+ years of experience in Integrated Supply Chain and Program Management, 25+ years of management for both Microelectronics and Mechanical Operations, Certification as a Six Sigma Black Belt and Lean Manufacturing, and an MPA from Park University in Government Business.