

August 15, 2017

Ms. Mary J. Miller  
Acting Assistant Secretary of Defense for Research and Engineering  
OUSD AT&L  
3030 Defense Pentagon, Rm. 3E272  
Washington, DC 20301-3030

Dear Ms. Miller,

Virtually every system used for Defense and National Security depends on advanced semiconductor devices. Recognizing this reliance, coupled with trends in the industry towards off-shore suppliers, NDIA organized a series of workshops on assured microelectronics supply and in May 2016 launched the NDIA Trusted Microelectronics Joint Working Group (TM JWG).

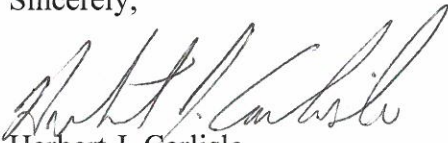
The TM JWG was organized into the following teams:

1. **Future Needs & System Impact of Microelectronics Technologies**, led by Charles Adams, Northrop Grumman Corporation
2. **Trustable Access to Leading Edge Technology**, led by Ezra Hall, GLOBALFOUNDRIES, Inc.
3. **Trustable Microelectronics Standard Products**, led by Kenneth Lebo, Jacobs Engineering Group Inc.
4. **New Methods to Instill Trust in Commercial Semiconductor Fabrication**, led by W. Pat Hays, The Boeing Company

During the study period, the TM JWG membership reached 80 participants from nine government offices, 28 defense companies, and nine non-profit and FFRDC organizations. Our teams analyzed approaches to assure semiconductor availability for defense systems through strategy development, research initiatives, standards participation, demand aggregation, and future requirements integration.

We are pleased to provide the enclosed summary of the effort along with white papers from each team detailing findings and recommendations. Given its importance to the defense industry NDIA expects to continue our efforts in this area.

Sincerely,



Herbert J. Carlisle  
General, USAF (Ret.)  
President and CEO