



Deputy Assistant Secretary of Defense for Developmental Test & Evaluation



J. Brian Hall, Ph.D.
Principal Deputy Director
Developmental Test and Evaluation

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BIOGRAPHY:

Dr. Hall was appointed into the Senior Executive Service in November 2014 as the Principal Deputy Director, Deputy Assistant Secretary of Defense for Developmental Test and Evaluation. Until June 2015 he served as the Principle Deputy Director of the Test Resource Management Center (TRMC). In this position, he led matters concerning the Nation's critical test range infrastructure, science and technology efforts, the development of the Congressionally-directed biennial Strategic Plan for Test and Evaluation (T&E) resources, as well as certification of the Services' T&E budgets.

Prior to this position, Dr. Hall was the Technical Advisor for Operational Test and Evaluation (OT&E) of all Land and Expeditionary Warfare systems in DoD. In this position, he advised the highest authorities in DoD for OT&E, coauthored BLRIPs, worked with the professional staff of the 4 Congressional Defense Committees, shaped operational test plans, and observed operational testing.

Prior to serving on the OSD staff, Dr. Hall was the Division Chief for Aviation, Missiles, and C4ISR Systems in the Army Test and Evaluation Command (ATEC). In this position, he was responsible for supervising the development of test plans and evaluations that directly supported milestone decision reviews of more than 300 defense systems. Dr. Hall was one of the leading reliability experts that helped establish the Center for Reliability Growth at Aberdeen Proving Ground, and developed / administered the ATEC/AMSAA 3-day reliability course.

Over his career, Dr. Hall has led studies, developed methodologies, presented research, published journal articles, crafted policy, and authored policy implementation guides. He has also developed staff, advised numerous defense programs, and served as an executive member of, or invited contributor to: tri-service DoD Blue Ribbon Panels; National Academy of Science studies; or DoD working-groups to improve system reliability.

Dr. Hall is a Senior Service College, and Harvard Senior Executive Fellows graduate. He has earned advanced degrees in Applied Mathematics, Reliability Engineering, and Strategic Studies. He is a domain expert in Reliability Engineering, as well as in Reliability Growth Management and Methodology. He has developed statistical methods and reliability growth models that have been: published in international journals; incorporated into Military Handbooks; adopted by Operational Test Agency policy; and utilized to develop growth plans and assess reliability maturity of numerous defense programs.

Dr. Hall is married to the former Alyson Taylor Moore and they have two sons: James and Brody.

CHRONOLOGY:

- July 2015 – Present, Principal Deputy Director, Developmental Test and Evaluation
- November 2014 – June 2015, Principal Deputy Director, Test Resource Management Center
- February 2012 – October 2014, Technical Advisor, DOT&E, Land and Expeditionary Warfare
- July 2011 – June 2012, Senior Service College Student, U.S. Army War College
- March 2009 – July 2011, Division Chief, Aviation, Missiles, and C4ISR, ATEC-AEC
- February 2007 – March 2009, Team Leader, Soldier Systems, ATEC-AEC
- August 2006 – February 2007, Staffer, Commanding General's Staff, AMC Headquarters
- August 2005 – August 2006, Project Leader, Reliability Growth Analysis, AMSAA
- June 1999 – August 2005, Operations Research and Systems Analyst, AMSAA

DEGREES:

- PhD and MS, Reliability Engineering, University of Maryland, College Park, MD, 2008
- MSS, Strategic Studies, U.S. Army War College, Carlisle, PA, 2012
- MS, Applied Mathematics, Johns Hopkins University, Baltimore, MD, 2002
- BS, Applied Mathematics, Loyola University Maryland, Baltimore, MD, 2000

OTHER TRAINING:

- Harvard University, Senior Executive Fellows Program, Cambridge, MA, 2015
- U.S. Army War College, Advanced Strategic Art Program, Carlisle, PA, 2012
- U.S. Army Management Staff College, SBLM Program, Fort Belvoir, VA, 2004
- U.S. Army Logistics Management College, ORSA MAC Program, Fort Lee, VA, 2000

CERTIFICATIONS:

- Level III, Defense Acquisition, Systems Engineering
- Level III, Defense Acquisition, Test and Evaluation

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS:

- U.S. Army Acquisition Corps
- U.S. Army War College Foundation
- Magna Cum Laude Honor Society
- National Scholars Honor Society of Phi Kappa Phi
- Pi Mu Epsilon Mathematics Honor Society
- Senior Executive Association
- Tau Beta Pi Engineering Honor Society

PUBLICATIONS (LAST 10 YEARS):

- Reliability of U.S. Army Systems, *Master's Thesis*, U.S. Army War College, 2012
- Reliability Growth Planning for Discrete-Use Systems, *IEEE Proceedings of RAMS*, 2011
- Management Metrics for Discrete-Use Systems, *Technometrics*, vol. 52, no. 4, 2010
- New RAM Initiatives in Army Test and Evaluation, *IEEE Proceedings of RAMS*, 2010
- Implementation Guide of U.S. Army Reliability Policy, *ATEC Technical Report*, 2009
- ATEC Policy for Reliability Growth Planning, *ATEC IPG 09-1*, (February) 2009
- Bayesian Methods for Evaluating Reliability Growth, *IEEE Proceedings of RAMS*, 2009
- Methodology for Evaluating Reliability Growth Programs of Discrete Systems, *Doctoral Dissertation*, University of Maryland, College Park, MD, USA, (April) 2008
- An Analytical Framework for Reliability Growth of One-Shot Systems, *Reliability Engineering & System Safety*, vol. 93, no. 11, 2008
- A Reliability Growth Projection Model for One-Shot Systems, *IEEE Transactions on Reliability*, vol. 57, no. 1, 2008
- PM2 Planning Model, *AMSAA Tech. Report No. 2006-9*, 2006
- AMPM based on Stein Estimation, *IEEE Proceedings of RAMS*, 2005
- Drenick's Theorem and Aging of Complex Repairable Systems, *AMSAA Tech. Report 746*, 2004