

MODEL-BASED SYSTEM ENGINEERING

A Workshop Presented by the G-48 System Safety Committee
to Explore

MBSE Concepts and Considerations for System Safety and Software Safety
in Modern Complex Programs

Introduction by
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Chair, G-48 System Safety Committee

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ABOUT THE G-48 COMMITTEE

- Founded in 1966 under (then) the Electronics Industries Association (EIA)
- Currently a part of the new Systems Management Council of SAE International
- Membership includes System Safety experts from Industry, Military, Civilian Government, and Liaison Organizations
- Meets 3x/year:
 - Winter, during Reliability and Maintainability Symposium (RAMS)
 - Spring, virtual meeting (usually)
 - Summer, during International System Safety Conference (ISSC)



ABOUT THE G-48 COMMITTEE (CONT.)

- Mission Statement:

We promote the development of safe systems, products, and processes by compiling, developing, improving and publishing best practices in the discipline of System Safety.

- Scope:

Our work in System Safety best practices:

- Is not exclusive to any one domain
- addresses hardware, software, human, and environmental aspects of systems
- applicable to government, commercial, military, aerospace, transportation, industrial, and the medical field, to name a few
- does not cover commercial aviation

ABOUT THE G-48 COMMITTEE (CONT.)

- Other Activities:
 - Publisher of GEIA-STD-0010, “Standard Best Practices for System Safety Program Development and Execution” (original issue – 2008; Rev. A pending)
 - Annual Panel at ISSC: “The Most Pressing Issues Facing System Safety”
- Previous Workshops:
 - Risk Summation
 - Performance Level Model
 - Safety Case Methodology

WORKSHOP FACILITATOR

BARRY L. HENDRIX

- Mr. Hendrix served 10 years in the U.S. Navy as an aviation fire control/weapons delivery specialist with attack squadrons aboard aircraft carriers
- Retired from Lockheed Martin as Fellow Emeritus for System Safety
- With A-P-T Research since 2015
- Has specialized in software safety on system of systems since 1984
- Fellow Member of the International System Safety Society (ISSS)
 - Former President of the North Texas Chapter
 - Past Director of Members Services
 - Awarded the ISSS Manager of the Year in 2001
 - Chaired the International System Safety Conference (ISSC) in Atlanta in 2012

