

12 February 2020

**NDIA Systems Engineering Division Meeting
Environment, Safety, and Occupational Health
(ESOH) Committee Report**

**Industry Chairs: Mr. Tim Sheehan, Raytheon Corporation [NEW]
and Mr. David Schulte, SAIC**

Government Liaison: Mr. Sherman Forbes, SAF/AQRE

Status Update



2020 Tasks	Status	Accomplishments (deliverables, etc.)
<p>1. Further demonstrations of NAS411-1 SysML HAZMAT Library for MBSE</p> <p>Background: Developed Hazardous Materials (HAZMAT)/National Aerospace Standard (NAS) 411-1 SysML Model Library for MBSE environment. Held demonstration and briefing with Boeing and SAF/AQRE / DASD(S) representatives in summer 2019. Both were well received.</p>	In Progress	<ul style="list-style-type: none"> • HAZMAT SysML Model Library provided to Boeing to use in a pilot use case to evaluate its utility • Coordinating with Raytheon to demonstrate library and provide as another pilot use case opportunity. • Interested Industry representatives are invited to participate in additional Library pilot use cases
<p>2. Obtain Aerospace Industries Association (AIA) approval to provide HAZMAT Library with National Aerospace Standard (NAS) 411-1, Hazardous Material Target List (HTML)</p>	In Progress	<ul style="list-style-type: none"> • Continue engaging with AIA NAS411 Working Group Leads (including Mr. Sheehan) to solicit AIA's adoption of the Library and making it available as part of NAS 411-1 purchase
<p>3. Work with DoD Acquisition ESOH IPT on adding Systems Engineering and ESOH risk and requirements management to new DoD 5000 series policy documents</p>	In Progress	<ul style="list-style-type: none"> • Ongoing activity in collaboration with ODUSD (Sustainment) review and comment process to try to ensure ESOH risk and requirements management are in the DoD 5000 series instructions. <ul style="list-style-type: none"> ○ DoDD 5000.01, Defense Acquisition System (DAS) ○ DoDI 5000.02, Operation of the Adaptive Acquisition Framework (AAF) ○ DoDI 5000.02T, Operation of the Defense Acquisition Framework, Transitional ○ 6 AAF "Pathway" DoDI 5000,xx documents ○ 15 Functional DoDI 5000.xx documents
<p>4. Increase NDIA Industry involvement in the ESOH Committee</p>	In Progress	<ul style="list-style-type: none"> • Added second Industry co-chair, Mr. Tim Sheehan of Raytheon • Reaching out to increase industry ESOH functionals participation through the NDIA SED industry participants

ESOH Committee Meeting Information



- **Date:** February 12, 2020
- **Time:** 1430 – 1600 EDT
- **Location:** Booz Allen Hamilton, 1550 Crystal Drive, Arlington-Crystal City, Room 4508 (4th floor), 3rd Floor (check-in and badge), POC: Karen Gill
- **Call-in Number:** 877-885-1087; Access Code 7706930636#
- **Web Link:** [NDIA ESOH Committee Meeting](#)
- **Agenda:**
 - NDIA Systems Engineering Division – ESOH Committee Report
 - "Safe from the Start: Using MBSE for Safety Engineering" presented by Kate Kovalovsky and Daisey Bower from USARMY Combat Capabilities Development Command, Armaments Center (CCDC AC)
 - Status Update on DoDI 5000 series
 - NDIA Systems & Mission Engineering Conference, Orlando FL, October 19 -22 2020
 - ESOH Track will focus on National Environmental Policy Act (NEPA), System Safety, Airworthiness, Hazardous Materials, and ESOH in Digital Engineering/Model-Based Systems Engineering
 - NOTE: GBSD Program Office identified NEPA compliance one of top 3 program risks

Environment, Safety, and Occupational Health (ESOH) Committee



Mission / Purpose

Mission: Integrate ESOH design considerations into the Systems Engineering (SE) process

Purpose: Reduce ESOH mishaps and impacts on systems' suitability and effectiveness

Leadership:

Industry Co-Chairs: **Tim Sheehan** & David Schulte

Government Liaison: S. Forbes

Stakeholders / Sponsors / Collaborators

Primary stakeholders: DoD and Defense Industry Systems Engineers and ESOH functionals

Government sponsors: DoD Acquisition ESOH IPT

Collaborating organizations: Aerospace Industries Association (AIA)

2019 Accomplishments

2019 Accomplishments: Developed Hazardous Materials (HAZMAT) SysML Model Library based on AIA National Aerospace Standard 411-1, "HAZMAT Tracked List," importable to Model Based Systems Engineering (MBSE) tools

2019 Events: Demonstrations of HAZMAT Library to Boeing, AF, DUSD (Sustainment); ESOH Track at the NDIA S&ME Conference - 19 presentations

2019 Publications: NA

2020 Plans / Events / Milestones

2020 Planned Activities: Further demonstrations of HAZMAT Library; Obtain AIA approval to provide HAZMAT Library with NAS 411-1; Work with DoD Acquisition ESOH IPT on adding SE and ESOH requirements to new DoD 5000 documents; Increase NDIA Industry involvement

2020 Planned Events: ESOH Committee Meetings and ESOH Track at NDIA S&ME Conference

2020 Planned Publications: NA

2020 Milestones: Planned Activities