

17 June 2020

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

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

Government Liaison: Mr. Sherman Forbes, SAF/AQRE

NDIA SED ESOH Committee Status Update



2020 Tasks	Status	Accomplishments (deliverables, etc.)
<p>1. Further demonstrations of NAS411-1 SysML HAZMAT Module for MBSE</p> <p>Background: Developed Aerospace Industries Association (AIA) National Aerospace Standard (NAS) 411-1/Hazardous Materials (HAZMAT) SysML Module for MBSE tools. 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"> • NAS411-1 HAZMAT SysML Module provided to Boeing to evaluate its utility. Met with Boeing representatives, including the Chair of the AIA HAZMAT Committee responsible for NAS411 and NAS411-1 on April 16. Received positive feedback and a couple suggestions for improvement. Continuing to work with Mr. Sheehan to have Raytheon evaluate the module's usefulness, • Interested Industry representatives are invited to participate in additional Library pilot use cases
<p>2. Obtain Aerospace Industries Association (AIA) approval to provide HAZMAT SysMIL Module software with National Aerospace Standard (NAS) 411-1, Hazardous Material Target List (HTML)</p>	In Progress	<ul style="list-style-type: none"> • Continued engagement with AIA and Mr. Sheehan to solicit AIA's adoption of the SysMIL module and making it available as part of NAS411-1 purchase. • Held DoD-AIA NAS411 virtual meeting on 28 April 20. • Review of NAS411 Rev 4 and 411-1 Rev 2 in process with DoD-AIA NAS411 Working Group. Anticipate publication of the updates in fall 2020.
<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 (Still waiting on Major Capability Acquisition) ○ 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:** June 17, 2020
- **Time:** 1400 – 1600 EDT
- **Location:** Virtual APAN web-meeting
- **Call-in Number:** 1-800-300-3070 or 540-443-6236
- **Access code:** 642 201 706 #
- **Web Link:** [NDIA ESOH Committee Meeting](#)
- **Agenda:**
 - NDIA Systems Engineering Division – ESOH Committee Report
 - NDIA Systems & Mission Engineering Conference, Orlando FL, October 19 - 22 2020, Renaissance Orlando at SeaWorld
 - Streamlining NEPA, Jennifer Warf & Brian Boose, AECOM

ESOH Track Abstracts to Date



Count	Abstract	Paper Title	Author
1	23197	Environment, Safety, and Occupational Health (ESOH) in the Adaptive Acquisition Framework	D. Asiello
2, 3, 4	23200	PANEL: Department of the Navy Initiatives to Expedite NEPA Reviews	R. Lamb
5	23212	Lockheed Martin's Chemical Stewardship Program: Reducing Risk through the Sustainable Management of Chemical Substances and Materials	M. Proul
6, 7, 8	23226	PANEL: Answering the Ask through Imagination: NEPA Process Streamlining Innovations	B. Boose
9	23194	Unmanned System (UxS) Safety IPT and Engineering Precepts for Safe Autonomy	M. Demmick
10	23184	ESOH Track - Integrating ESOH Engineering And Product Support Activities	E. Beck
11	23178	Evaluating Potential Impacts to the DoD Mission and the Defense Industrial Base from Emerging National and International Chemical Regulations	D. Rak
12	23313	Addressing Environment, Safety, and Occupational Health in the Adaptive Acquisition Framework	S. Forbes
13	23331	Abstract Title: Model Based Systems Engineering Library – The National Aerospace Standard 411-1 Hazardous Materials Target List	L. Hales/J. Gallagher or K. Downey
14	23351	F-35 Joint Program Office and Support Team - Environmental Excellence in Weapons System Acquisition	B. Thrasher
15	23372	Ground Based Strategic Deterrent (GBSD) Program Office National Environmental Policy Act (NEPA) Compliance Perspective -- High Risk Management	S. Dore

ESOH Track Abstracts to Date



- **In portal - Submitted to other tracks - May include in ESOH Track as well**

Count	Abstract	Paper Title	Author
1	23227	Multicore Processor Risks to Safety Significant Software Applications Software Intensive Systems	R. Alex
3	23233	Formal Inconsistencies in Risk Assessment Processes	Dr A. Salado
4	23344	Achieving Airborne System Airworthiness In a Landscape of Disruptive Technologies and Diverse Regulatory Objectives Program Management	T. Stempel
5, 6, 7	23352	PANEL: Building Safety into Autonomous Robot Software Intensive Systems	D. Hetherington