

**August 15, 2018**

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

# Status Update



2018 Tasks	Status	Accomplishments (deliverables, etc.)
1. Clarify critical misunderstandings of SE ESOH management requirements: (1) ESOH compliance and risk management (2) ESOH risk reporting at technical & program reviews/fielding decisions (3) Why ESOH "residual" risk concept eliminated in 2012 (4) ESOH risk acceptance for systems in sustainment	On Hold	DoD and Services Emphasis on Prototyping, Rapid Prototyping, and Rapid Fielding includes: 1. Elimination or streamlining of compliance with DoDI 5000.02. 2. Emphasis on cost, schedule, and performance risk management. 3. Lack of clarity on expectations for management of ESOH risks and requirements, even though failure to effectively manage ESOH will impact cost, schedule, and performance risks.
2. Determine the minimum set of ESOH management data necessary to support successful prototyping, rapid prototyping, and rapid fielding activities.	In Progress	Key efforts: 1. Working Hazardous Materials (HAZMAT) management guidance in concert with AIA efforts with the International Aerospace Environmental Group (IAEG) developing a materials and substances declaration process. 2. Draft Guide on using MIL-STD-882E for HAZMAT risk management provided to NAS411 Working Group (WG). <b>Feedback from WG requested by 20 Aug.</b> 3. Looking to establish severity categories for chemicals on the AIA-DoD Hazardous Materials Target List (NAS411-1). <b>AIA-DoD NAS411 Face-to-Face meeting held 23 July to begin considering adoption of the NAVSEA assignment of MIL-STD-882E System Safety severity categories to Hazardous Materials (HAZMAT) to facilitate risk assessments of HAZMAT applications by allowing programs to focus on exposure probabilities of HAZMAT applications.</b> 4. DoD Acquisition ESOH IPT agreed at 31 May meeting to form a sub-IPT to look at a construct for tailored ESOH requirements for Middle Tier of Acquisition. <b>First meeting held on 6 Aug to discuss approach.</b>
3. Assess how to include ESOH compliance requirements and risk data in Digital Engineering (DE) models	In Progress	<ul style="list-style-type: none"> <li>• Reaching out to Modeling Simulation Committee.</li> <li>• Participating in OSD/Service Digital Engineering Working Groups.</li> <li>• Participating in NDIA SE Division Mission Engineering Initiative.</li> <li>• <b>Participating in Digital Engineering Information Exchange Working Group (DEIXWG) - Attended Inaugural Meeting on 9 Jul.</b></li> </ul>
4. ESOH Committee Meetings	In Progress	<ul style="list-style-type: none"> <li>• Holding ESOH Committee meeting this afternoon.</li> <li>• Committee meeting to follow each SE Division meeting.</li> </ul>
5. NDIA SE Conference ESOH Track	In Progress	<ul style="list-style-type: none"> <li>• <b>18 abstracts for the ESOH track. Mr. Gold of ODUSD(R&amp;E) and Mr. Asiello of OASD(EIE) key note presenters.</b></li> </ul>

# Proposed ESOH Track – SE Conference



Abstract #	Abstract Title	Presenter
21537	Digital Engineering	Mr. Robert Gold
21355	Streamlining ESOH in Acquisition: What's on the Horizon?	Mr. David J Asiello
21380	Adapting ESOH Risk Management for Rapid Prototyping and Rapid Fielding Programs	Ms. Karen Gill & Ms. Lori A Hales
21312	Leveraging Industry Standards and Tools in ESOH Risk Management	Ms. Yvonne Pierce Mr. Tim Sheehan
21414	Naval Sea Systems Command's (NAVSEA) Approach for Managing the Risk of Hazardous Material Usage in New Acquisition	Ms Jessica Klotz
21420	Use of Draft MIL-STD-882E, Task 108, to Prohibit & Eliminate Cr6+	Mr. Gene B McKinley
21393	An Impact Assessment of the American Conference Governmental Industrial Hygienists 2018 Chromium TLV on Naval Operations	Mr. Mark Conlon CIH
21412	Leveraging System Safety to Improve System Security	Ms. Melinda K Reed
21313	MIL-STD-882E Revised Level of Rigor	Mr. Doug Peterson
21310	Verifying Software Control Categories (SCCs) Using Quantitative Fault Tree Analyses (FTAs)	Mr. Robert E Smith Jr
21429	The Supporting Acquisitions Strategic Objective: APHC Initiatives	Dr. Timothy A. Kluchinsky Jr.
21434	Assessing Acoustic Energy in support Army Modernization	Ms. Olivia H. Webster
21394	APHC support to the ALU CDC and JCIDS Processes	Mr. Robert G. Booze
21358	Revolutionizing Environment, Safety, and Occupational Health (ESOH) in Systems Engineering to Meet Rapid Prototyping/Fielding Under the Middle Tier of Acquisition	Ms. Corey Pressley Plakos
21549	Unmanned System (UxS) IPT and Engineering Precepts for Safe Autonomy	Mr. Michael H Demmick Mr. Jeff Fornoff
21343	Operationalizing the Munitions Risk Management Assessment Process	Mr. Mark Peterson Mr. John Lenox
21285	Environmental Life Cycle Assessment of Commercial Space Transportation Activities in the U.S.	Dr. Shelia S Neumann
21326	ESOH Risk Management in Middle Tier Acquisition	Mr. Sherman G Forbes

# ESOH Committee Meeting Information



- **Date: August 15, 2018**
- **Time: 1430 - 1600**
- **Location: Booz Allen Hamilton, 1550 Crystal Drive, Arlington-Crystal City, 11th Floor (check-in and badge), 5<sup>th</sup> Floor – Room 5006 (for meeting; seating is limited), POC is Karen Gill**
- **Call-in Number: 877-885-1087; Access Code 8078961500#**
- **DCS Link: <https://conference.apps.mil/webconf/NDIAESOHcommittee>**
- **Meeting Agenda:**
  - "Integrating DoD Explosives Safety Requirements into DoD Policies and Processes" by David Schulte, SAIC
  - "DoD Environmental Sustainability Initiative Status" by David Asiello, USD (A&S)/EI&E
  - "EU REACH Hazardous Materials Regulations and Occupational Health Regulations" by Tim Sheehan, Regulatory and Risk Manager, Raytheon Company

# ESOH Committee - 2018 Task Plan



## 2018 Tasks:

1. Clarify critical misunderstandings of SE ESOH management requirements: (1) ESOH compliance and risk management, (2) ESOH risk reporting at technical & program reviews/fielding decisions, (3) Why ESOH “residual” risk concept eliminated in 2012, and (4) ESOH risk acceptance for systems in sustainment.
2. Determine the minimum set of ESOH management data necessary to support successful prototyping, rapid prototyping, and rapid fielding activities.
3. Assess how to include ESOH compliance requirements and risk data in Digital Engineering (DE) models
4. ESOH Committee Meetings
5. NDIA SE Conference ESOH Track

## Deliverables / Products:

1. TBD, possibly a Communication Plan
2. Publish the recommended information for DoD and industry use
3. Case studies/lessons learned from programs using DE and including ESOH hazard data in the model
4. Quarterly ESOH Committee Meetings
5. ESOH Track at the NDIA Annual SE Conference

## Schedule / Resources:

1. ECD September 2018 / OASD(EI&E)/ESOH, DoD ACQ ESOH IPT, and other NDIA SED committee members
2. ECD September 2018 / OASD(EI&E)/ESOH, DoD ACQ ESOH IPT, and other NDIA SED committee members
3. ECD September 2018 / DoD ACQ ESOH IPT, AIA, NDIA M&S Committee, Industry, & other NDIA SED committee members
4. Bi-monthly meetings in 2018 with the NDIA SED meetings / DoD and Industry Participants
5. ECD October 2018 / Government and Industry Participants

## Issues / Concerns:

1. Challenging to communicate effectively to all levels of DoD and industry / funding, timing, and availability of staff
2. Challenging to communicate effectively to the target audiences / funding, timing, and availability of staff
3. Identifying programs using DE with ESOH integrated into the model that would be willing to participate / funding, timing, and availability of staff
4. Availability of participants and value added meetings
5. Recruiting presenters