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

## Division Planning Meeting
### 6 December 2017

Industry Chair: Mr. David Schulte, SAIC

Government Liaison: Mr. Sherman Forbes, SAF/AQRE

# ESOH Committee Task Status

**NDIA**

| 2017 Tasks | Status | Accomplishments (deliverables, etc.) |
|---|---|---|
| 1. Assess application of MIL-STD-882E, NAS411 & NAS411-1, and Logistics Product Data (LPD) for environmental liabilities audit reporting for weapon systems | Completed | • Presented to the DoD Comptroller Office and Auditors the proposed methodology for determining Environmental Liabilities based on the use of Disposal Sites' Work Breakdown Structure analysis of potential HAZMAT costs to develop cost factors for the different types of DoD systems |
| 2. Evaluate inclusion of ESOH risks and requirements in MBSE/Digital Engineering | On going | • Held preliminary discussion with Pratt & Whitney regarding MBSE/Digital Engineering efforts to manage HAZMAT in repair maintenance of parts<br>• Held preliminary discussions with Magic Draw SMEs to understand how HTS data can be incorporated into the model<br>• The ESOH Track at the 2017 NDIA SE Conference had three presentations on Digital Engineering |
| 3. Update NAS411 and NAS411-1 to align language & AD-DSL, and continue with HAZMAT Risk Management Guidance | Completed | • NAS411 and 411-1 adopted by DoD and posted on ASSIST.<br>• Revised draft HAZMAT RM Guidance completed and under review by NAS411 WG<br>• This will be an ongoing process with target of update to NAS411-1 every two years |
| 4. ESOH Committee Meeting | Completed | • ESOH Committee meetings were held after the SED meetings |
| 5. NDIA SE Conference ESOH Track | Completed | • The ESOH Track had 23 presentations, two panels sessions, and one Tutorial on Software System Safety |

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# ESOH Committee - 2018 Task Plan

**NDIA**

## 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