Acquisition ESOH:

Current Initiatives & The Way Ahead

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# Acquisition ESOH: Current Initiatives & The Way Ahead

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Goals of Acquisition ESOH

Support the warfighter and DoD’s mission

- Prevent loss of life or serious injury to personnel
- Avoid damage to facilities or equipment
- Prevent harm to the environment and the surrounding community
- Avoid system failures that negatively impact mission capability or mission operability
Policy & Guidance

- DoD Directive (DoDD) 5000.01, The Defense Acquisition System (May 12, 2003)
- DoD Instruction (DoDI) 5000.02, Operation of the Defense Acquisition System (December 08, 2008)
- Acquisition Community Connection, ESOH Special Interest Area, https://acc.dau.mil/esoh
Policy
(DoDI 5000.02, E12.6)


- The PM must report the status of all High and Serious ESOH risks and applicable ESOH Technology Requirements for program reviews and fielding decisions

- Prior to exposing people, equipment, or the environment to a known system-related ESOH hazards,
  - Risks must be accepted by the appropriate authority
  - User concurrence for High and Serious risks.
Defense Acquisition Management System

User Needs

Strategic Guidance  Joint Concepts  Capabilities-Based Assessment  ICD  MDD  Materiel Solution Analysis  Technology Development  CDD  Engineering & Manufacturing Development  CPD  Production & Deployment

O&S

Incremental Development

OSD/JCS  COCOM

JCIDS Process

Acquisition Process

ESOH Considerations Need to Span Life Cycle
Current Initiatives

- Educate ESOH workforce to reinforce and standardize early integration of ESOH into SE
- Environmental Sustainability Criteria used for decision making
- Expanded use of DFAR Clauses
- Update to MIL-STD-882D
- Acquisition Documentation Streamlining Task Force (ADS TF)
- Participation in Program Support Reviews
Workforce Education

CLR 030, ESOH in Joint Capabilities Integration & Development System (JCIDS)

♦ Developed training to support ESOH SME participation
♦ Issue JCIDS ESOH Policy under development
   » ESOH Senior Leadership endorses all JCIDS documents
     • ESOH communities have opportunity to provide inputs
     • Raise awareness with leadership
     • DoD Components establish internal processes
Workforce Education

CLE 009, System Safety in Systems Engineering

- Overhauling entire course
- Renaming to ESOH in Systems Engineering
- Linking training to ESOH in JCIDS Course
- Updating terminology
- Making current with new Acquisition Integrated Framework Diagram and SE V-charts
- Incorporating lesson on risk management and risk reporting process
Factoring Sustainability into Acquisition Programs

- Tool to help field, maintain, and upgrade weapons systems more rapidly and economically

- Identify sustainability factors to be considered and the appropriate decision point:
  - Use physical, chemical, and toxicity data to make smart choices
  - Possible weighting or scoring system for alternatives
  - Provide examples of the types of life cycle costs that need to be considered

- Develop “Sustainability in Acquisition” guidance

- Construct training module
Mimimizing Use of Hexavalent Chromium
DFARS Case 2009-D004

- Published in Federal Register (April 8, 2010)
- Comment period ended (June 7, 2010)
- Anticipate publication (Summer 2011)
Update to MIL-STD-882D

Government Working Group resolving how to incorporate

- Industry comments
- Government comments
- DASD(SE) guidance

Focus: providing a generic hazard management standard that can be used by multiple functional areas

ECD: Winter 2011
**Acquisition Documentation Streamlining (ADS) Task Force (TF)**

- Directed by PDUSD(AT&L)
  - Document owners manage efforts for their documents based on ADS TF recommendations.

- **Goal:**
  - Streamline content in acquisition documentation and increase value to organizations / decision makers.
    - Acquisition documents will be reviewed, streamlined or, where feasible, eliminated
    - Required reports will also be reviewed
    - The value and utility of all reports will be re-assessed
DUSD(I&E) Recommendations to ADS TF

- **Remove ESOH from Acquisition Strategy (AS)**
  - AS should focus on acquisition strategy and acquisition plan content
  - PESHE contains the necessary information

- **Integrate entire PESHE versus a summary into Systems Engineering Plan (SEP)**
  - ESOH is a Systems Engineering design consideration
  - Long-term goal has been to incorporate ESOH in Acquisition as early as possible in the system life cycle to impact system design
  - SEP is required at MS A, B, and C
Outcomes from ADS TF

- AT&L issued “Expectations Memo” on 20 April 2011
  - Finalizes the recommended policy changes
    - AS: No longer needs an ESOH summary or NEPA Compliance Schedule
      - Streamlines acquisition process
    - PESHE: will be an attachment (hotlink) to SEP
      - ESOH planning will need to occur at MS A
    - Designated Component Acquisition Executive (CAE) as the approval authority for the PESHE for ACAT I programs
      - Now, document must be approved by more than PM
      - Similar action for Corrosion Control Plan & Item Unique Identification (IUID) Implementation Plan
    - Incorporate updates into DoDI 5000.02, Operation of the Defense Acquisition System, and the Defense Acquisition Guidebook
Program Support Reviews (PSRs)

Office of the Deputy Assistant Secretary of Defense (Systems Engineering) DASD(SE), leads PSRs

- Mandated by DoDI 5000.02
- Provides a Systems Engineering Focused Review
- Examines multiple aspects of Program
- Supports Defense Acquisition Board Decisions

ODUSD(I&E) is providing ESOH Subject Matter Experts and coordinating with DDR&E
Participation in PSRs

- Validate program compliance
  - Determine accuracy of PESHE and fill in unknowns

- Assess effectiveness of Acquisition ESOH policy
  - Re-enforce reporting of High and Serious category ESOH risks
  - Compliance with ESOH technology requirements
  - DDR&E prefers this approach

- Work closely with program teams
  - Provide ESOH guidance and direction
  - Educate the work force
  - Establish an “ESOH network”
Example PSR ESOH Findings/Issues

- PESHE does not describe actual ESOH program execution
- Program Office ‘System Safety’ and ‘ESOH’ efforts not integrated
- Lack of emphasis on implementing ESOH mitigations
- Failure to address USD (AT&L) policy on Cr⁺⁶
- ESOH risk data and technology requirements not in PESHE
- Risk data does not encompass all aspects of the system
- Risk data is not readily accessible by program office
The Way Ahead

 Policy and Guidance

- Support Implementation of ADS TF policy changes
- Update 5000.02 and Defense Acquisition Guidebook
  » Incorporate hexavalent chromium policy requirements
- Develop guidance for PESHE documents

 Improve effectiveness of the workforce

- Complete Overhaul of CLE 0009 (August 2011)
- DAU Course on using Environmental Sustainability Criteria for decision making

 Support Program Support Reviews

- Augment with ESOH Subject Matter Experts
BACKUP SLIDES
Workforce Education

Timing - CLE 009, System Safety in Systems Engineering

♦ January – June
  » Finalize content & develop storyboards
  » Course computer programming
  » Develop Draft course

♦ June - August
  » ESOH SME review & comment on draft

♦ Mid-June – July
  » Incorporate comments and complete course
  » Final QA
  » Handover to DAU