Acquisition Environment, Safety, and Occupational Health (ESOH)

Follow Through After the Policy is Printed – ESOH in Acquisition

NDIA 2010 Systems Engineering Conference
October 27, 2010

Mr. David Asiello
Office of the Deputy Under Secretary of Defense
(Installations & Environment)
Outline

- Acquisition ESOH Mission
- The Policy
- Traditional Oversight
- Current Initiatives
- Path Forward
Acquisition ESOH Mission

As part of sustaining its mission DoD is committed to avoiding

- Loss of life or serious injury to personnel
- Damage to facilities or equipment
- Harm to the environment and the surrounding community
- System failure with adverse impact on mission capability or mission operability

“The mission of the Department of Defense is to provide the military forces needed to deter war and to protect the security of our country.”
**ESOH Acquisition in Policy**

To accomplish our ESOH mission

- Use the System Safety methodology across ESOH disciplines to identify hazards and mitigate risks through the systems engineering process
  - ESOH refers to all individual, but interrelated, disciplines that encompass environment, safety, and occupational health
- Work throughout the Acquisition Life cycle / Framework
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.
Policy Memo: Minimizing the Use of Hexavalent Chromium

…the Program Executive Office (PEO) or equivalent level, in coordination with the Military Department’s Corrosion Control and Prevention Executive (CCPE), to certify there is no acceptable alternative to the use of Cr6+ on a new system.”
Traditional Oversight

Document “Review-Centric” Approach

- Programmatic Environment, Safety, and Occupational Health Evaluation (PESHE)
- Acquisition Strategy (AS)

Pentagon Level Meeting Participation

- Overarching Integrated Product Team (OIPTs)

Weaknesses – Limited:

Insight into Implementation Effectiveness
Ability to Impact Early Decision Making
ESOH needs to be a consideration from conception to disposal
Current Initiatives Target the Entire Life Cycle Framework (1 of 2)

- ESOH in Joint Capabilities Integration & Development System (JCIDS)
- Environmental Sustainability Criteria used for decision making
Current Initiatives Target the Entire Life Cycle Framework (2 of 2)

- Expanded use of DFAR Clauses
- Expanded review of documentation
- Participation in Program Support Reviews
Program Support Reviews (PSRs)

Office of Director of Development, Research and Engineering (DDR&E) 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”
Participation
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
- ESOH risk data and technology requirements not in PESHE
**Path Forward**

- Implement a Five Year Strategy
- Continue to influence programs via oversight
- Improve effectiveness of the workforce
  - Education

**Program resources**

- Continue to provide ESOH Subject Matter Experts for PSR’s

**Address root cause issues to ESOH risks**

- Policy and Guidance
  - Improve content and timing of the PESHE
  - Incorporate into SEP, etc.

- Work with DDR&E/SE to integrate ESOH design considerations earlier in the acquisition / SE process
BACKUP SLIDES
ESOH in JCIDS

ESOH Senior Leadership endorses all JCIDS documents
- ESOH communities have opportunity to provide inputs
- Raise awareness with leadership
- MILDEP’s to set up internal process

Developing training to support ESOH SME participation

Issue JCIDS ESOH Policy
- USD(AT&L) memo is ready to enter formal staffing
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
Expanded Use of Defense Federal Acquisition Regulation (DFAR)

EXAMPLE:

Minimizing Use of Hexavalent Chromium (DFARS Case 2009–D004)

Published in Federal Register April 8, 2010
Expanded Review of Documentation

In addition to PESHE and AS, reviewing

- Analysis of Alternatives
- Technology Development Strategy
- Systems Engineering Plan
- Life Cycle Sustainment Plan

More effectively influencing the Systems Engineering process
Program Support Reviews (PSRs)

Office of Director of Development, Research and Engineering 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