Acquisition Environment, Safety, and Occupational Health (ESOH) – ODUSD(I &E) Role and Activities

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Mr. David Asiello
Acquisition ESOH
Office of the Deputy Under Secretary of Defense (Installations & Environment)
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ODUSD(I&E) Role in Acquisition

• DAB/ITAB Special Advisor for ESOH issues
• Oversight of ACAT 1D, IAM, and Special Interest programs
• Focus on DoD 5000 -- ESOH in acquisition policy development
• Develop guidance for acquisition ESOH policy
• ESOH input to CJCS 3170.01 series - JCIDS
ODUSD(I&E) Role in Acquisition

• Chair DoD Acquisition ESOH IPT
  – Consensus on ESOH policy and guidance
  – Influence NSS Acquisition Policy and JCIDS

• Member of the Defense Acquisition Policy WG
  – DoDI 5000.2 and Defense Acquisition Guidebook
  – Acquisition Community Connection site

• Member of Defense Safety Oversight Council
  – Co-chair DSOC Integration Group
  – Acquisition and Technology Programs Task Force
ODUSD(I&E) Perspective

• Why be concerned with ESOH in Acquisition?
• ESOH considerations affect the operational effectiveness and sustainability of the system
  – There is a relationship between the natural infrastructure and the military mission
  – Compliance requirements and encroachment influence how DoD maintains and trains with the system
  – System design, operation, and maintenance parameters determine the installation and workforce needs to train and maintain the system
• The goal is to identify life-cycle ESOH risks early and influence system design, not address them afterwards as operational considerations

• E, S, and OH considerations are inter-related and should be assessed holistically

• ESOH hazards and associated risks are best managed using a structured analytical process

• System design is most effectively influenced through the system engineering (SE) process
ODUSD(I&E) Perspective

• ESOH risks include:
  – Hazardous materials and wastes
  – Environmental and occupational noise
  – Personnel safety and occupational health
  – Regulatory compliance
  – System safety and explosives safety

• Need to manage ESOH risks associated with:
  – Routine operation and maintenance of the system
  – System failures
  – ESOH compliance requirements
ESOH Policy Requirements

• Top level principles:
  – Address safety throughout the acquisition process
  – Use a total systems approach to minimize or eliminate characteristics that produce environmental, safety or health hazards, where practicable and cost effective
  – Use the system safety methodology to minimize ESOH hazards where possible and manage ESOH risks where they cannot be eliminated
  – Accept risks at designated management level
  – During system design, document HAZMAT in the system and plan for demilitarization/disposal
ESOH Policy Requirements

• Programmatic ESOH Evaluation (PESHE)
  – Updated at major milestones and must document:
    • Strategy for integrating ESOH considerations into the systems engineering process
    • Identification of ESOH responsibilities
    • Identification of ESOH risks
    • Method for tracking progress in the management and mitigation of ESOH risks
    • NEPA/EO 12114 Compliance Schedule
ESOH Policy Requirements

• USD(AT&L) Memorandum, Defense Acquisition System Safety, 23 September 2004
  – DoD Standard Practice for System Safety, MIL-STD-882D, must be used in all developmental and sustaining engineering activities
  – ESOH risk status and acceptance decisions must be reported at technical reviews and in the Program Review Process
• USD(AT&L) Memorandum, Reducing Preventable Accidents, 21 November 2006
  – All Acquisition Program reviews and fielding decisions must address the status of each High and Serious ESOH risks, and compliance with applicable safety technology requirements (e.g. IM, MFOQA)
  – PMs will support system-related Class A and B mishap investigations by providing analyses of hazards that contributed to the mishap and recommendations for materiel risk mitigation measures, especially those that minimize human errors
ESOH Policy Requirements


- Clarifies system-related ESOH risk acceptance requirements:
  - Formal acceptance of ESOH risks prior to exposing people, equipment, or the environment to a known system-related ESOH hazard
  - User representative to be part of the ESOH risk acceptance process and must formally concur with all Serious and High ESOH risk acceptance decisions
Acquisition ESOH Activities

- Program Oversight and Assistance
- Policy – DoDI 5000.2
- Guidance – DAG and ACC
- Acquisition Education and Training – DAU
- System Safety-ESOH Management Evaluation
Criteria for DoD Acquisition
Activities: Oversight

- Participate in MS and program review process
  - Attend program WIPT/OIPT/DAB
  - Review documents for ESOH coverage
  - PESHE and Acquisition Strategy
  - Pilot to determine best process to depict High and Serious Risks at program reviews
  - Exploring cooperation on DAPS and SEP Reviews
  - Work with programs to
    - Clarify DoD 5000 ESOH policy requirements
    - Emphasize integration of ESOH into SE
    - Focus on ESOH risk management
Activities: Policy

• DoDI 5000.2, Operation of the Defense Acquisition System
  – “Facts of Life” update is in process now
  – Incorporates the 3 USD(AT&L) policy memos; EO 13423, Strengthening Federal Environmental, Energy, and Transportation Management; and, DoDI 4715.13, The DoD Noise Program.
  – Clarifies PM must provide system-related data to support NEPA/EO 12114 analyses
Activities: Guidance

• Defense Acquisition Guidebook (DAG)
  – “Facts of Life” update is in process now – mirrors DoDI 5000.2
  – System Safety Analyses added as Input and Output on systems engineering Vee-charts
  – Update Section 4.4.11 – ESOH
  – Major revision of DAG over the summer to place online in the fall

• Acquisition Community Connection (ACC)
  – Update and expand ESOH Special Interest Area
Activities: DAU Curricula

- Review courses and provide ESOH input consistent with current policy
  - Acquisition core, Systems Engineering, Program Management, Acquisition Logistics, Test and Evaluation

- System Safety in Systems Engineering Continuous Learning Module (CLE009)
  - Covers the system safety methodology and identifies ESOH activities supporting the system engineering process for each phase of a systems life cycle
Activities: Evaluation Criteria

• System Safety-ESOH Management Evaluation Criteria for DoD Acquisition, Ver 1.1, JAN 2007
  – Technical and Program Reviews (self assessment)
  – Milestone Review Process (oversight assessment)

• Will be incorporated into the Defense Acquisition Program Support (DAPS) SE Assessment Methodology

• Available at Acquisition Community Connection https://acc.dau.mil/esoh
Questions?

David Asiello
ODUSD(I&E)/Environmental Management
(703) 571-9068
david.asiello@osd.mil
Activities: Oversight
Briefing ESOH Risks at Program Reviews

- Developing a pilot to identify procedures to implement briefing ESOH risks at acquisition program reviews
- Clearly defining what the PM is expected to report is critical
  - Report any hazard with a planned “final” or residual risk level of High or Serious. The report must include the hazard description, initial and target risk levels, planned mitigation measures and status, and potential impact to the program and the government throughout the life cycle of the system
  - The planned “final” risk is the level of risk expected after planned mitigation measures have been verified and validated. Once formally accepted this is the residual risk level
  - Considering whether to report of all hazards with an initial risk level of High or Serious and provide additional details (mitigation measures, target risk level, program impact)