



Chemical and Material Risk Management Directorate

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Acquisition ESOH: Current Initiatives & The Way Ahead

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Outline

- ❖ **Goals of Acquisition ESOH**
- ❖ **The Policy**
- ❖ **Current Initiatives**
- ❖ **Path Forward**



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

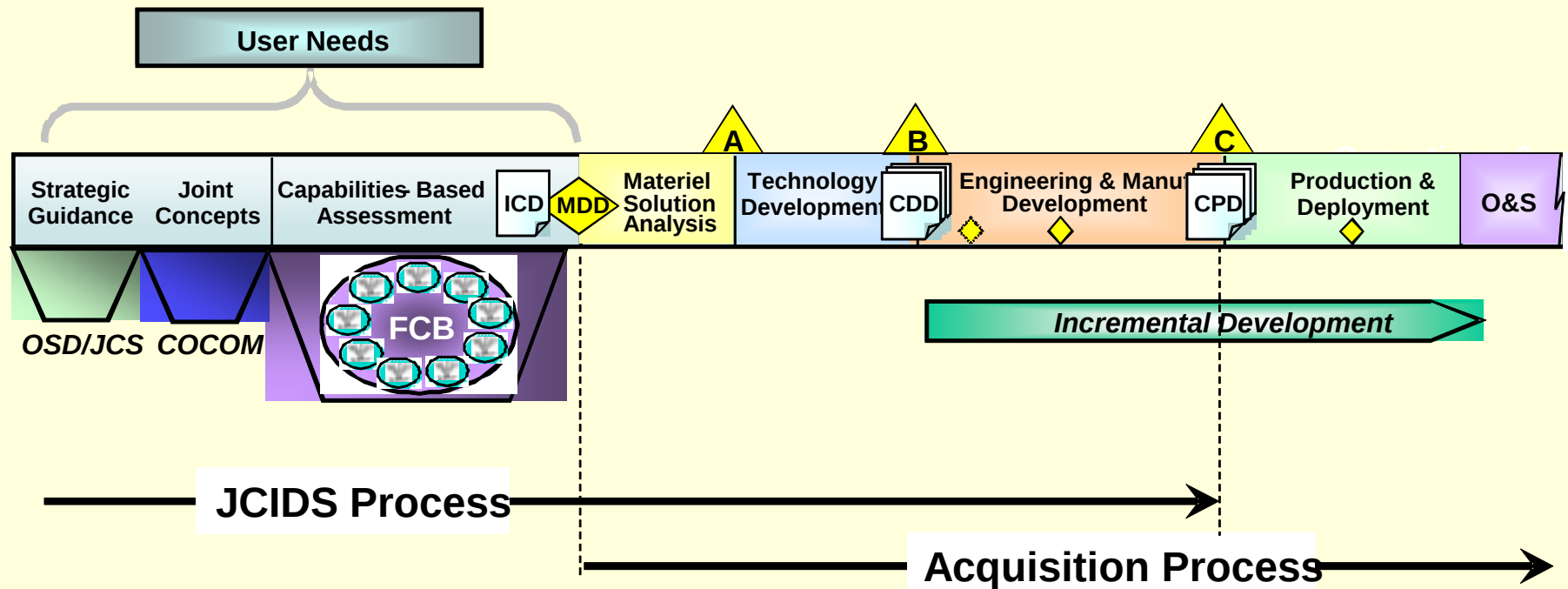
Policy & Guidance

-  **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)**
-  **Defense Acquisition Guidebook, <https://dag.dau.mil/>**
-  **Acquisition Community Connection, ESOH Special Interest Area, <https://acc.dau.mil/esoh>**

Policy (DoDI 5000.02, E12.6)

- ✿ Use MIL-STD-882D, DOD Standard Practice for System Safety, in all developmental and sustaining engineering activities
- ✿ 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



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

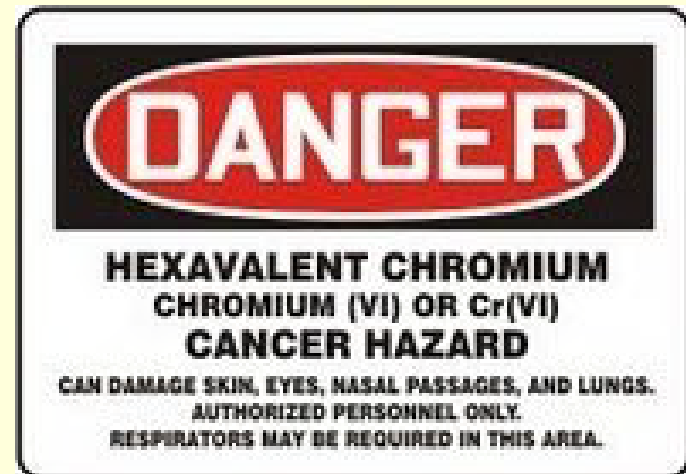
Factoring Sustainability into Acquisition Programs

- ✿ 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



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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

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