

NDIA E2S2 2012

14414 - Updates to Department of Defense Acquisition Environment, Safety, and Occupational Health Policy and Guidance

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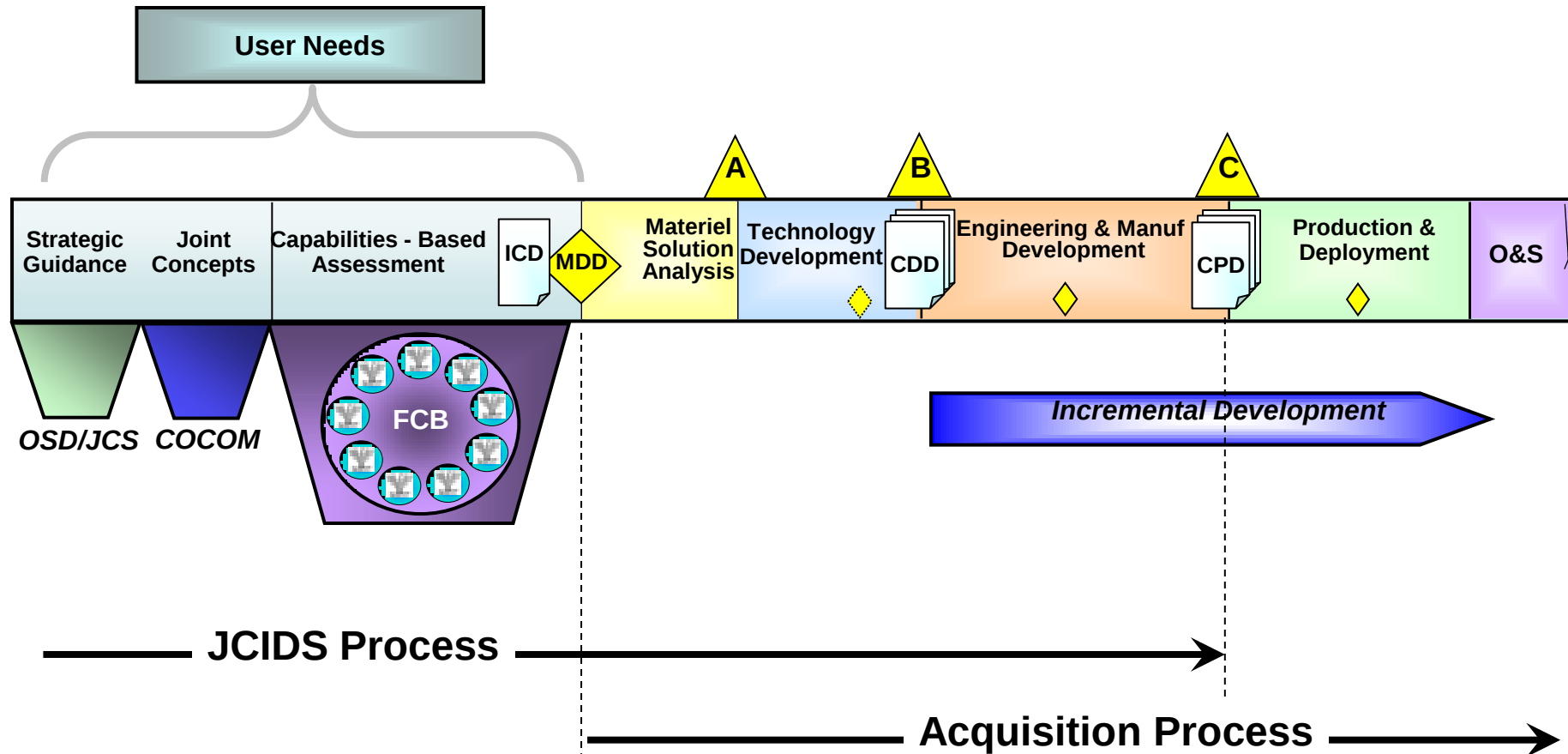
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Updates to Department of Defense (DoD) Acquisition Environment, Safety, and Occupational Health (ESOH) Policy and Guidance

▶ Background

- ▶ Joint Capabilities Integration and Development System (JCIDS) Changes
- ▶ Streamlining of the Systems Engineering Plan
- ▶ DoD Standard Practice for System Safety
- ▶ Defense Acquisition Guidebook
- ▶ Military Department Updates
- ▶ Summary

Background: Defense Acquisition Management System



Background: 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 operability
 - Reduce ESOH-driven life-cycle costs to operate, train, and maintain acquisition systems
 - Assure ability to operate world-wide in a global environment of increased ESOH regulation



Background: DoD Policy

► Acquisition

- 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)
- Directive Technical Manual (DTM) 09-027 – Implementation of the Weapons Systems Acquisition Reform Act of 2009 (December 04, 2009 through Change 3, December 9, 2011)
- DTM 11-003 – Reliability Analysis, Planning, Tracking, and Reporting (March 21, 2011 through Change 1, December 2, 2011)
- Acquisition, Technology & Logistics (AT&L) Memo “Minimizing the Use of Hexavalent Chromium (Cr+6)” (April 8, 2009)
- AT&L Memo “Document Streamlining – Program Strategies and Systems Engineering Plan” (April 20, 2011)

► Capabilities/Requirements

- Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3170.01H, Joint Capabilities Integration and Development System (January 10, 2012)
- Manual for the Operation of the Joint Capabilities Integration and Development System (JCIDS) (January 19, 2012 with errata dated March 29, 2012)

Background: DoD Acquisition Guidance

- ▶ Acquisition
 - Defense Acquisition Guidebook, <https://dag.dau.mil/>
 - Acquisition Community Connection, ESOH Special Interest Area, <https://acc.dau.mil/esoh>
 - Training: “ESOH in Systems Engineering” Course (DAU Course Catalogue listing: CLE 009)
- ▶ Capabilities/Requirements
 - Training: “ESOH in JCIDS” Course (DAU Course Catalogue listing: CLR 030)

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JCIDS: What is it?

- ▶ JCIDS plays a key role in identifying the capabilities required by the warfighters.
 - Statutory responsibility of the Joint Requirements Oversight Council (JROC) is to validate joint warfighting requirements.
 - DoD acquisition and Planning, Programming, Budgeting, and Execution (PPBE) processes are supported.
 - System development is supported through initiating the definition of needed capabilities.
- ▶ Requirements traceability is key to success in system development.
 - JCIDS documents define what the warfighter needs.
 - Acquisition program offices translate those needs into technical requirements – system design, performance, and other specifications.
 - Requirements should be traceable back to JCIDS capability need or regulatory/policy driver.

JCIDS – Policy & Guidance Updates

- ▶ Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3170.01H, Joint Capabilities Integration and Development System (January 10, 2012)
- ▶ Manual for the Operation of the Joint Capabilities Integration and Development System (JCIDS) (January 19, 2012 with errata dated March 29, 2012)
- ▶ Streamlined process
 - 50% reduction in timelines
 - Shorter document in length
- ▶ Six (6) mandatory Key Performance Parameters (KPPs) are formalized.
 - Force Protection, Survivability, Sustainment, Net-Ready, Training, and Energy
 - Energy KPP (eKPP)
 - Fuel and electric power demand considerations in systems
- ▶ Draft CDD is now required for Milestone (MS) A.
- ▶ New Urgent Operational Need (UON) document is established.

JCIDS – Policy & Guidance Updates (Cont.)

- ▶ DTM staffing requires Lead Service ESOH endorsement of JCIDS documents
 - Provide "Forcing Function" of ESOH SME participation in document development
- ▶ Continuous Learning Requirements (CLR) 030 “ESOH in JCIDS” Defense Acquisition University Online Module (April 2011)
- ▶ Defense Safety Oversight Council (DSOC) Initiative – Development of Handbook with ESOH & HSI Capability Statement examples (Starting in 2012)
 - All Types of Platforms
 - Initial Capability Document (ICD)
 - Capability Development Document (CDD)
 - Capability Production Document (CPD)

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Streamlining the Systems Engineering Plan (SEP)

- ▶ AT&L Memo “Document Streamlining – Program Strategies and Systems Engineering Plan” (April 20, 2012)
 - Streamlined and rationalized documentation
 - Delegated Programmatic ESOH Evaluation (PESHE) approval authority for ACAT 1 programs to Component Acquisition Executive
 - Removed PESHE Summary and National Environmental Policy Act (NEPA)/Executive Order 12114 Compliance Schedule from Acquisition Strategy
 - Mandated ESOH content in SEP, Table 4.6-1 Design Considerations
 - Cognizant Program Management Organization (i.e., who is responsible for ESOH)
 - ESOH Certifications
 - Hot link of PESHE and NEPA/EO 12114 Compliance Schedule
 - ESOH contractual language requirements
 - Description/Comments
 - Ensured all policy memos since last DoDI 5000.02 incorporated

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DoD Standard Practice for System Safety

- ▶ Updated to MIL-STD-882E
- ▶ Refined approach for identifying hazards, and assessing and mitigating associated risks encountered for life-cycle of the system
 - DoD strategic plans and goals supported
 - Basic elements of the system safety process clarified via organizational arrangement of information
 - Terminology clarified
- ▶ Emphasized identification of applicable technical requirements
- ▶ Identified additional task descriptions that may be specified in contracts
 - Hazardous Materials Management Plan
 - Functional Hazard Analysis
 - System of Systems Hazard Analysis
 - Environmental Hazard Analysis
- ▶ Increased dollar values for losses in severity descriptions
- ▶ Added software system safety techniques and practices

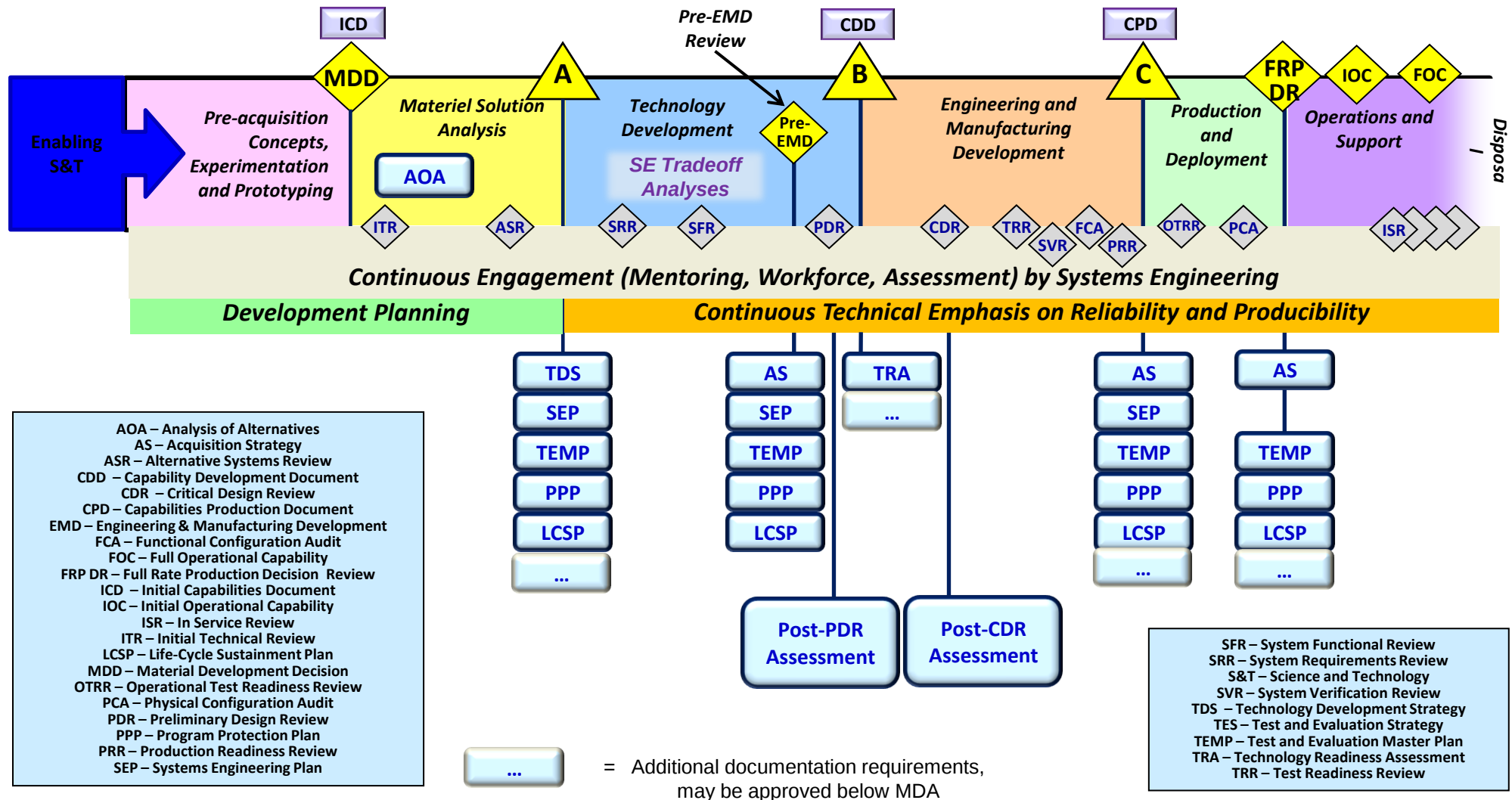
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Defense Acquisition Guidebook (DAG)

- ▶ Provide consistent information and structure to meet needs of Program Managers and Systems Engineers
 - Acquisition Community Connection: More specific guidance on how to accomplish activities
- ▶ Eliminate “Vee” Charts
 - Replace with updated acquisition life-cycle process
 - Focus on what information, which activities, and what documents are needed at key points
- ▶ New DAG Chapter 4, Systems Engineering (SE) Framework
 - Introduction (Overview)
 - Systems Engineering Activities in the Life-Cycle
 - Description of key activities by each phase
 - Technical Reviews
 - Emerging Acquisition Models
 - Systems Engineering Processes
 - Description of each process
 - Design Considerations – ESOH resides in this Section
 - Specialty Engineering

Updated Acquisition Life Cycle “Weapon System Development”



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Military Department Updates

► Air Force

- Air Force Instruction (AFI) 63-101 – Acquisition and Sustainment Life Cycle Management (3 Aug 2011)
- AFI 63-1201 - Life Cycle Systems Engineering (12 Sep 2011)
- Air Force Pamphlet (AFPAM) 63-101 – Guide to Acquisition and Sustainment Lifecycle Management (5 Oct 2009)
- Safety, Civil Engineering (Environmental Engineering), and Surgeon General AFIs



► Army

- Regulation 70–1 Army Acquisition Policy (22 Jul 2011)



► Navy/Marine Corps

- Secretary of the Navy Instruction (SECNAVINST) 5000.2E – Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System (1 Sep 2011)



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Summary

- ▶ DoDI 5000.02 update is planned for late 2012.
 - It will include frameworks for multiple system types: Weapon Systems (the traditional), Information Technology, Business, and Rapid Acquisition..
 - ODUSD(I&E) and the DoD ESOH Integrated Product Team will remain abreast of changes and will provide ESOH input..
- ▶ User ESOH SMEs participation in JCIDS process is critical.
 - Essential for successful integration of ESOH requirements in the SE process
 - ESOH in JCIDS DAU Module useful tool
 - Facilitates User ESOH SME understanding of how to effectively participate and develop capability needs
- ▶ Alignment of the PESHE document with the SEP provides greater visibility of ESOH requirements in SE.
- ▶ MIL-STD-882E clarifies system safety process for environmental use and facilitates applying ESOH analysis to system contract.
- ▶ Updated DAG will be current and easier to use.



Questions

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