



# **Weapon Systems Acquisition Reform Act (WSARA) 2009**

## **OSD Systems Engineering Perspective**

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# WSARA: Two Positions Established: Directors of DT&E and Systems Engineering



Adds new section to US Code Title 10, Chapter 4: Sec. 139d. Director of Developmental Test and Evaluation; Director of Systems Engineering: joint guidance

- **Director of Developmental Test and Evaluation (DT&E) AND Director of Systems Engineering appointed by the Secretary of Defense; report to USD(AT&L)**
- **Principal advisors to SecDef and USD(AT&L) on developmental test and evaluation AND on systems engineering and development planning, respectively in DoD**
- **Two Directors will closely coordinate to ensure that the developmental test and evaluation activities of DoD are fully integrated into and consistent with the systems engineering and development planning processes of the Department**



# Systems Engineering Duties: Establish Policy and Guidance



- Use of systems engineering principles and best practices, generally;
- Use of systems engineering approaches to enhance reliability, availability, and maintainability (RAM) on major defense acquisition programs (MDAPs);
- Development of SEPs for MDAPs including systems engineering considerations in support of lifecycle management and sustainability; and
- Inclusion of provisions relating to systems engineering and reliability growth in requests for proposals;



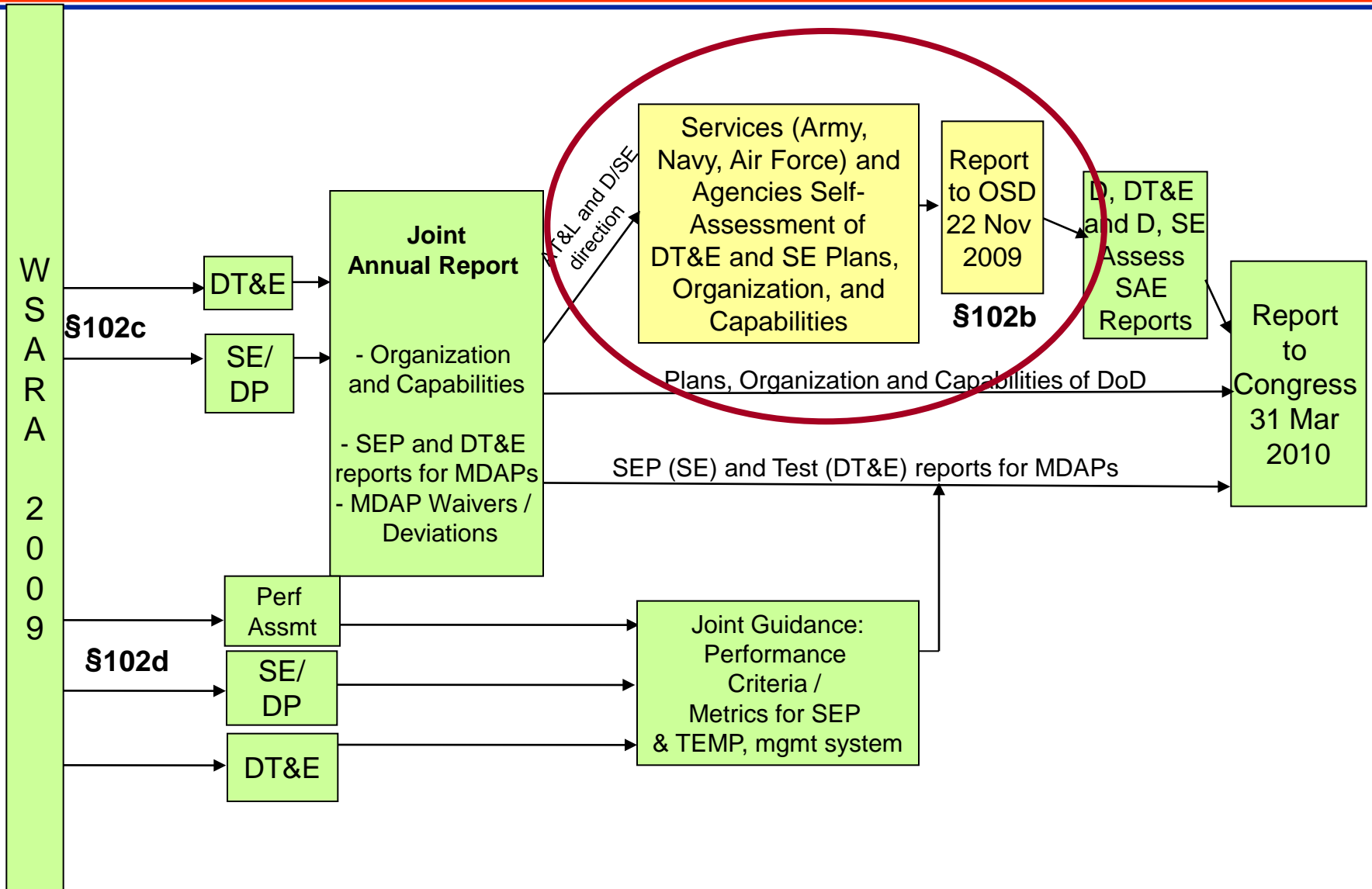
# Systems Engineering Duties: Review and Oversight



- Review and approve the SEP for each MDAP;
- Monitor and review the systems engineering and development planning activities of the MDAPs;
- Provide advocacy, oversight, and guidance to elements of the acquisition workforce responsible for systems engineering, development planning, and lifecycle management and sustainability functions;
- Provide input on the inclusion of systems engineering requirements in the process for consideration of joint military requirements by the Joint Requirements Oversight Council, including specific input relating to each capabilities development document;
- Periodically review the organizations and capabilities of the military departments with respect to systems engineering, development planning, and lifecycle management and sustainability, and identify needed changes or improvements to such organizations and capabilities



# WSARA: Roadmap for 2010 Joint Report





# DoD Developmental Test and Evaluation and Systems Engineering Joint Annual Report Outline



- 1.0 Executive Summary**
- 2.0 Introduction**
- 3.0 Overview of Military Department Assessments**
- 4.0 Assessments of Military Departments' Developmental Test & Evaluation**
- 5.0 Assessments of Military Departments' Systems Engineering**
- 6.0 OSD/DT&E Activities & Oversight Functions**
- 7.0 OSD/SE Activities and Oversight Functions**
- 8.0 Assessments of MDAPs**
- 9.0 SECDEF Comments**
- 10.0 Acronyms**



# Proposed MDAPs for Joint Report - SE



- **Air Force**

- BCS-F Inc 3 (Battle Control System-Fixed Increment 3)
- C-130 AMP (C-130 Aircraft Avionics Modernization Program)
- CITS (Combat Information Transport System)
- HC/MC-130 (HC/MC-130 Recapitalization Program)
- ISPAN Bk 1 (Integrated Strategic Planning and Analysis Network-Block 1)
- MPS I-III (Mission Planning Systems Increments I-III)
- SDB II (Small Diameter Bomb Increment II)

- **Army**

- ACS (Aerial Common Sensor)
- FCS (Future Combat Systems)
- IAMD (Army Integrated Air Missile Defense)

- **Navy**

- CH-53K (Heavy Lift Replacement Program)
- H-1 UPGRADES (4BW/4BN) (United States Marine Corps Mid-life Upgrade to AH-1W Attack Helicopter and UH-1N Utility Helicopter)
- JHSV (Joint High Speed Vessel)
- SM-6 (Standard Missile-6)
- SSC (Ship-to-Shore Connector)
- SSN 774 (VIRGINIA Class Submarine)

- **Joint**

- JCA (Joint Cargo Aircraft)-Army Executive Agent
- JTRS GMR (Joint Tactical Radio System Ground Mobile Radio)
- MIDS (Multi-Functional Information Distribution System (Includes Low Volume Terminal and Joint Tactical Radio System))

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# WSARA Report Near-Term Schedule



## Near Term

- ✓ **June 26 / June 30 / July 8** : OSD SE/DT&E Planning Meetings
- ✓ **July 15**: first Working Group meeting with Components
- ✓ **July 21**: SE Forum – Briefed SE Component Leaders on plan
- ✓ **Aug 10**: Memo staffed through DDR&E to USD (AT&L)
- ✓ **Aug 13**: USD(AT&L) Memo to Components to support Joint Report Congressional timeline
- ✓ **Aug 24**: D/SE Memo to Components to support SE portion of Congressional Report timeline
- ✓ **Aug 26**: D,MA meeting to establish WSARA Policy and Guidance WG
- ✓ **Sept 3**: D,SE update meeting
- ✓ **Sept 15**: WSARA OSD Working Group (OWG) meeting
- ✓ **Sept 18**: Kickoff with Components on actual SE reporting requirements
- ✓ **Sept**: Initial DP/SE/DT&E meeting for Section 102d Reporting Requirements
- ✓ **October 1**: OSD/SE work on OSD portion of report; working with DT&E
- ✓ **October 6**: SE Forum - Status update to Component Leaders
- **November 17**: SE Forum - Status update to Component Leaders
- **November 22**: Components' Reports submitted to OSD/SE (and OSD/DT&E)





# WSARA Report Longer-Term Schedule



- **November 22, 2009:** Services provide baseline organization assessments and plans to OSD / SE and DT&E
- **November 2009 – January 2010:** Development of Draft Joint Report
  - D/DT&E and D/SE review Service assessments for Congressional Report
  - Components provide 15 min briefs on the submitted reports (Target: **December 11, 2009**)
  - OSD Writers Draft Sections 2–8
  - WSARA DT&E/SE JAT Completes Initial Draft Report Review (Target: December 23, 2009)
- **January 2010:** Draft Congressional Report
  - SE Forum updates on WSARA report status in January / February / March
- **March 2010:** Submit Congressional Report
- **Post-March 2010:** Obtain Congressional feedback and initiate plans for 2011 report accordingly