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# CORROSION POLICY AND OVERSIGHT

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OFFICE OF THE UNDER SECRETARY OF DEFENSE  
FOR ACQUISITION, TECHNOLOGY, AND LOGISTICS



## 2017 AIR FORCE CORROSION CONFERENCE

### Corrosion Legislation, Policy & Guidance

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# Agenda



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- Law
- Policy
- Guidance





# 10 U.S.C. 2228 - Directs CPO Efforts



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“Coordinate efforts throughout DoD to prevent and mitigate corrosion of the military equipment and infrastructure”

- Duties include:
  - review the programs and funding levels proposed by each military department for the prevention and mitigation of corrosion
  - provide oversight and coordination of the efforts to prevent or mitigate corrosion during the design, acquisition/construction, and maintenance of military equipment and infrastructure.
  - monitor acquisition practices to ensure use of corrosion prevention technologies and treatments are fully considered during R&D in the **acquisition process** and incorporated into that program, particularly during the engineering and design phases.
- Additionally authorized to:
  - develop corrosion **training**, relevant **directives and instructions**, interact directly with the corrosion prevention industry, trade associations, other government corrosion prevention agencies, academic research and educational institutions, and scientific organizations engaged in corrosion prevention
- Through a long-term strategy to:
  - collect, review, validate, and distribute information on **proven methods and products** relevant to the prevention of corrosion of military equipment and infrastructure
  - coordinate a **research and development program** for the prevention and mitigation of corrosion for new and existing military equipment and infrastructure
  - **transition new corrosion prevention technologies** into operational systems through memoranda of agreement, joint funding agreements, public-private partnerships, university research and education centers, and other cooperative research agreements.

Activities

Research Opportunities

Demonstration-Implementation Projects

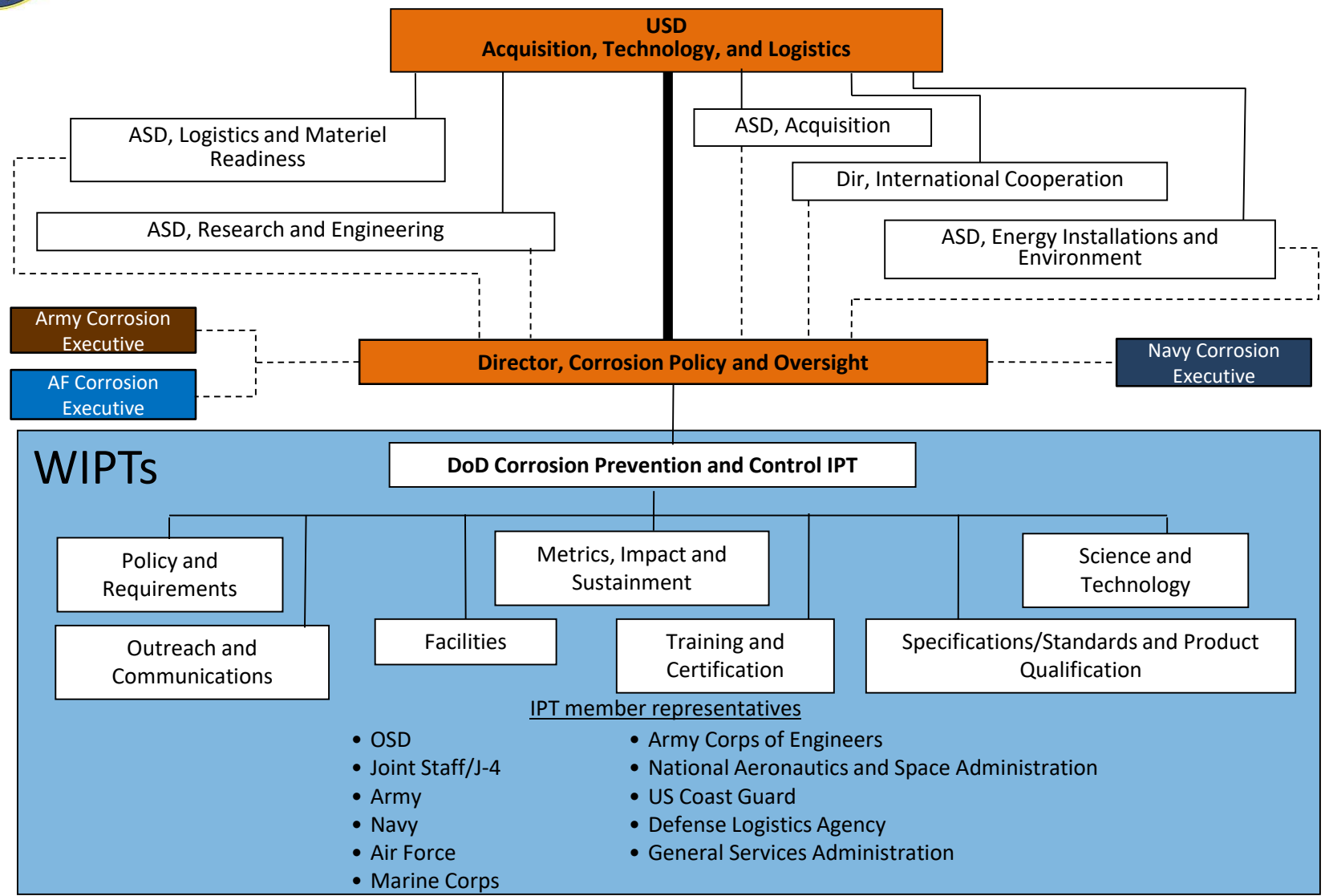




# DoD Corrosion Organization



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# Other Legislation

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## **FY09 NDAA , Section 903**

- Requires each Service to appoint a Corrosion Control and Prevention Executive

## **FY16 NDAA**

- Programs entering acquisition after 1 Oct 2016 will have the SAE as the MDA, unless otherwise designated by the SECDEF

## **FY17 NDAA**

- Disestablishes AT&L - Divide duties between new USD Research and Engineering (R&E) and USD Acquisition and Support (A&S)
  - Plan for realignment due in Aug 2017

## **10 USC 2266b**

- Milestone decision authority certify for Milestone B approval that life-cycle sustainment planning, including corrosion prevention and mitigation planning, has identified and evaluated relevant sustainment costs throughout the life-cycle





# Key CPC Policy Summary



## CORROSION POLICY AND OVERSIGHT

- **Draft DoDI 5000.02** – *Operation of the Defense Acquisition System* – requires CPC planning for all systems (including MAIS, COTS, and GOTS) throughout the lifecycle
  - “.....planning for and establishing 1) a management structure for CPC, and 2) the technical considerations and requirements in order to implement an effective CPC regime throughout the life cycle of a program.”
  - Planning documented in the Systems Engineering Plan and the Life Cycle Sustainment Plan, as a minimum
- **DoDI 5000.67** - *Prevention and Mitigation of Corrosion on DoD Military Equipment and Infrastructure* – establishes structure of DoD Corrosion Program and responsibilities
- **DoDD 4151.18** - *Maintenance of Military Materiel* – requires that corrosion prevention and control programs and preservation techniques be established throughout the system life cycle.

**70% of sustainment costs are locked in by initial design**





# CPC Planning Integrated into Acquisition



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- Overarching policy is to integrate CPC into all acquisition and sustainment activities, processes, procedures and documentation
- Doesn't preclude programs requiring specific CPC activities or documentation (i.e. a CPC Plan)
- Programs must tailor their CPC planning to the requirements of the program through the life-cycle





# CPC Planning Guidebook for Military Systems and Equipment

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- Spiral 4 issued January 2014 (Living Document)
  - Updated February 2014
  - Another update in progress
- Currently being revised due to:
  - DoDI 5000.02
  - DoDI 5000.67 in revision
  - FY17 NDAA AT&L realignment
  - Industry Joint CPC Planning Standard (NACE\SSPC)

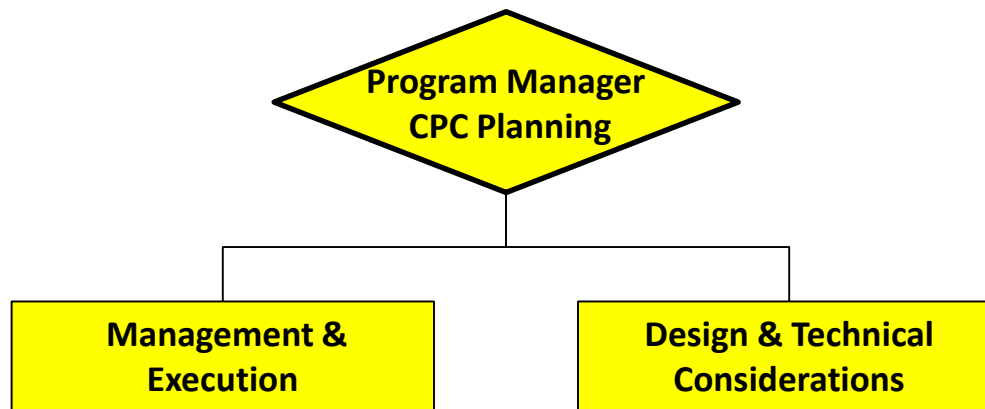






## Maintain the Intent of Two CPC Planning Tenets

### Program Management and Technical Considerations





# CPC Planning Guidebook for MSE – Spiral 4

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## Five Enclosures – One for Each Acquisition Phase

- I. MATERIEL SOLUTION ANALYSIS PHASE AND PRE-MILESTONE A
- II. TECHNOLOGY MATURATION AND RISK REDUCTION PHASE AND PRE-MILESTONE B
- III. ENGINEERING AND MANUFACTURING DEVELOPMENT PHASE AND PRE-MILESTONE C
- IV. PRODUCTION AND DEPLOYMENT PHASE
- V. OPERATIONS AND SUPPORT PHASE

## Each Enclosure Addresses Six Focus Areas

- 1.0 MANAGEMENT
- 2.0 SYSTEM ENGINEERING
- 3.0 LIFE CYCLE LOGISTICS
- 4.0 TEST & EVALUATION
- 5.0 CONTRACTING
- 6.0 COST ESTIMATING AND BUDGET

