Corrosion Prevention and Control Program Plan (CPCPP) Fundamentals

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System Acquisition

• DOD - corrosion planning required throughout the life cycle

System Acquisition Framework

- The Material Development Decision precedes entry into any phase of the acquisition management system
- Entrance criteria met before entering phase
- Evolutionary Acquisition or Single Step to Full Capability

• Perfect corrosion storm brewing – older systems, increased inspection intervals, higher ops tempo, environmental constraints
What is a CPCPP

- CPCPP outlines SPO corrosion program strategies, timelines, resources, roles and responsibilities
- Platform/System corrosion program playbook
- **BLUF – CPCPP**
  - Plan must be fully developed, stay current, be achievable, and resourced appropriately
  - Senior Leadership and Corrosion Manager must fully advocate and dedicate proper resources
  - Corrosion Team must ensure the CPCPP is current and actionable
CPCPP Elements

• USAF ASIP requires formal plan
  – MIL-STD-1530D Aircraft Structural Integrity Program
  – Supporting AFI’s, Airworthiness Bulletins, etc.
• Plan can be valuable to non aircraft platforms/systems
• Plan development resources
  – OSD Corrosion Prevention And Control Planning Guidebooks 3 and 4
  – Corrosion Prevention and Control Planning, NACE SP21412-2016/SSPC-CPC-1
  – Other Weapon Systems - information Interchange
CPCPP Elements

• Plan must be more than a check box
• AFCPO Enterprise approach using template
• Add-ons tailored to Corr Mgr specific needs
  – Tactical and strategic objectives
  – Resource requirements and annual plan
  – Metrics, cost avoidance/ROI/CBA methodologies
  – Project/Action item history
• Advantages to formal plans
  – Stand-alone “How To” resource and ref. document
  – Long-term continuity for frequent turnover positions
  – Easier to track corrosion mission goals, thresholds, and track metrics
### CPCPP Condensed - Tailorable

#### Task Name

- C-5 Strategic and Tactical Objectives Milestones June 2016
  - C-5 CPCP Objectives/Roadmap
    - 1.1 Annual Update CPCP Roadmap
  - Annual review update of CPCP
    - 2.1 CPC Plan Review/Update
  - Develop and distribute Annual Corrosion Report to MAJCOMs supervisors and Group/Wing Commanders
    - 3.1 Review Annual Corrosion Report
  - Review Technical Order Currency
    - 4.1 Review of TO 1C-5A/M-23
    - 4.2 Review of TO 1C-5A/M-23-1
    - 4.3 Review of TO 1C-5A/M-3
    - 4.4 Review of TO 1-1-18
    - 4.5 Review of TO 1-1-24
    - 4.6 Review of TO 1-1-681
    - 4.7 Review of TO 1-1-686
  - Conduct Corrosion Prevention and Control Field Level Assessments
    - 5.1 Travis AFB, CA (60th MXS)
    - 5.2 Dover AFB, DE (436 MXS)
    - 5.3 Lackland AFB, TX (433rd MXG)
    - 5.4 Westover AFB, MA (439th MXS)
  - Conduct CPAB Action Item Review
    - 6.1 Quarterly Telecom
  - Conduct Annual CPAB
    - 7.1 Annual CPAB Conference
  - Brief Air Force Annual Corrosion TIM
    - 8.1 Annual AF Corrosion TIM
  - Investigations

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Surveys/Assessments

• “Need experienced eyes on the ground”
• Team must be very knowledgeable of platform and corrosion prevention and control M&P requirements/constraints
• **Assessments** evaluate the susceptibility of the platform to corrosion
• **Surveys** evaluate the execution of the organization’s CPCP, tech data, M&P, etc.
• Concurrent surveys/assessments - best approach
• Not an inspection, source for CPAB action
Example - CPCP Team Structure

- C-5 CPCP structure – broad range of responsibilities and skill sets
- Information multiple cross-flow patterns
CPAB

- Corrosion Plan is the Corrosion Program heart
- CPAB is the Corrosion Program brain
- Effective/Productive CPAB = Healthy CPCP
- CPAB success is CPCP litmus test
- Further CPAB discussion with Mr. Scott Ward
Take Away

• CPCP required for aircraft, useful on other platforms/systems/equipment
• CPCP is the SPO Corr playbook
  – Team must know the plays - most effective with dedicated, experienced team members
• Senior leadership must
  – Be the advocate and dedicate resources
  – Challenge Corrosion Team to deliver – accountability, incentivize, etc.
• CPCP must show value to justify resource expenditures
Take Away

• Effective CPCP execution should result in:
  – Significant fleetwide cost savings/avoidance
  – Increased platform service life and availability
  – Improved inspection requirements
  – Improved useable technical data
  – Improved environmentally acceptable materials and processes

• Engineering and technical cross flow of information invaluable
QUESTIONS?