



**MEL**

**MANDAREE ENTERPRISES**  
THE STRATEGIC APPROACH

# **Corrosion Prevention and Control Program Plan (CPCPP) Fundamentals**

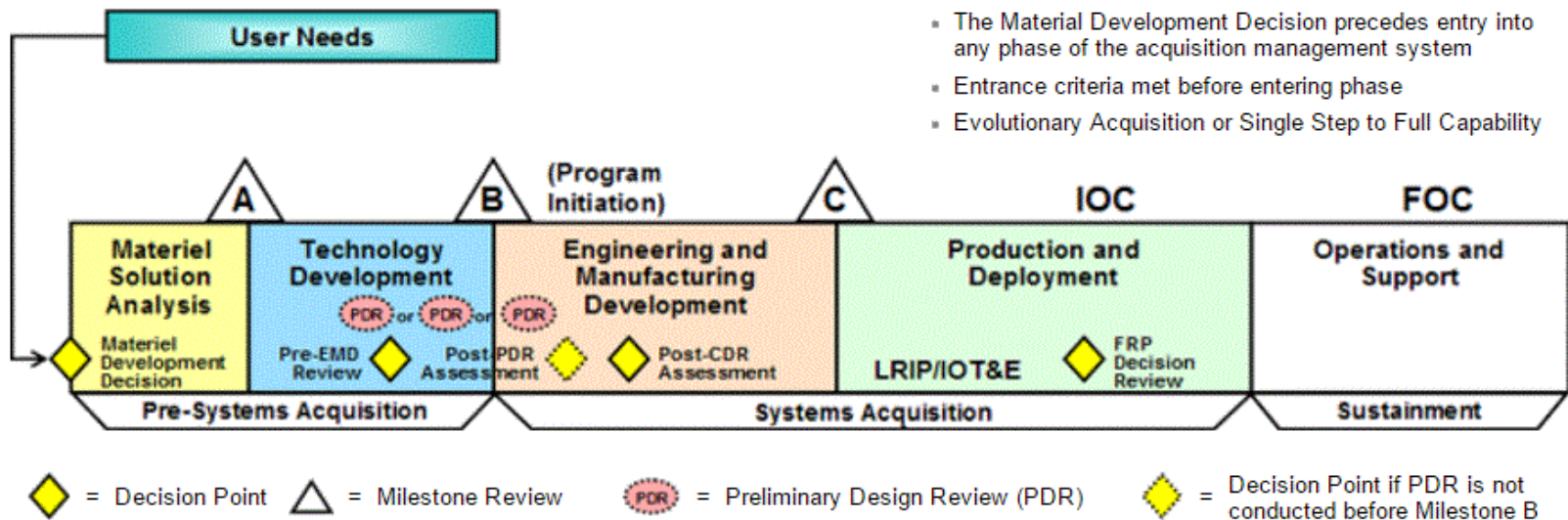
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# System Acquisition

- DOD - corrosion planning required throughout the life cycle

System Acquisition Framework



- 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**
- **“Action Document” vs. “Display Document”**
- **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**

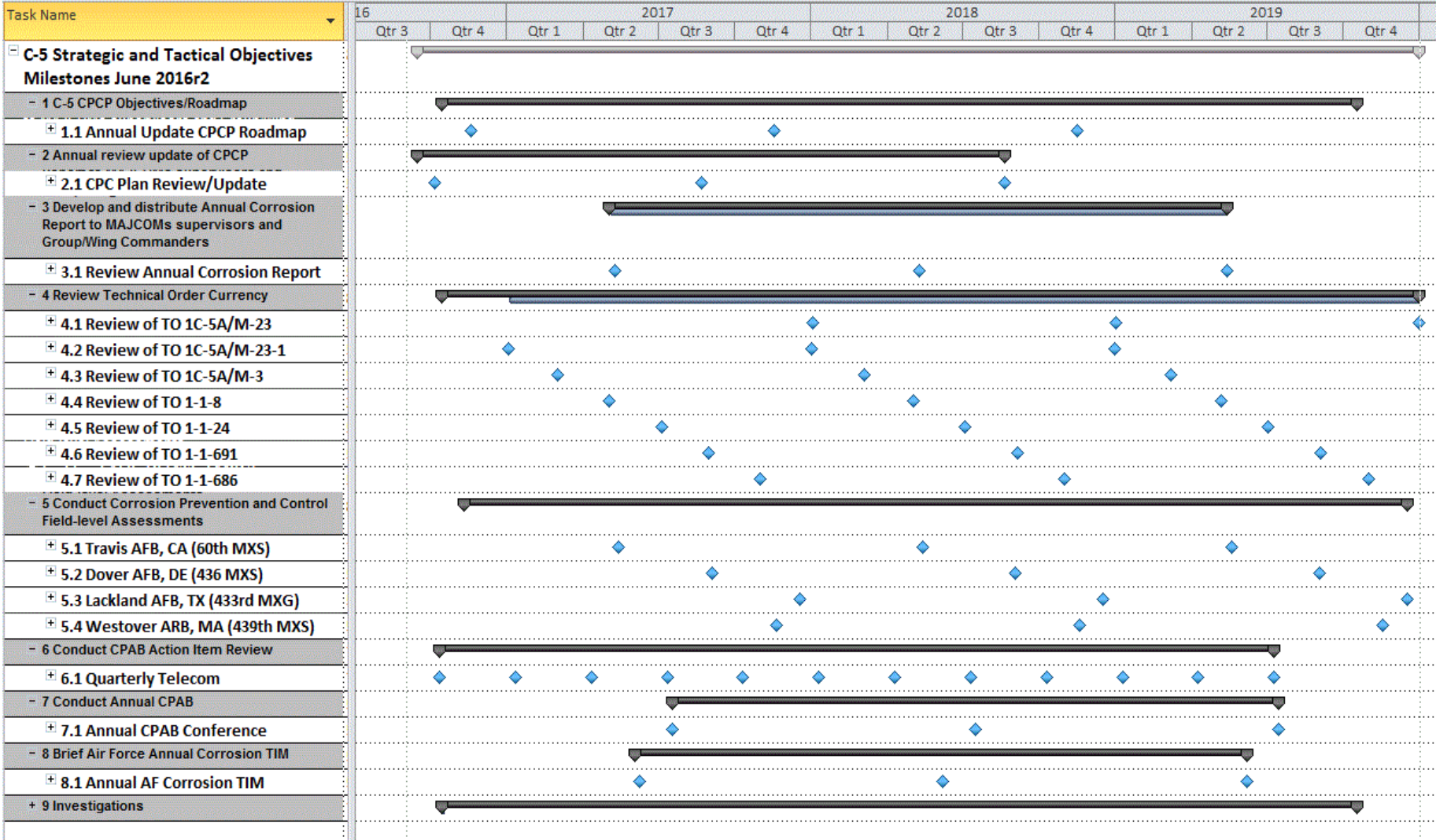


# CPCPP Elements

- **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



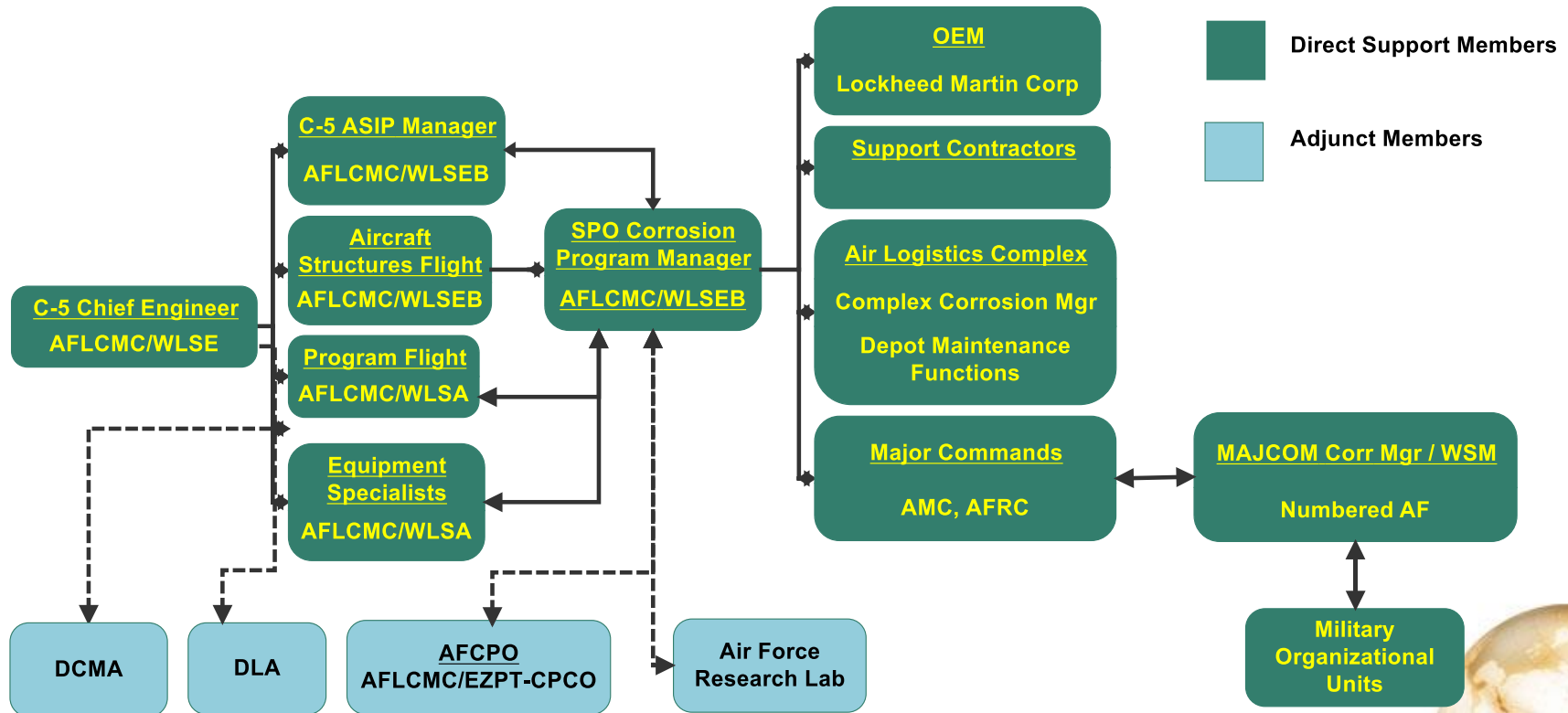
# Surveys/Assessments

- “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?**

