



# Parts Management Implementation



# PM Implementation

## *Goal*

Develop and define processes and training for the implementation of the Parts Management requirements in MIL-STD-3018

- 3 step approach:
  - Processes and Procedures
  - Contract Wording
  - Implementation and checks & balances



# Processes & Procedures

The Implementation Team will be creating specific processes and procedures to address the requirements in defined in MIL-STD-3018.

These will be specific How To elements each one intended to provide a recommended generic practice for Mechanical Parts Management.

The intention is to NOT reiterate the requirements ~ but replicate best practices across industry:

- Preferred Parts Selection List
- Parts Selection and Authorization Process
- Obsolescence Management
- Parts List or BOM
- Subcontractor Management
- Part and Supplier Quality
- Part Level Documentation Procedures
- Substitute and Alternative Part Procedures
- Customer - Contractor Teaming
- Counterfeit Parts
- Lead - Free Electronic Parts
- Metrics and Reporting\*
- Continuous Improvement \*

*\*Currently not a part of MIL-STD-3018*

# Processes & Procedures

## Approach

- Collect pertinent material from PSMC members
- Integrate material collected in a non-proprietary way
- Review/revise/publish

## Current Status

- UTAS framework under development
- Input material obtained from Honeywell
- Input material pending from Boeing
- What about other companies?



# Examples Contract Wording

Parts Management Program – The contractor shall establish and/or maintain a parts management program in accordance with MIL-STD-3018.

- The contractor shall notify the Government as soon as a part is identified as obsolete. For obsolete parts, the contractor shall locate a second source, a different MIL-qualified part that performs the same function without redesign, or a non-standard part that performs the same function without redesign.
- If a non-standard part is chosen, the contractor shall submit a non-standard parts request. If the aforementioned steps do not produce a substitute part and a redesign is required to solve the obsolete part problem, the contractor shall submit an ECP upon government direction



# Examples Contract Wording

Parts Management Program – The contractor shall establish and implement a parts obsolescence program. This program shall include a report to categorize and quantify identification of obsolete parts, problem resolution, and a recommended approach for mitigating risks associated with obsolete parts over the life of the system. The contractor shall maintain a parts selection, control, and standardization program in accordance with this task. The contractor may select parts from the criteria listed below, provided that they meet component performance (e.g., tuning, tolerance, temperature, etc.) and environmental and physical characteristics (form, fit, and function) requirements to the shop replacement unit (SRU) level.

- a. Program Parts Selection List
- b. MIL-STD.
- c. QPL.
- d. QML.
- e. DSCC.
- f. Parts from ISO-9000 certified vendors.
- g. Previously-approved non-standard parts
- h. MIL-FLOW (MIL-FLOW is defined as parts that are specified to meet the form, fit, and functional requirements but are only exposed to a subset of the full MIL-STD screening and testing).

Any other requests that do not meet these requirements must have prior approval from the Government via a contracts letter. The Government will provide a response within 45 days of receipt of the contractor request. When there is no known replacement part from the part criteria list, plastic parts may be evaluated to resolve obsolescence problems. Plastic parts must be qualified in accordance with *contractor name internal procedure*. The test report, detailing the results of the qualification tests shall be referenced as part of the Class I/II ECP that incorporates the change into the hardware. Plastic parts approved for use shall be stored and handled in accordance with *contractor name internal procedure*



# Contract Wording

Let's agree on a collection process