Oil Consumption Monitoring in CAMM2 – Update

ESI1Q – Mr Christopher Keryk
Presentation Overview

• Need for CAMM2 OCM
• Quick Definitions
• Proposed Change
• Progress to Date
• Plan for Completion
• Questions
Need for CAMM2 OCM

• What is OCM?

• Why do we do it?
  – Airworthiness Limitations
  – Defence Long Range Operations
  – Condition Monitoring

• Why CAMM2?
  – Pre-existing inputs
  – SQN spread sheets
  – Time and effort
  – Automatic warnings
Quick Definitions

- Replenishment/ Operational Consumables (ROC)
- ROC Type
- ROC Code
- Assembly

Diagram:

- A Aircraft
  - A01 LH Engine
  - A02 RH Engine
  - A01AA Particle Separator
  - A01AP Engine Assy
    - A01AA00 Scavenge Fan
    - A01AP69 Turbine Disk
    - A01AP72 Turbine Spacer
Proposed Change

• **Current System:**
  
  – ROC types (e.g. Engine Oils) recorded against aircraft level
  
  – Engine MLF (e.g. ENHR) recorded against engine level
  
  – No tracking of ROC for assets
  
  – No rate calculation
  
  – No warnings
  
  – No maintenance release triggers/prevention
Proposed Change – ROC Policy

- ROC Policy Update
  - Assign ROC Policy to Position
  - Warning Limit
  - MRO Required
  - Caution Limit

- MR Check
  - Amber: Nil update/ Caution
  - Red: Incomplete ROC update/ Warning

- Alerts on VASM
Proposed Change – ROC Update

![Image of Replenishments/Operational Consumables - Update interface]

- **Serial/Tail No:** A15-303
- **Eng Name:** CHINOOK AIRCRAFT
- **ROC Type:** LP (DILS)

<table>
<thead>
<tr>
<th>ROC Code Description</th>
<th>+/- Qty</th>
<th>Total</th>
<th>Tradesman</th>
<th>Supervisor/MM</th>
<th>Inspector</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH ENG OIL</td>
<td>5.0</td>
<td>FULL</td>
<td>C.</td>
<td>NOT REQUIRED</td>
<td>NOT REC</td>
</tr>
<tr>
<td>LH ENG OIL</td>
<td>QT</td>
<td>QTU</td>
<td>02JUN16 03:00</td>
<td>0.45</td>
<td>0.35</td>
</tr>
<tr>
<td>LH ENGINE</td>
<td>ENHR</td>
<td>27.4</td>
<td>0.18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Defending Australia and its National Interests
www.defence.gov.au
Proposed Change – ROC History

### Replenishment/Operational Consumable History - Inquiry

<table>
<thead>
<tr>
<th>ROC Code</th>
<th>+/- Qty</th>
<th>Total</th>
<th>Tradesman</th>
<th>Supervisor/MM</th>
<th>Inspector</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIL ENG NO 1</td>
<td>1.0</td>
<td>FULL</td>
<td>D. FOREM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>OIL ENG NO 1</td>
<td>1.0</td>
<td>FULL</td>
<td>D. FOREM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LH ENG</td>
<td>2</td>
<td></td>
<td>11NOV16 04:10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OIL ENG NO 1</td>
<td>1.0</td>
<td>FULL</td>
<td>D. FOREM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>OIL ENG NO 1</td>
<td>1.0</td>
<td>FULL</td>
<td>D. FOREM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LH ENG</td>
<td>10</td>
<td></td>
<td>01NOV16 04:10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OIL ENG NO 1</td>
<td>1.0</td>
<td>FULL</td>
<td>T. WOOD</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>OIL ENG NO 1</td>
<td>1.0</td>
<td>FULL</td>
<td>T. WOOD</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LH ENG</td>
<td>10</td>
<td></td>
<td>26APR15 22:57</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Average Consumption**: 0.10

**Recent ROC %**: 500

---

Defending Australia and its National Interests
www.defence.gov.au
Progress To Date

• High Level Design

• Conference Call w/ Stakeholders

• Rough Order of Magnitude Cost
Plan For Completion

1. ROM Cost
2. Engage
3. Build
4. Release
Questions?