Air Force Material Command

CBM+ Implementation Example

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Interval Extension

Interval extension has been a strategic vision for turbine engine life management since early 2000s

- Interval Extension Enablers
  - Enhanced data collection to distinguish individualized usage from average fleet usage
  - Usage Based Lifing (UBL) - new life-management tools track actual engine mission damage (life consumption) instead of utilizing fleet average statistics
  - IT infrastructure to capture and integrate data/models
- Potential Benefits
  - Optimized maintenance intervals
  - Reduced borescope burden
  - Alignment of maintenance tasks

UBL =

More accurate 'odometer'

= individualized asset management

F100 Engine Health Management (EHM) Demo

- **Objective:**
  - Use well understood legacy system to gain early experience in individualized asset management
- **Goals:**
  - Demonstrate ability to effectively collect/handle streaming data
  - Functional check and real world benefits validation
- **Location:**
  - F-16s @ Luke AFB

- **Status:**
  - Estimated for 2 years from Demo start (19 July 2011)
  - Data downloaded after every flight
  - Over 50G of data collected so far!! (analysis/LEARNING on-going)

Keys to Success

- **Champions**
  - **Senior Leaders who create the expectation by asking the right questions**
- **Ownership**
  - **Action Officers who accept the responsibility to understand and support CBM+ objectives**
- **Relationships**
  - **Know your role/contribution and identify what you need from others**
  - **Build partnerships, be an active listener**
- **Education**
  - **Isn't a dramatic new way of doing business**
  - **Read up on CBM+ and ASK questions**

Questions?