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AMCOM CBM+

PREVENTIVE

INDICATORS

DIAGNOSTICS

PROGNOSTICS

ON-CONDITION

- Digital Source Collector Installation
- Health Monitoring Unit (HMU) Installation
- Knowledge Development

- CI / HI Development
- Flight Line Diagnostics
- Institutionalized Training

- Remaining Useful Life Calculation
- Inspection Targeting
- Mission-Based Forecasting

CBM Program Supporting ARFORGEN

CBM Program Objectives:

- Decrease Maintenance Burden on the Soldier
- Increase Platform Availability and Readiness
- Enhance Safety
- Reduce Operations & Support (O&S) Costs

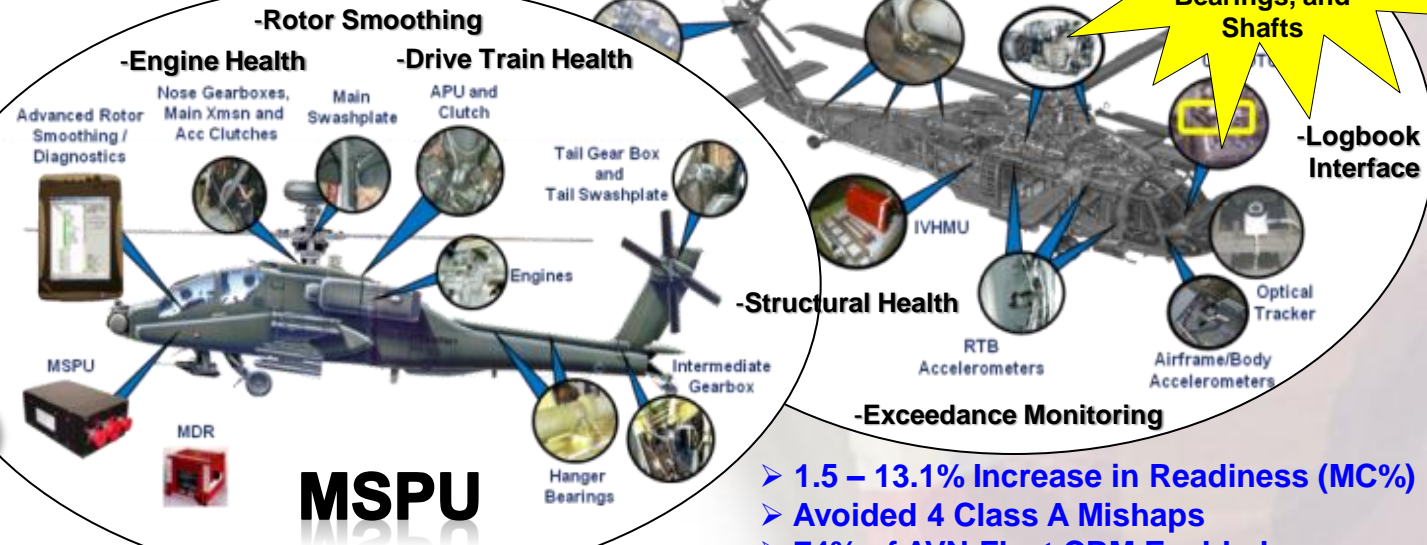
Key CBM Enablers

- Digital Source Collectors
- Health Monitoring Units
- Flight Line Diagnostics
- Data Fusion/Analysis

The purpose of Army Maintenance is to generate Combat Power.

AR 750-1

- Over 4,958 Maintenance Events Eliminated
- Experienced 1.4% - 12.9% NMCM Reduction
- 1 Less Mission Aborts Per 100 Flights Hours



- 1.5 – 13.1% Increase in Readiness (MC%)
- Avoided 4 Class A Mishaps
- 74% of AVN Fleet CBM Enabled

Cost-Wise Readiness Through CBM



Warfighter Benefits From CBM

■ Reduce Soldier Burden

- Reduce Unscheduled/Scheduled Maintenance Events and Extend Inspection Intervals: Total of 343,278 MMHs/Year Avoidance With Over 4,958 Maintenance Events Eliminated
- Optimize Maintenance Practices: Over 43 AWRs and 127 Improved Maintenance Procedures

105 Maintenance Manual Changes

■ Increase Platform Availability and Readiness

- Reduce Mission Aborts: Experienced 1 Less Mission Aborts Per 100 Flights Hours
- Improve OPTEMPO: Experienced 1.5 – 13.1% Increase in Readiness (MC%)

■ Enhance Safety

- Reduce Class A Mishaps: Based on Incident History, Could Avoid ~11% or ~40 Materiel Related Mishaps (All Classes)/Year
- Improved Maintenance and Maintenance Management Training Reducing Induced Materiel Malfunctions

Experienced 1.4% - 12.9% NCMCM Reduction

Already Avoided 4 Class A Mishaps

■ Reduce/Control Total Life Cycle O&S Costs

- Increase Component “Time on Wing”: Current CBA Identifies 22 CBM Monitored Parts That Have or Will Have the Time-Between-Overhaul (TBO) Extended or Eliminated
- Reduced Demand for Maintenance Test Flights (MTF): 5.8% Reduction in Flights Dedicated to MTF in CH-47D
- Additional \$17.1M/Year in Part Usage Avoidance Expected With CBM Enabled Aircraft Flight Time Driving Maintenance

CBM CBA Projection: MTF Cost Avoidance of \$25.7M/Year