



Aging Aircraft

DoD Maintenance Symposium

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Current Situation

- **Optempo for Naval Aviation primarily measured by:**
 - Flight Hours
 - Fatigue Life Expended (FLE)
 - Landings
 - Catapults and Arrestments
- **Environmental concerns / considerations are part of Naval Aviation's everyday challenge, but ...**
 - Desert Sand
 - Extreme Heat Exposure
 - Duration of Exposure



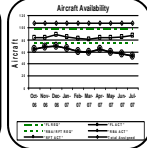
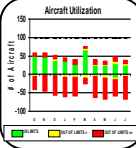
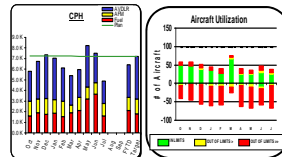
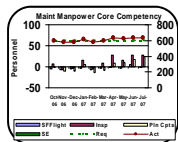
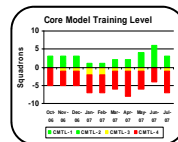
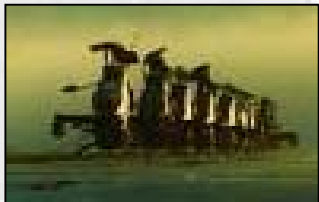
ACFT Material Condition Flow

**CONUS Preset
(Pre-deployment)**

DEPLOY / TRAIN

**Combat
Sustainment
In Theater**

RETURN TO FLEET



REDEPLOY

**CONUS
Industrial &
Integrated Logistics
Support (ILS)**

**CONUS Reconstitution
(Post-deployment)**



DEPOT INDUC

TRAIN/OPS

DEPOT INDUC

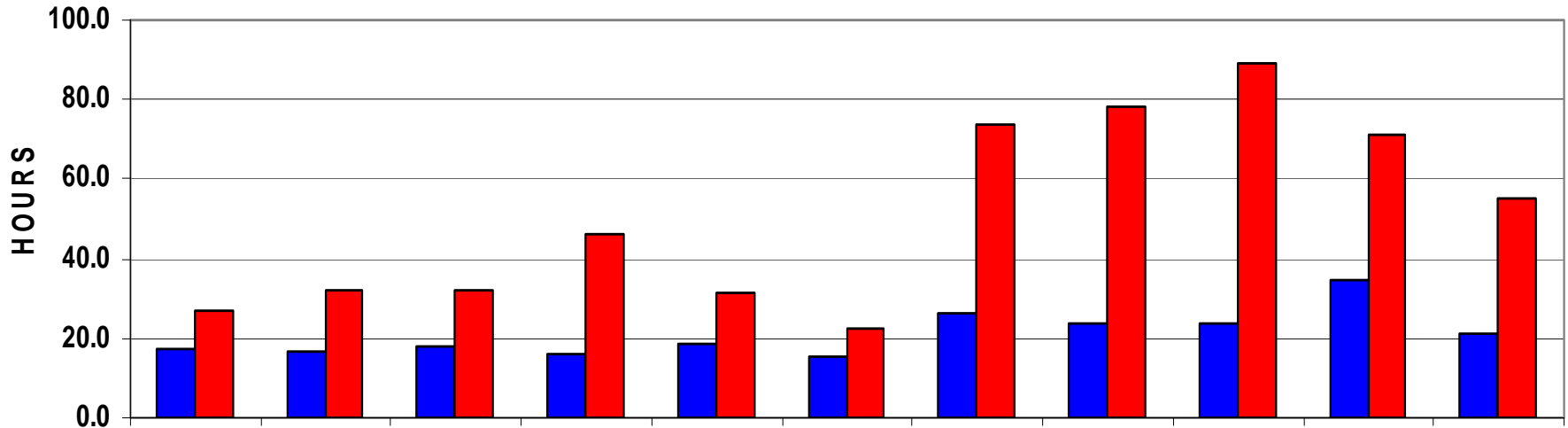




Aircraft Optempo



USMC Fixed Wing and Rotary Wing Planned vs OCO monthly Utilization





Concept for Aircraft Utilization Management

- DoN:

– Flt Hrs: ● WRFLE: ● C-T-L: ●

– USMC:

• Flt Hrs: ● WRFLE: ● C-T-L: ●



- MAW/MAG

- VMFA-XXX Flt Hrs: ● WRFLE: ● C-T-L: ●
- VMFA-... Flt Hrs: ● WRFLE: ● C-T-L: ●



- VMFA-XXX
• 1235456... Flt Hrs: ● WRFLE: ● C-T-L: ●





Concept for Aircraft Utilization Criteria

Top Level

- Flt Hrs, WRFLE, C-T-L <20% Life Left
- Flt Hrs, WRFLE, C-T-L <25% Life Left
- Flt Hrs, WRFLE, C-T-L <30% Life Left
- Flt Hrs, WRFLE, C-T-L <35% Life Left

Service Level

- @ or less than Target Rates for Convergence
- > 30% of Fleet >Target Rates for 1-Month
- > 30% of Fleet >Target Rates for 2-Month
- > 30% of Fleet >Target Rates for 3-Month

MAW / MAG Level

- @ or less than Target Rates for Convergence
- > 30% of Fleet >Target Rates for 1-Month
- > 30% of Fleet >Target Rates for 2-Month
- > 30% of Fleet >Target Rates for 3-Month

Squadron Level to MAG Commander (TMS Lead)

- BUNO @ or < Target Rates for Convergence
- BUNO > Tgt Rate, < Goal Rate (original black line)
- BUNO @ or < Tgt Rate, > Goal Rate
- BUNO > Tgt Rate, > Goal Rate



Environmental Examples

CH-53E Cockpit Console



Carrier Deck Water Spray



F/A -18 Flap Actuator

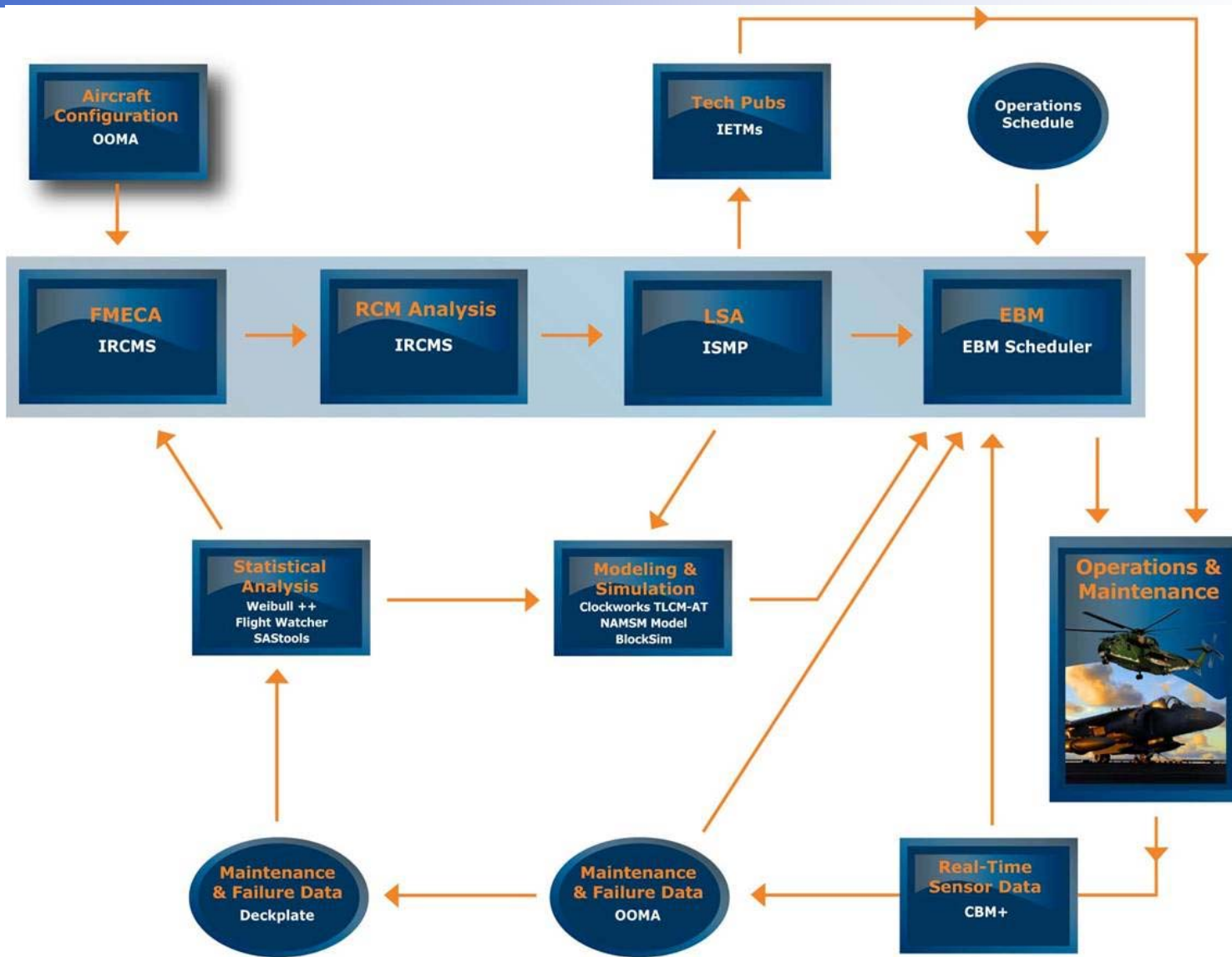


KC-130J CB Band Antenna





Technical Flow





Readiness Condition with Preventative Maintenance (To-Be State)

