2006 DOD Maintenance Symposium Reno, Nevada

Fleet Readiness Center Southwest

"Move Your Cheese Now!"

Captain Fred Cleveland, USN
Commanding Officer





Who We Are---FRC Southwest



Sec Nav Priorities

- **Optimize the Workforce**
- **Prosecute the GWOT**
- **Build the Navy-Marine Corps for Tomorrow**
- **Emphasize Safety, Manage Risk**
- **Reinforce Ethics**
- □ Lean/Six Sigma

What We're Doing

Alignment

Focus on Innovation That amplifies by leveraging aligned goals

CNO Priorities

Mission Accomplishment

- **Sustain Combat Readiness**
- **Build a Fleet for the Future**
- **Develop 21st Century Leaders**

NAE/NAVAIR Goals

- **Balance Current and Future Readiness**
- **Reduce the Cost of Doing Business**
- **Enhance Agility**
- **Improve Alignment**
- **Implement Fleet-Driven Metrics**

Depot Priorities



- Cycle-Time Reduction
- Reliability
- **I2D Integration**
- Material Management
- Reduce Cost of Doing Business









FY-06 Production Results

Plan / Actual

* **Helo-line:** (46) / (44) H-60 IMC aircraft

(59) / (59) H-1 IMC aircraft,

(9) / (8) H53 IMC aircraft

* **E-2/C-2**: (9) / (7) E-2 aircraft

(9) / (8) C-2 aircraft

* **F/A-18**: (53)/(47) PMI-1s

(32) / (32) PMI-2s

(13)/(11) Crash Damaged aircraft

(13) / (7) CBR+ aircraft

(3) / (3) "E/F" AEPD aircraft

* Field Service: (25) / (23) EA-6B IMC aircraft

(6) / (6) AV-8 IMC aircraft

•Components: 39,159 / 34,279 Units

3,813/3,460 PBL units 3,591/3,000 DMISA units 1,235/829 FMS units 28,164/24,990 FE units 154/126 4Z units

2,202 / 1,874 Concurrent units

* LM2500 Engines: (10)/(13)

* Mobile Facilities: (57)/(56)

* **Calibration:** (14,218) / (12,850) units

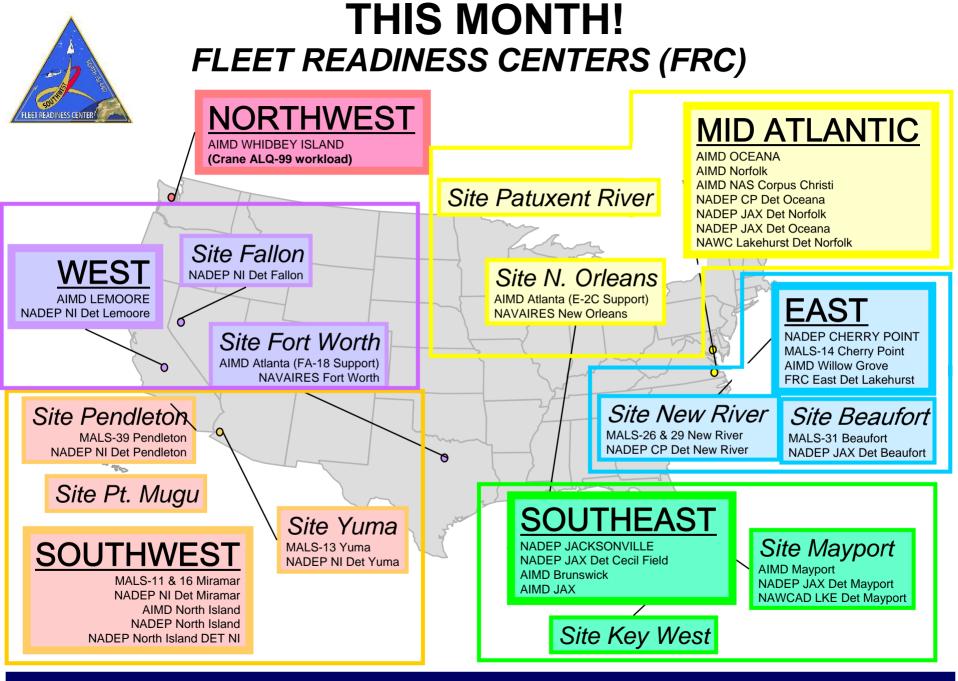
* Manufacturing: (1,822) / (1,644) items

Aircraft (247) - approx 94% of FY2006 plan

Components (34,279) - 88% of FY2006 plan

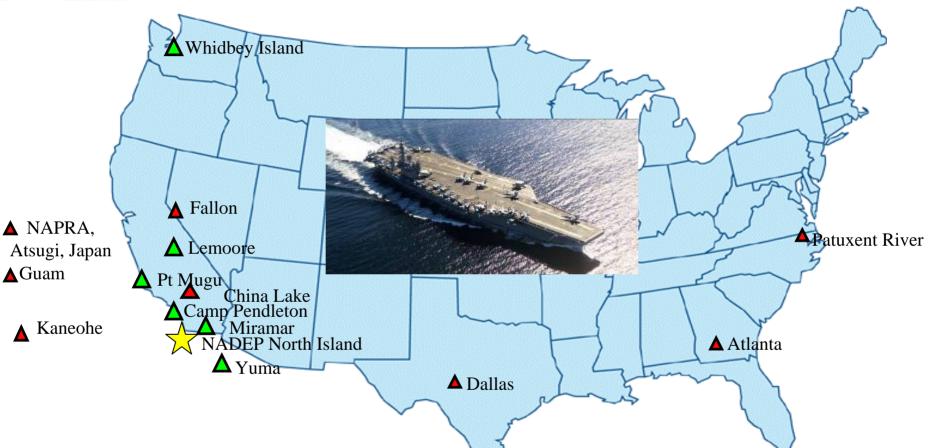
Ensured Commander, Naval Air Forces "Ready For Tasking" Aircraft Goals







FRC Southwest A Presence Far Beyond San Diego



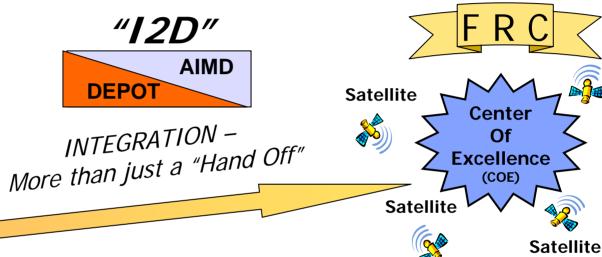
FRCSW regularly supports 6 pacific fleet Aircraft Carriers while in-port or at sea. We also resource numerous long and short-term detachments at many sites around the country and the globe. The FRCSW team provides immediate worldwide Warfighter support wherever and whenever needed!

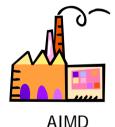
FLEET READINESS CENTER

The Naval Aviation Enterprise...

Transforming into Fleet Readiness Centers







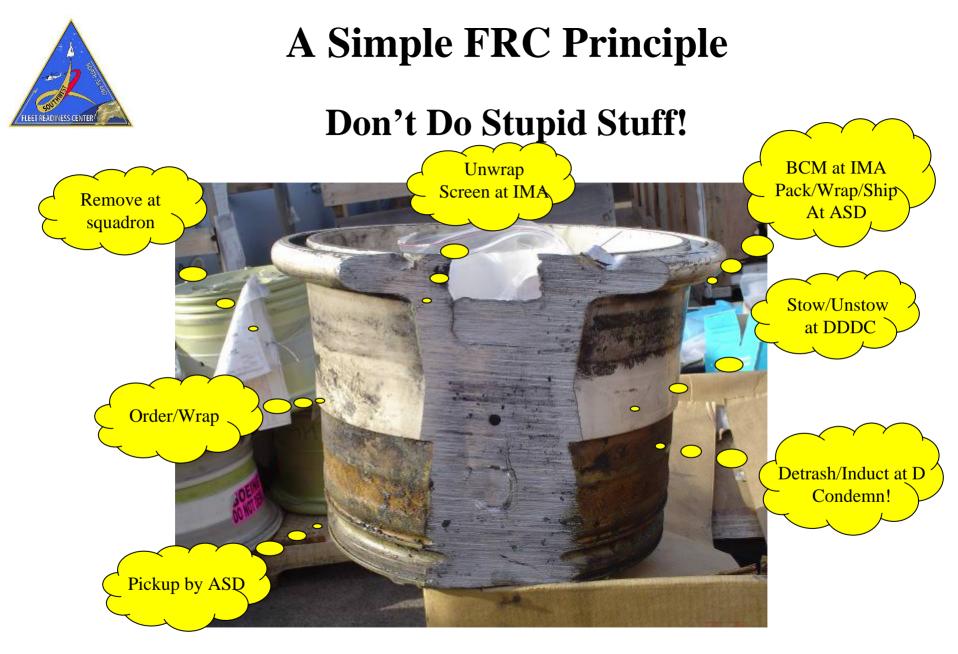
Stovepipe processes

On site Artisan skills allows for increased capability by leveraging infrastructure and technology.

Facilitates positive upstream impacts that transcend the NAE

COE: Jewelry Store Satellite: Wal-Mart

More "Move your cheese now!"





FRC Planning

12D

Lemoore

Radar BCM Interdiction Team

•Number to Date: 1

• APG-65 Pwr Supply

Converter

√ Value to FHP: \$4,601

•RFTF Bench Round Robin: 1

Composites, Hydraulic, Avionics Interdictions

•Number to Date: 44

√ Value to FHP: \$ 383,179

Pt. Mugu

Finalizing BCM Analysis

3-artisans planned for support

NORIS Petri Dish:

AirsSeed Plans in Final (Avionics)

•BCA with Reserves week of June 6

BCM Interdictions

•Number to Date: 51

√ Value to FHP: \$159,597

Whidbey Island

•Canopies, EA-6B Flight Controls, P-3 Components

\$7,462,727

lyd, Avionics Interdictions

er to Date: 59

ie to FHP: \$ 2,422,917

YUMA

 Finalizing BCM Analysis

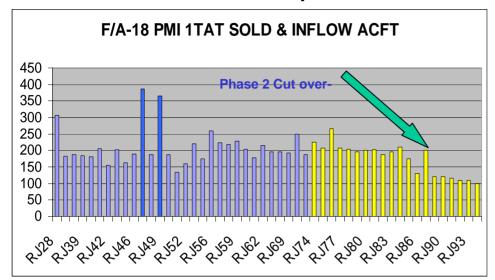


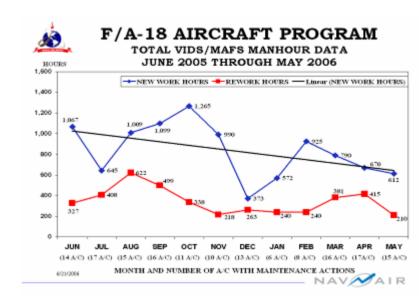
FY06 BCM Interdictions: *up* 41% from FY2005

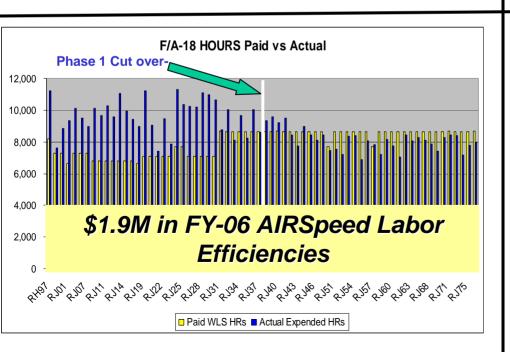
✓ Value to Flying Hour Program: \$10,433,021

√ To date 344 items (51% more units)

AIR Speed/LEAN Success Stories







- Phase 1, Visual Synchronization provided reduction in cost
 by 18 % down by 1744 man-hours
- Phase 2, Single Piece Flow reducing TAT by 33% to 120 Days
- Quality Reduction in MAF per manhour down by 29% from first half of year

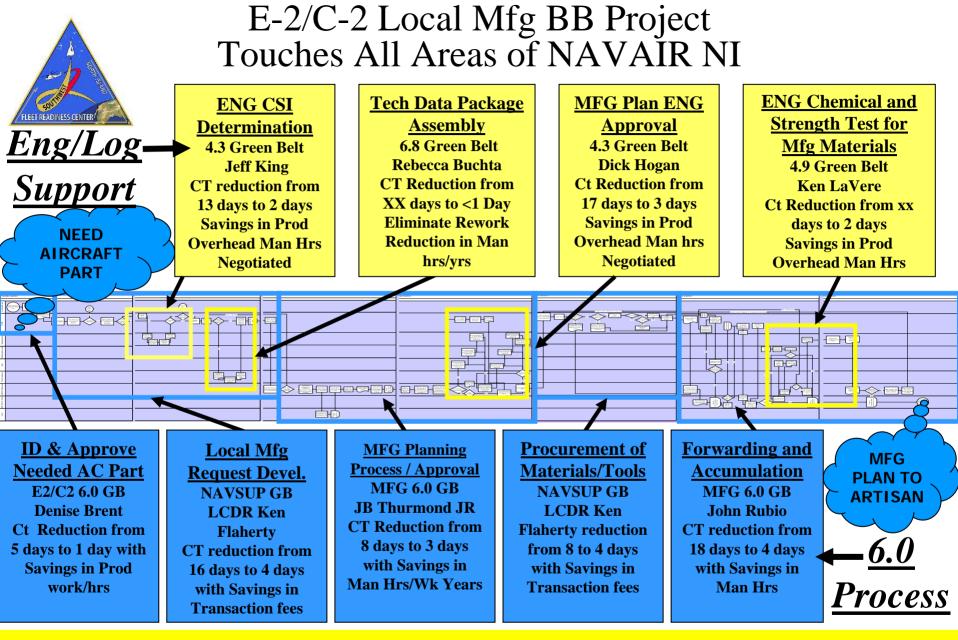


E-2/C-2 - Single Piece Flow

Synchronized Pull system based on Fleet Flightline Requirement

85'	52'	40'	85'	85'	41'	41' 37'
E2/C2DISASSEMBLY	E2 E&E METAL ELECT DITM CO	E2 E&E METAL ELECT	E2 ASSEMBLY	C2 ASSEMBLY	C2 SLEP ELECT	C2 SLEP METAL C2 SLEP METAL 14' 75'
						C2 SLEP KIT CAGE

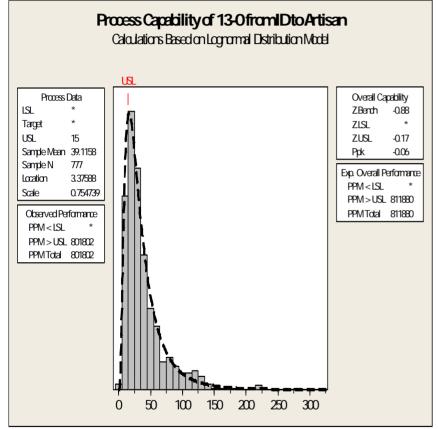




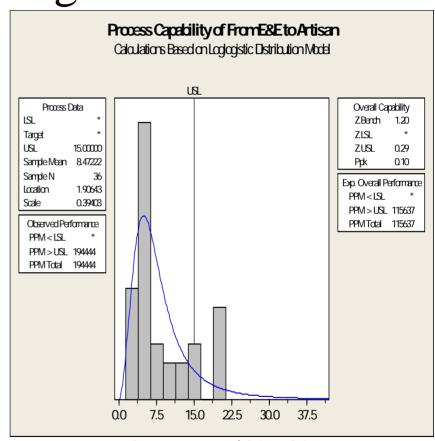
Pilot Complete - Replication on F-18, Implementation on all E-2/C-2



MFG Planning Before and After Lean/Six Sigma



Before Lean/Six Sigma –
Process was 20% capable of
Meeting 15 Day TAT



After Lean/Six Sigma –
Process Is 80% Capable of meeting 15 Day TAT



FY-06 AIR Speed Yield Summary

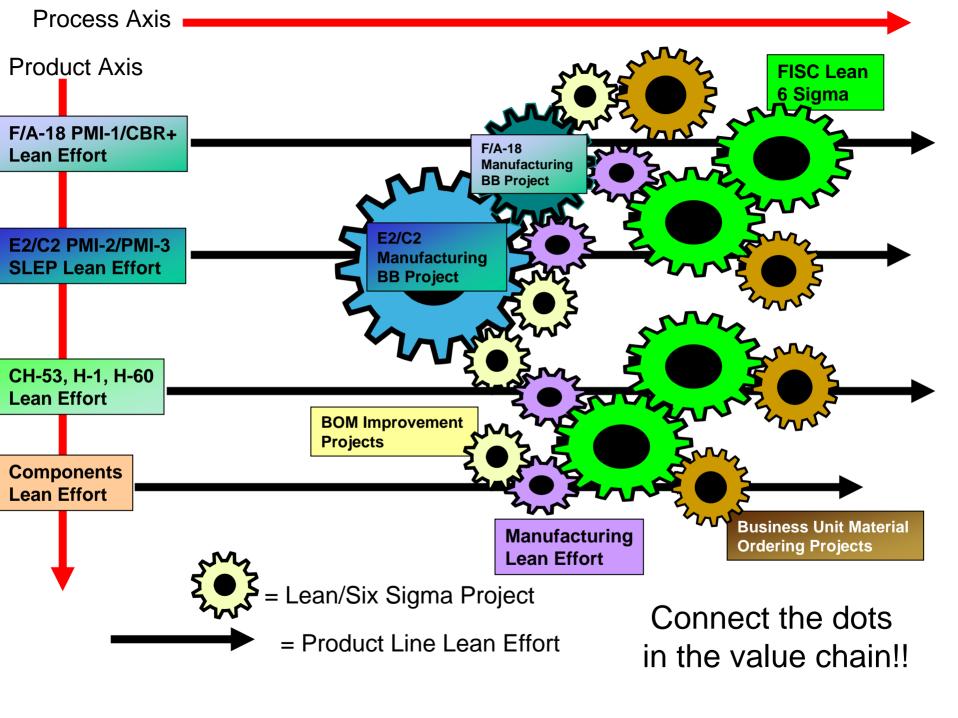
Aircraft Lines

- F-18 PMI-1
- H-1
- E-2/C-2
- CH-53

Manufacturing

Components

Labor Hours	Flightline Inventory/Cycle Time		
Down 20% - \$1.9M Execution	At or Above Entitlement		
Down 10% 1.8M FY-07 WLS Reductions	WIP Reduction 8 AH-1W (\$8M Inv)		
C-2 SLEP APN-5 Reductions 2K Hours Re-wire, 1.5K Hours SLEP	C-2 @ F/L (Adding Re-wire for 30 Days C/T) E-2 Gap Driven by Mods		
At WLS	Was over 300 days, delivered last aircraft at 218 days, driving towards 175 days over next three aircraft w/Current Staffing		
50% Reduction in Sh	neet Metal Cycle Time		
\$10.4M Repair In	iterdiction Savings		





Focus for Innovation

- Weak Signal Management
- Industrial Information Technologies
- Accelerated Supply Chain
- Coherent Human Capital
- Relevant Technology



Fleet Readiness Center Southwest



A National asset, providing flexible, responsive, integrated maintenance solutions and cost-wise readiness to our nation's Warfighters