

WIFA-312

TRANSFORMING NAVAL AVIATION MAINTENANCE FOR THE 21ST CENTURY

RDML(S) Michael Hardee COMMANDER NAVAL AVIATION DEPOTS

25 October 2005

OUTLINE

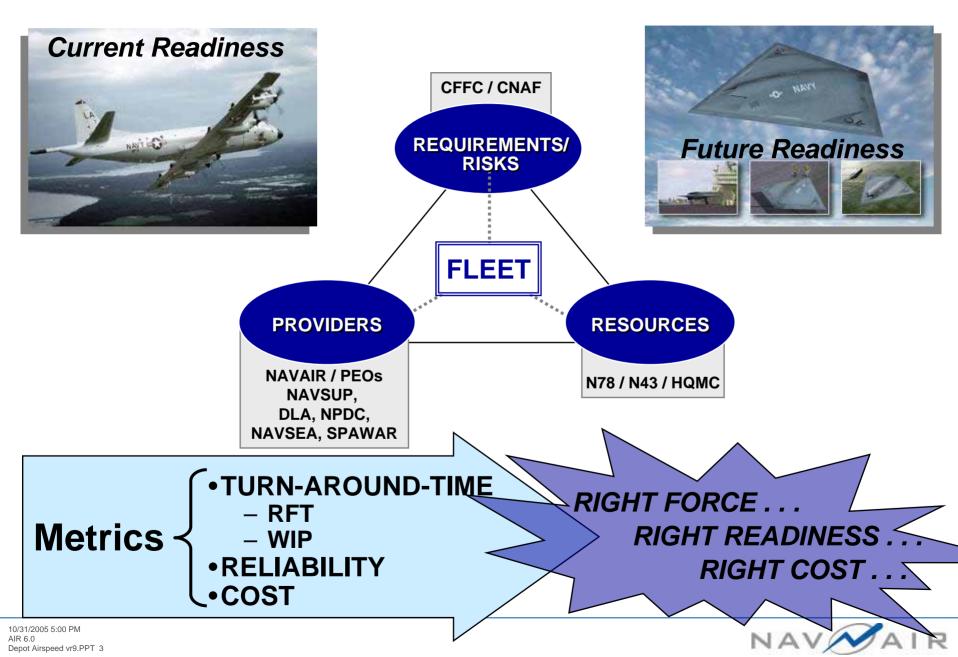
- WHERE WE'VE BEEN
 - DEPLOYED READINESS FOCUS
- WHERE WE ARE:
 - ENTERPRISE MANAGEMENT
 - COST-WISE READINESS
 - READY FOR TASKING AIRCRAFT
 - TMS FOCUS
 - AIR Speed
 (ie. LEAN, SIX SIGMA, TOC)
 - PBL / PPP
- WHERE WE ARE HEADED:
 - PBL / PPP
 - FLEET READINESS CENTERS



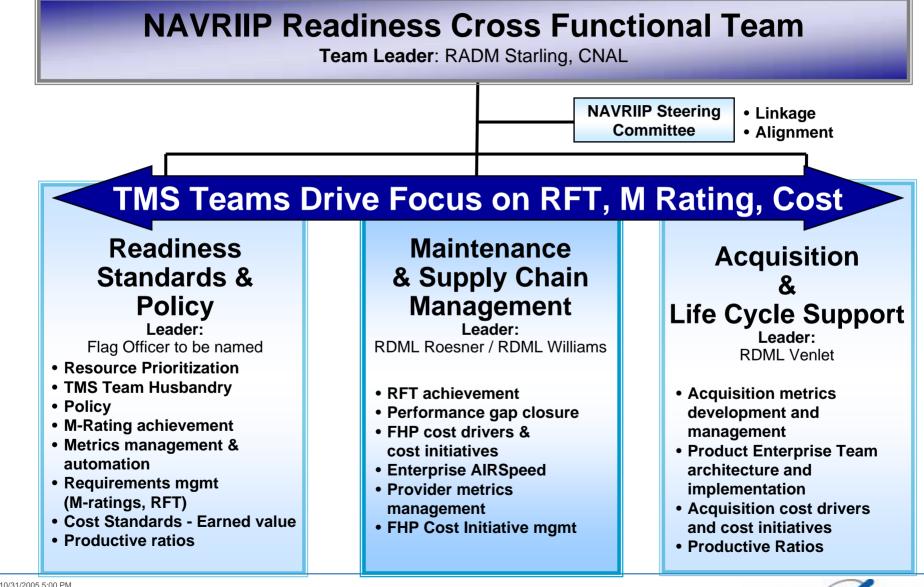




NAVAL AVIATION ENTERPRISE

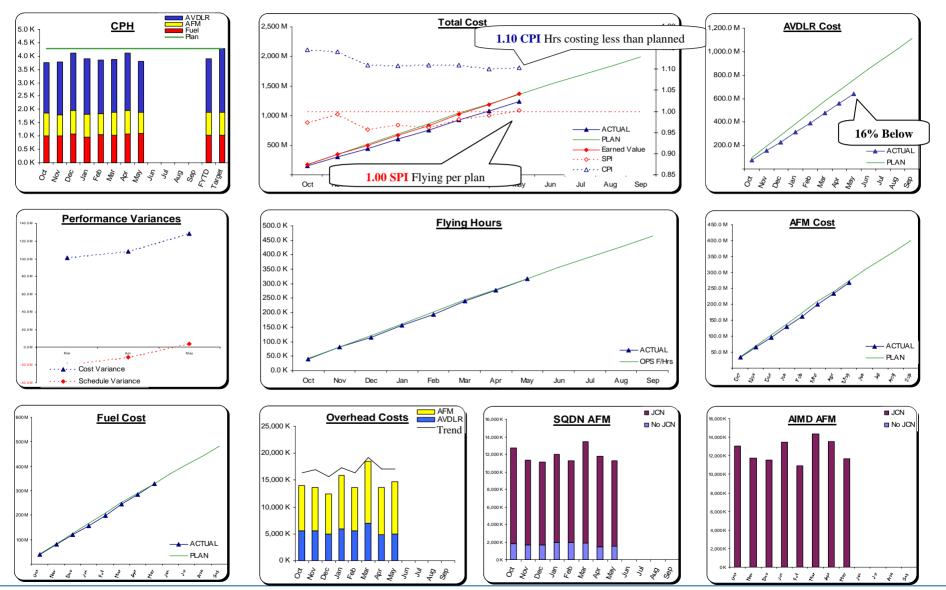


Naval Aviation Enterprise NAVRIIP CFT



NAV

FHP CNAF USN Direct Cost Example

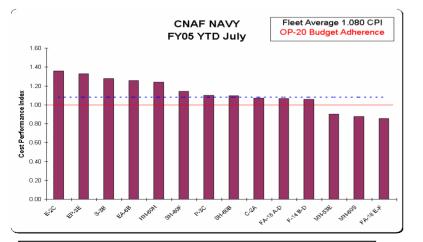


10/31/2005 5:00 PM AIR 6.0 Depot Airspeed vr9.PPT 5

NAVRIIP "Big Four" ROLLUP

READINESS

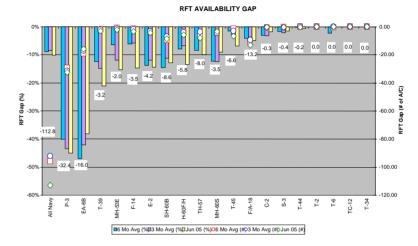
COST PERFORMANCE



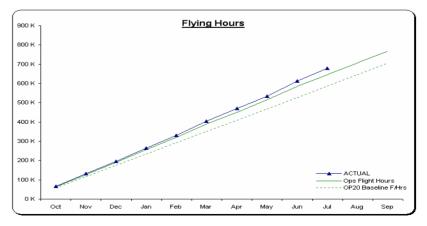
CPI = EARNED VALUE / ACTUAL TOTAL COST

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RFT AVAILABILITY GAP



FLYING HOURS PROGRAM







AIRSpeed Cherry Point Continuous Improvement

FLEET	Platform/ Engine	Reduction in TAT – Avg. (days)	WLS Change (hours)	Decreased Travel Distance (feet)	Workforce Size (Decrease)	Reduction in Depot WIP- Assets available to Fleet
	H-46	35	+3719	Pending AIRSpeedLean Events–on- going	No increase	11
	AH-1W PMI 1	9	+204	579,600	3	OIF
	T58GS16A	37	-6	2,120	2	6
	H-53	146	+ 1200	Pending AIRSpeedLean Events-on- going	Minimized Increases	16
	F402RR408A Repair Conversion	177	+162	186,800	1	14



North Island AIRspeed Deployment



• Components:	Pre-LEAN	Post-LEAN
	(TAT Days)	(TAT Days)
– Dynamic		
n Components	89	49
 F-18 Displays 		
(Kaiser PBL)	109	39
– Surfaces/		
Canopies	73	53
	m – Dynamic Components – F-18 Displays (Kaiser PBL) – Surfaces/	m - Dynamic Components 89 - F-18 Displays (Kaiser PBL) 109 - Surfaces/

– PMI 2 TAT reduced from 225 days to 180 days – PMI 1 TAT reduced from 100 days to 35 days

• C-2

-PMI 3 SLEP TAT reduced from 400 days to 300 days

 \$1.8M Savings to NAE in reduced execution hours on E-2 PMI 1 and PMI 2 events vs. FY06 funded workload Single Piece Flow and Synchronized Pull System Based on Fleet Flight-line Requirements

AIR Speed CLOSES SOME OF THE READINESS GAP



Jacksonville AIR Speed Value Delivered



• P-3

- Reduced TAT by 24 Days (225 Days to 201 Days)
- Improved Stability / Reduced Variability by over 40 Days (79 Std Dev to 69 Std Dev)
- > Sold 22 Aircraft vs. 19 Aircraft in FY04
- > Reduced WIP by 5 Aircraft (from 17 to 12)

EA-6B

- > Work in Process (WIP) Reduced from 17 Aircraft to 9
 - WIP reduction returned 2 Squadrons to the Fleet
- Aircraft Returned to Fleet Faster (FY04 vice FY05)
 - Reduced Cycle Time from 463 Days to 380 Days
 - Increased On-time Deliveries from 31 percent to 83 percent





F/A-18 Center Barrel Replacement (CBR+)
 > 16 percent reduction in TAT between first two deliveries

Engines

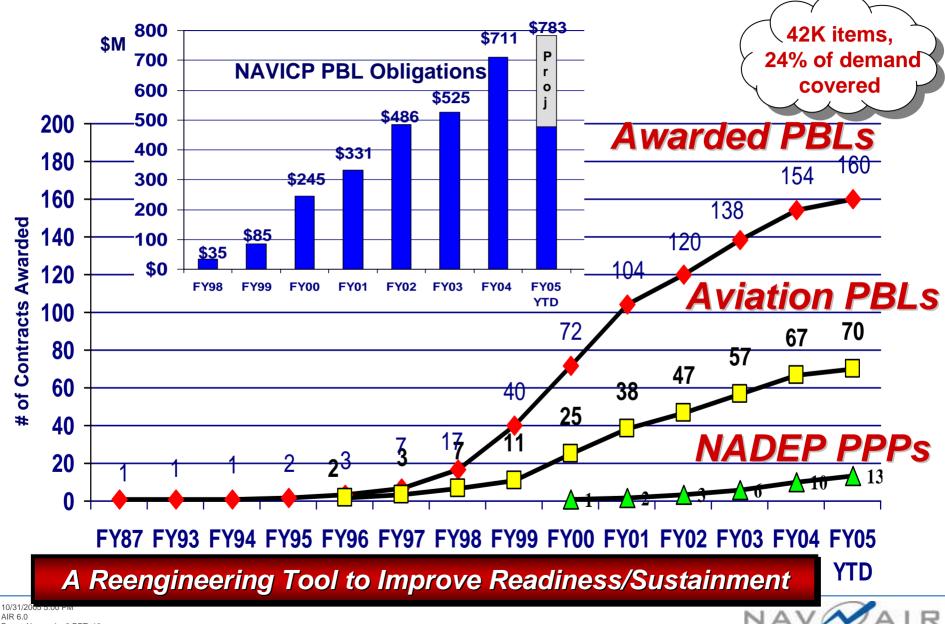
F414 Turn-Around-Time Reduced from 65 to 32 Days

- F404 Main Fuel Control System
 - Turn-Around-Time Reduced from 39 to 22 Days
 - Winner of the Honeywell Quest Award for Continuous Process Improvement





PBL Status Overall



Depot Airspeed vr9.PPT 10

Public-Private Partnering With the Depot

Achieving the Optimum Mix and Balance of Best Business Practices

OEM Expertise Supply Chain Management Tech Data Configuration Management Process Improvement Tools Subcontractor Management

Industry

Existing Infrastructure Environmental Permits Product Knowledge Strike Proof Skilled Labor Knowledge of Fleet Customers ISO Registered

Depot



10/3 AIR 6.0 Depot Airspeed vr9.PPT 11

FLEET READINESS CENTER "Approach"

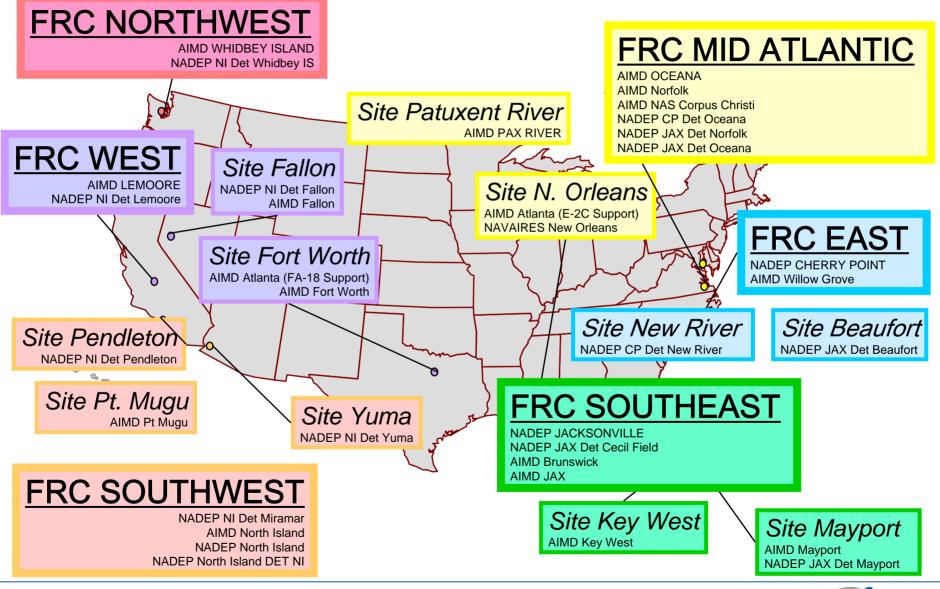
- Shift Maintenance Concept
 - Three Levels to Two
 - (On Flight Line Off Flight Line)
 - Move capability to fleet
 - Integrate I/D and optimize resource allocation
 - Shift "point-of-sale"
 - TMS Focus
 - Regional Alignment
- Remove Organizational White Space (ie. Improve Value Stream)
- Reduce Total System Cycle Time
- Employ Naval Aviation Enterprise Approach

MAJOR TRANSFORMATION IN THE DELIVERY OF AVIATION MAINTENANCE!



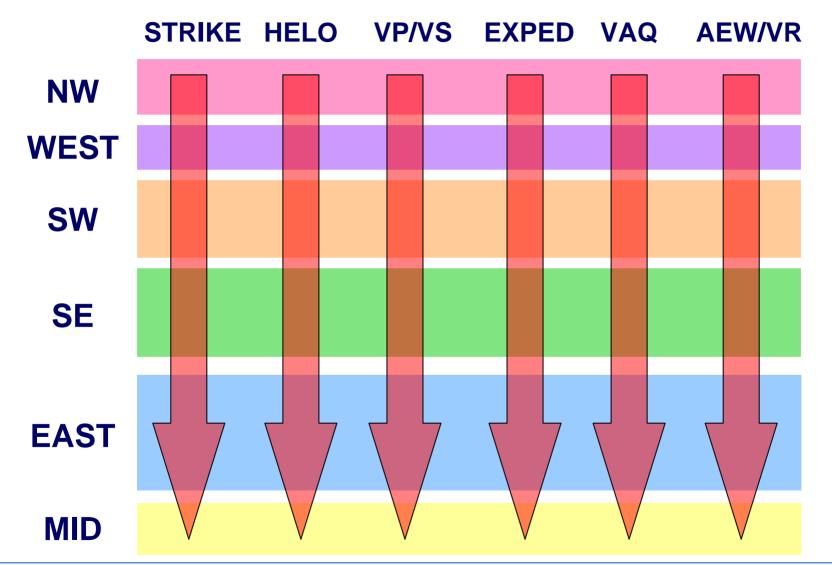
- Reduced Work Content
 - Eliminate Task Duplication
 - Reduce Material Requirements
- Improved Reliability
 - Centers of Excellence
- Less WIP in the system

FRC Regional Alignment



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TMS Team Alignment



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25 October 2005



Tuesday, 25 October



• 11:30 AM: Lunch

- Buffet in BJCC Exhibit Hall
- Walkway to BJCC from Sheraton atrium
- Identification badge required for entry

2:00 PM: 5 Breakout Sessions

- Located on 1st & 3rd floors (BJCC East Meeting Rooms)
- Sessions run concurrently—select only one
- 4:00 PM: Exhibit Hall opens
- 4:30–6:00 PM: Reception in Exhibit Hall
- 7:00 PM: Reception at Barber Vintage Motorsports Museum