



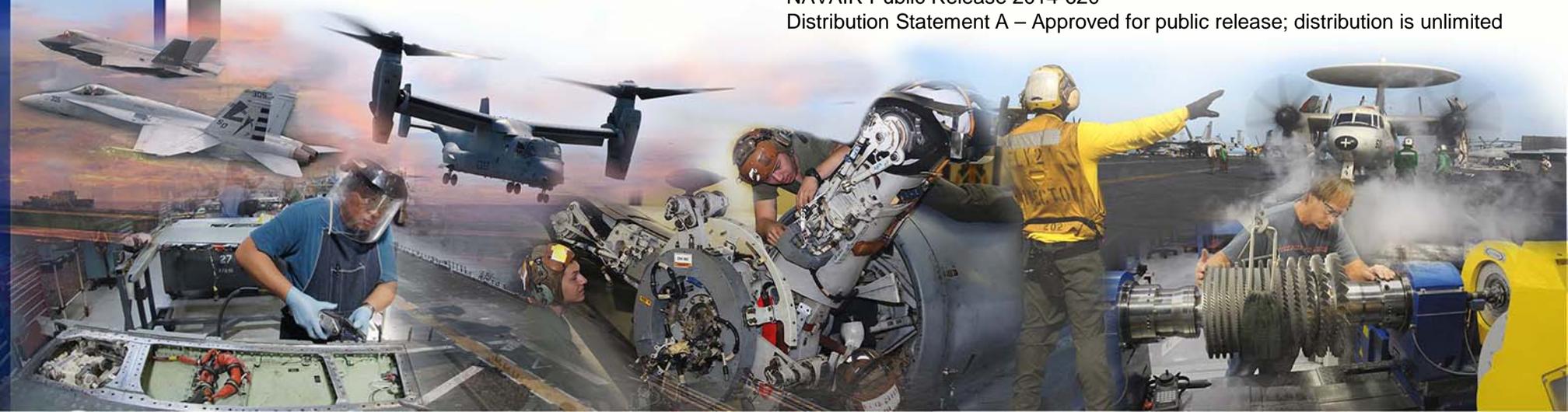
COMFRC Command Brief

24 July 2014

- **Presented By: Mr. West**
Deputy Commander Fleet Readiness Centers

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Commander, Fleet Readiness Centers Commands

AS OF 5 FEB 2014



— Direct Reporting
 - - - Technical Authority
 > Site HQ Location
 (OIC) Office in Charge
 (SL) Site Lead

Command	Commander	Deputy Commander	Site Lead
FRC SOUTHEAST CO CAPT JOHN KEMNA	FRC EAST CO COL BLAYNE SPRTLIN	FRC MID-ATLANTIC CO CAPT MIKE ZARKOWSKI	FRC SOUTHWEST CO CAPT DONALD SIMMONS III
FRC SOUTHWEST CO CAPT DONALD SIMMONS III	FRC NORTHWEST CO CDR HUMPHERY LEE	FRC WEST CO CDR RUSSELL DICKISON	FRC WESTPAC CO CDR MARK NIETO
FRC SOUTHWEST XO CAPT TIMOTHY PFANNENSTEIN	FRC NORTHWEST XO LCDR MICHAEL POLITO	FRC WEST XO LCDR JIM RORER	FRC WESTPAC XO LTCOL THOMAS ATKINSON
FRC SOUTHWEST CMC CMDCM PABLO CINTRON	FRC NORTHWEST CMC CMDCM BRIAN POLANSKI	FRC WEST CMC CMDCM WILLIAM PERKINS	FRC WESTPAC CMC (SEA) AZCS VON THOMAS
FRC SOUTHEAST XO CAPT CHARLES STUART	FRC EAST XO COL VINCENT CLARK	FRC MID-ATLANTIC XO CAPT JOSEPH RODRIGUEZ	FRC SOUTHWEST XO CAPT TIMOTHY PFANNENSTEIN
FRC SOUTHEAST CMC CMDCM LEONARD GAGE	FRC EAST 1STSGT 1STSGT TIMOTHY LEHRKE	FRC MID-ATLANTIC CMC CMDCM DALE ARNOLD	FRC SOUTHWEST CMC CMDCM PABLO CINTRON
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Naval Aviation Maintenance

Three Levels of Aircraft Maintenance

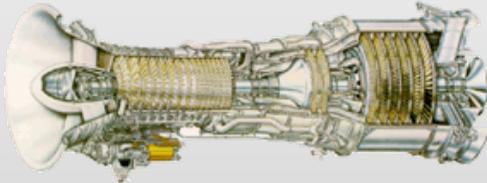


Organizational Level (Level 1)

- Squadron Level
- Servicing
- Replace Parts

On-Aircraft Maintenance

FLEET READINESS CENTERS



Intermediate Level (Level 2)

- Components / Engines
- Scheduled maintenance
- In-service Repair

Off-Aircraft Maintenance



Depot Level (Level 3)

- Scheduled maintenance
- Modifications
- In-Service Repair
- Field Team In-Service Repair
- Manufacture

* BRAC 2005 Initiative: Single Off-Aircraft Maintenance Organization (COMFRC)



FRC Products & Personnel FY13

COMFRC HQ

FRC ASE

SUPPORT EQUIPMENT (2769)
AHE, ATE/Groom & Tune, Avionics, AWSE, Cryo, OEM, Rolling Stock, Test Cells, Trailers & Platforms, Miscellaneous

FRC NORTHWEST

AIRCRAFT (23)
E/A-6B, E/A-18G
ENGINES (163)
T56, J52
COMPONENTS (18,323)
ALQ-99, E/A-6, canopies, components for above TMSs

Products

- 406 Aircraft Repairs
- 4,195 Engine / Module/Accessory Repairs
- 207,977 Component Repairs
- 2769 Support Equipment Repairs

Personnel

- Location**
- 16 Intermediate Level
 - 3 Depots + Overseas Operations
 - 10 sites detachments
- Personnel**
- 4,928 Sailors & Marines
 - 8,776 Civilians
 - 1,794 Contractors

FRC WEST

AIRCRAFT (14)
F/A-18
ENGINES (779)
F414, T56
COMPONENTS (31,731)
F/A-18 RADAR, composites, components for above TMSs

Location by State, Country/Territory

- **13 States:** Arizona, California, Florida, Hawaii, Louisiana, Maryland, Nevada, New Jersey, North Carolina, South Carolina, Texas, Virginia, Washington
- **6 Countries / Territories:** Afghanistan, El Salvador, Guam, Japan, Korea, Singapore

FRC MID-ATLANTIC

AIRCRAFT (50)
F/A-18, E-2, C-2, H-60
ENGINES (1332)
F404, T56, T700, T64, T400
COMPONENTS (56,401)
F/A-18 Electro-Optics, Radar, composites, E-2, C-2, H-60, H-1 C-130, EA-6B, Radar, instruments, components for above TMSs
VOYAGE REPAIR TEAM
Repair & Overhaul USN, USCG, FMS air capable assets and ALRE components

FRC WESTERN PACIFIC

AIRCRAFT (26)
H-53, C-130, E/A-6B, F/A-18, H-60, H-1 P-3, E-2, E/A-18G

* FRC SOUTHWEST

AIRCRAFT (127)
F/A-18, E-2, C-2, H-1, H-60, AV-8, H-53, MQ-8
ENGINES (251)
LM2500, T700, T56
COMPONENTS (36,761)
Instruments, E-2 radar, composites, components for above TMSs
VOYAGE REPAIR TEAM

* FRC SOUTHEAST

AIRCRAFT (87)
E/A-6B, P-3, F/A-18, H-60, T34/T44, T-6, MQ-8
ENGINES (1558)
T56, J52, TF34, F414, T700, F404
COMPONENTS (44,242)
Electro-Optics, air refueling stores, racks/launchers, components for above TMSs

* FRC EAST

AIRCRAFT (79)
AV-8B, H-53, H-1, EA-6B, CH-46, MQ-8
ENGINES (112)
T58, F402, T64, T400
COMPONENTS (20,519)
Dynamic components, rotor blades, props, blades/vanes, APU/GTC, components for above TMSs as well as E-2 and P-3 props

MAINTENANCE LEVEL



D – DEPOT

I – INTERMEDIATE

* Major Depot



Successful Partnerships



Partnership Agreements



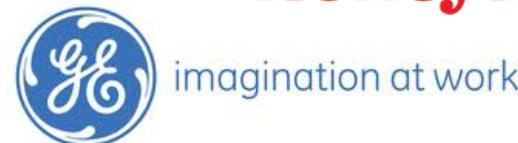
FRCE 16



FRCSE 33



FRCSW 27





Other Services

- **CONUS Field Repair Teams**
- **OCONUS Field Repair Teams**
- **ISRs (4789 in FY13)**
- **Fleet training certification**
 - Corrosion
 - Welding certification/recertification
 - NDI recertification
 - Micro Miniature Soldering
- **Engineering support to PMAs & production activities**
 - Acquisition & In-Service Support
 - REIs, EIs, LEs, ECPs, Stress Analysis
 - Flight Critical First Article Testing
- **Logistics**
 - Acquisition & In-Service Support
 - ECPs, Bulletin, TPDRs, MRC & Depot specification development and RCM analysis
 - All product support elements



FRC Challenges

- **Higher failure rates; new failure modes; real time emergent parts demand**
- **Obsolescence issues; vendor base decreases**
- **Lack of commercial interest in low volume complex work**
- **Increase pressure on organic manufacturing capability**
 - **Not designed for high volume manufacturing but produce 120,000 manufactured items per year.**
- **Digitizing the Fleet Readiness Centers**
 - **Ability to access and interpret 3-D models on the shop floor**
 - **Artisan skill set renewal**
 - **Establishment of the industrial network for data transmission**
- **Ability to capitalize on additive manufacturing**
 - **Investment strategy aimed at AM capability**
 - **Purposeful evolution of AM capability**
 - **Data Rights “Mandate”**
 - **Avoiding investments in re-learning what is already known**