

**Air Force Materiel Command**



*Mission Briefing*

2005



**"War winning capabilities... on time, on cost."**

**Air Force Materiel Command**

*Deliver War-Winning...*

- Technology*
- Acquisition Support*
- Sustainment*

*...Expeditionary Capabilities to the Warfighter*




Library Routing Slip 2005 BRAC Commission Materials

Title of Item: BRIEFINGS FROM BASE VISIT

Installation or Community: ROBINS AFB, GA

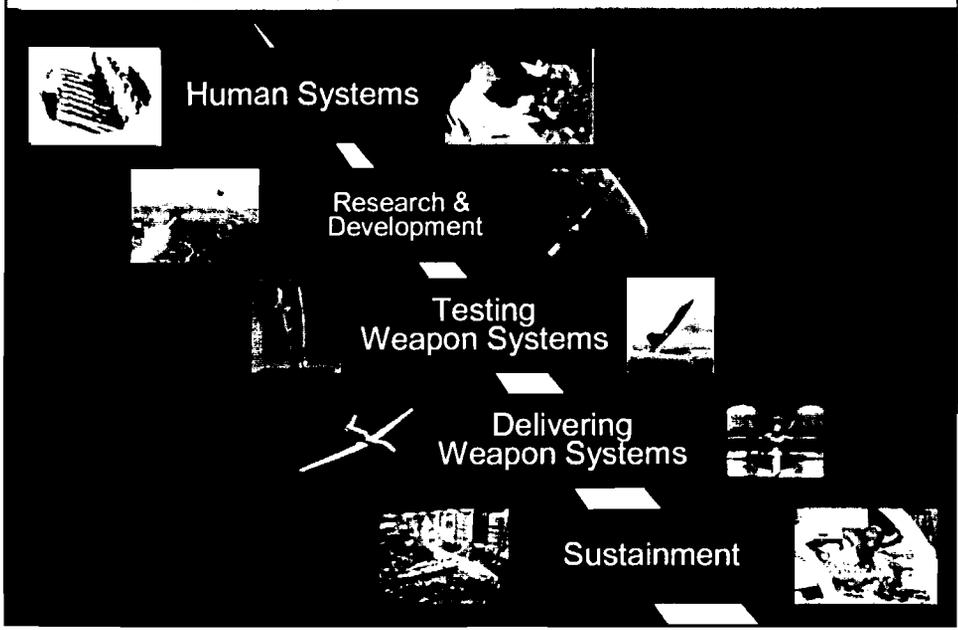
Source: INSTALLATION PROVIDED

Certified Material?  yes  no

Analyst / Provider: Tom MacBee Date Received: 29 JUN 05



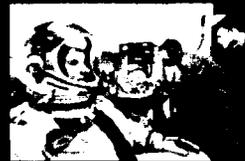
# AFMC - Span of Operations



# AFMC - The People



	<u>AFMC*</u>	<u>AF*</u>	
Officers	7,153	73,451	10%
Enlisted	16,022	291,926	5%
AF Civ.	56,306	141,326	40%
<b>Totals</b>	<b>79,481</b>	<b>506,703</b>	<b>15%</b>



\*31 Dec 04





# ROBINS AIR FORCE BASE and the WARNER ROBINS AIR LOGISTICS CENTER



*People First... Mission Always!*



## The Base...

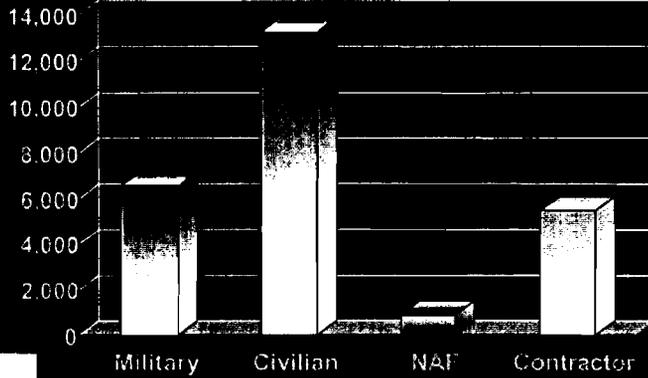
- Began in 1941 as an Army Air Depot
- Named in Honor of Brig Gen Warner Robins
  - Same as Town
- Located on 8,700 Acres of Land
  - 2,200 Acres of Wetland
- Annual Payroll Over \$1.2 Billion
- \$4.2 Billion Economic Impact Across Georgia



Georgia's Largest Industrial Complex



# Robins Air Force Base



**Over 25,000 Personnel**



# Warner Robins Air Logistics Center



Robins Air Force Base

Associate Units:

HQ Air Force Reserve Command

116<sup>th</sup> Air Control Wing

19<sup>th</sup> Air Refueling Group

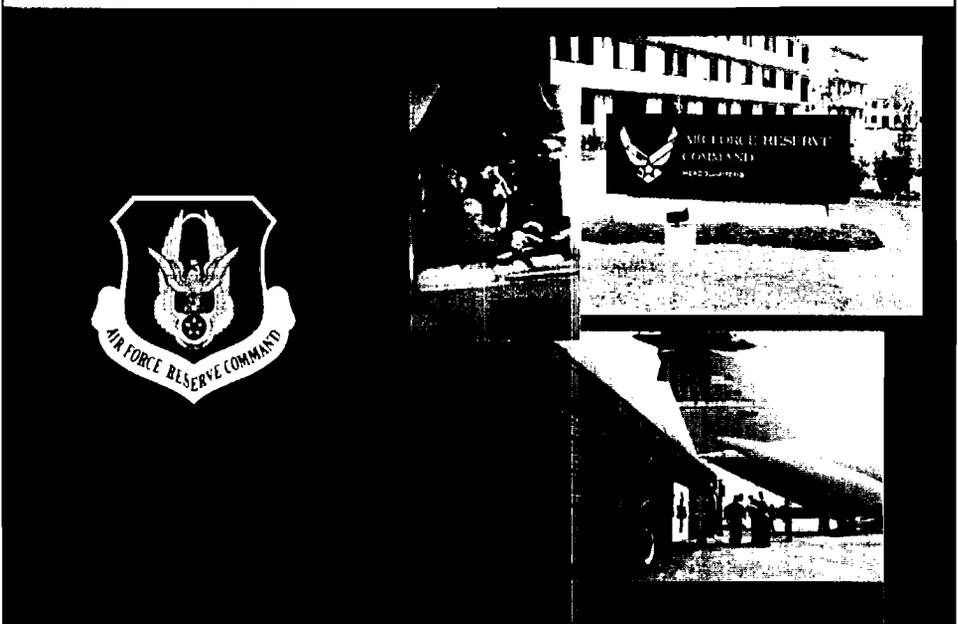
5<sup>th</sup> Combat Communications Group

Defense Distribution Center

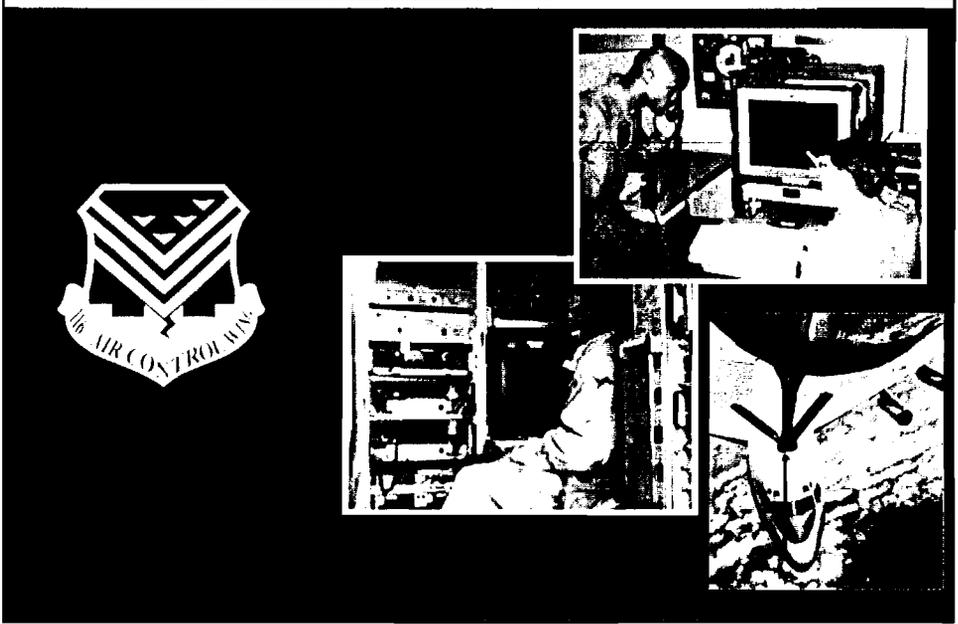
RAFB



 **HQ Air Force Reserve Command** 



 **116<sup>th</sup> Air Control Wing** 





# 19th Air Refueling Group



# 5th Combat Communications Group

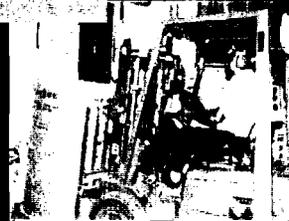
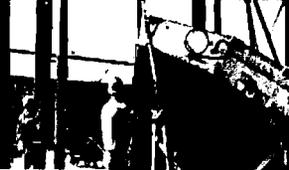




# Defense Distribution Center-Warner Robins



We Provide  
Worldwide Warfighter Support



# Warner Robins Air Logistics Center



**WR-ALC**  
**12,720**

**Civillan**  
**10,698**

**Military**  
**2,022**



## WR-ALC Mission



### • *The Warner Robins Air Logistics Center:*

-Sustains weapon systems and delivers ready combat capability to the warfighter through robust product support, purchasing and supply chain management, and depot maintenance activities

-Primarily focuses on the F-15, C-130, C-17, C-5, C-141, U-2, Joint STARS, Special Operations Forces aircraft, electronic warfare equipment, avionics, missiles, propellers, fuel, support equipment and vehicles

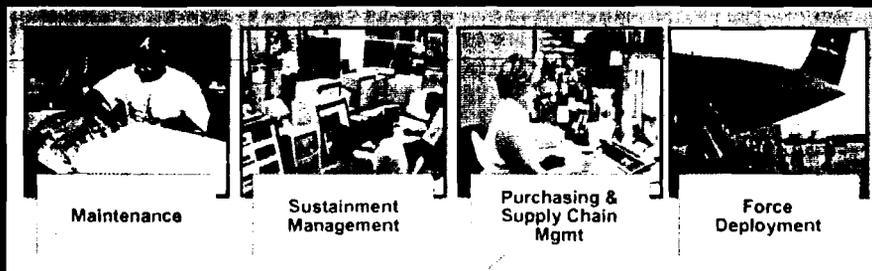
-Is responsible for software reprogramming and management of metrology and calibration services

-Provides Expeditionary Airmen to meet AEF commitments worldwide

-Is responsible for 4 Wings: 330 Aircraft Sustainment, 542 Combat Sustainment, 402 Maintenance and 78 Air Base Wings



## WR-ALC Missions Performed

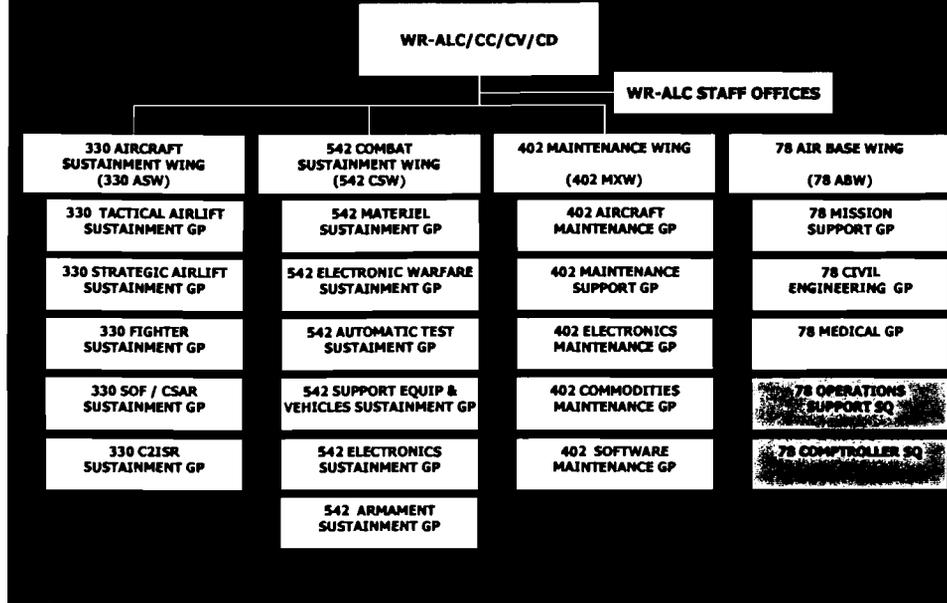


**More Than  
a "Depot"**

**Integrated Air Logistics Center**



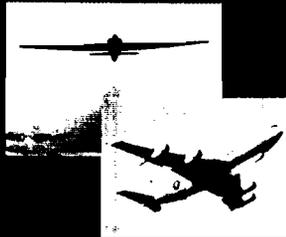
# WR-ALC Wing Structure



# 330<sup>th</sup> Aircraft Sustainment Wing



## C2ISR



- U-2 PM/SSM
- DCGS SSM
- E-8 SSM
- ICE-2 PM

## Tactical Airlift Sustainment



C-130

- USAF C-130s
- Foreign Military Sales aircraft

## Fighter Sustainment



F-15

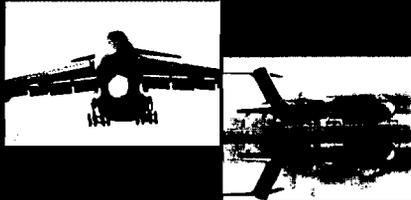
- All model sustainment
- Foreign military sales/support to Israel, Saudi Arabia, Japan, and South Korea



# 330<sup>th</sup> Aircraft Sustainment Wing

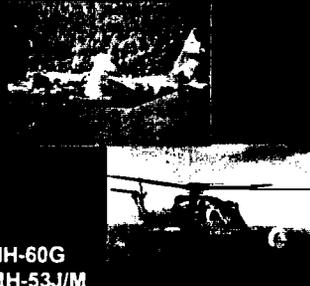


## Strategic Airlift



- C-5 Sustainment
  - RERP
  - AMP
- C-17 Sustainment
  - ACI/Mod
  - TSSR
- C-141 Sustainment

## SOF/CSAR



- HH-60G
- MH-53J/M
- Combat Talon I & II
- MC-130P Combat Shadow
- AC-130H
- HC-130P/N
- MC-130 H/E/P
- EC-130J
- AC-130U
- UH-1N
- UH-1H (Huey II+)



# 542<sup>d</sup> Combat Sustainment Wing

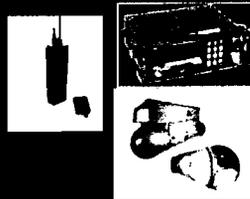


## Armament Sustainment



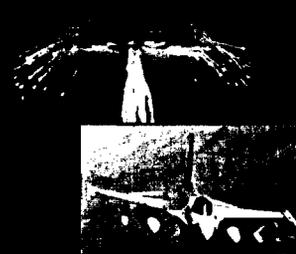
- Air Superiority Missiles
- Aircraft/SOF Guns
- Small Arms
- Aerial Targets
- Bomb Racks
- Special Programs

## Electronics Sustainment



- Common Avionics
- Intelligence
- Precision Attack SPO
- GPS JSSMO
- Airborne, Tactical Data & Ground Comm

## Electronic Warfare Sustainment



- Fighter EW systems
- Bomber EW Systems
- Airlift EW systems
- SOF EW systems
- Electronic attack systems
- Self-Protection systems
- FMS support
- PEO responsibility



# 542<sup>d</sup> Combat Sustainment Wing



## Automatic Test Sustainment



- Radar
- Electronic Warfare
- Precision Attack
- F-15 Avionics
- Airborne / Ground Communications
- Instruments
- Test Equipment
- GPS
- Avionics Mfg
- Precision Measurement Equip

## Support Equip/Vehicles Sustainment



- Vehicles
- BEAR Single Manager
- Munitions Materiel Handling Sys
- Aircraft Loaders/Materiel Handling Systems (463L)
- Automatic Test Systems / Equip
- Aircrew Life Support (Brooks ICP)
- Aerospace Ground Equipment
- Propulsion Equip (Hush Houses/ Test Cells)
- Gas Masks

## Materiel Sustainment



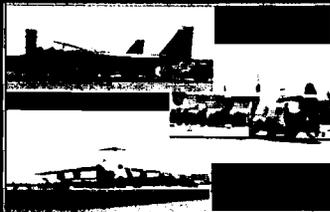
- Supply Chain Mgmt
- Commodity Councils
- Logistics Transformation
- Contract Depot Repair
- Logistics Support System Support
- Policy and Procedures



# 402<sup>d</sup> Maintenance Wing



## Aircraft Maintenance



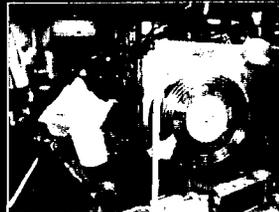
- C-5
- C-130
- C-17
- F-15

## Commodities Maintenance



- C-5 Flaps / Pylons
- C-130 Props / Radomes
- C-17 Landing Gear Doors
- F-15 Wings / Speedbrakes

## Maintenance Support



- Industrial Services
- Maintenance Materiel Support



# 402<sup>d</sup> Maintenance Wing



## Software Maintenance



- Test Program Sets
  - Avionics
  - Electronic Warfare
  - Support Equip
- Ops Flight Pgms
  - Special Ops
  - EW
  - F-15
  - JSTARS
  - GPS
  - JTIDS
  - Radios

## Electronics Maintenance



- Testing
- Modification
- Repair
- Calibration
- Demilitarization
- LRU and SRU maintenance
- Certification and Manufacturing



# 653<sup>d</sup> Combat Logistics Support Squadron



## Aircraft Battle Damage Repair



## Rapid Area Distribution Support





## 339<sup>th</sup> Flight Test Squadron



We Also Provide...



- Flight Test and Evaluation

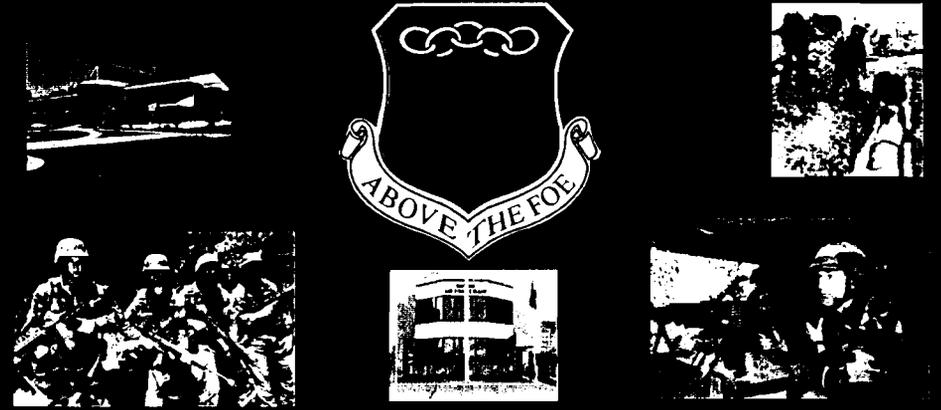
- Airworthiness determined on over 180 F-15, C-130 & C-5 aircraft per year
- 984 flight hours per year
- 789 flights



## 78<sup>th</sup> Air Base Wing



We provide trained, ready Airmen to support Air Expeditionary Forces and world-class base operating support to Robins Air Force Base





## 78<sup>th</sup> Air Base Wing



### 78<sup>th</sup> Mission Support Group

- 78<sup>th</sup> Communications Squadron
- 78<sup>th</sup> Contracting Squadron
- 78<sup>th</sup> Logistics Readiness Squadron
- 78<sup>th</sup> Mission Support Squadron
- 78<sup>th</sup> Security Forces Squadron
- Services Division

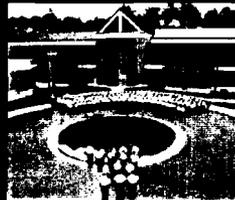


### 78<sup>th</sup> Civil Engineer Group

- Readiness/Disaster Preparedness
- Air Force Real Property
  - Facility Maintenance & Repair
  - Installation of Real Property Equipment
- Fire Protection
- Base Engineer Emergency Force (BEEF)
- Utilities



## 78<sup>th</sup> Air Base Wing



### 78<sup>th</sup> Medical Group

- Aerospace Medicine
  - Flight Med/Occupational Med
- Medical Operations Squadron
  - Family Med Pediatrics
  - Life Skills/Physical Therapy
- Dental Squadron
- Medical Support Squadron
  - TRICARE Resources
  - Pharmacy/Lab Radiology

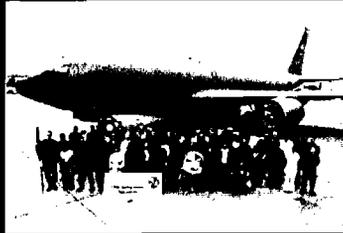


### 78<sup>th</sup> Operations Support Squadron

- Airfield Management
- Air Traffic Control
  - 40K+ flight ops / yr
  - 12,000 ft runway
  - Shuttle divert base
- Weather Functions
- Transient Alert
- Flight Records
  - Host 3 Commands
  - 1,200+ Aircrew Records



## 78<sup>th</sup> Air Base Wing



### 78<sup>th</sup> Comptroller Squadron

- Financial Services
  - Pay services to 6,500 military and 12,400 civilian employees
  - Accounting for \$3.6B/yr for the Center and 57 Associate Units
- Financial Management
  - Advises ABW/CC for management of all funds under his authority
  - Manages \$785M direct and reimbursement budget program
- Provides NAF financial oversight



## We Also Provide...



- **Air Force Metrology and Calibration Program Management**

- AFMETCAL Det 1 – Heath, OH



- **U-2 Flight Test**

- Det 2 – Palmdale, CA



- **Air Force Petroleum Office**

- AFPET Det 3 – Ft Belvoir, VA



## Wartime Support...



WR-ALC has been providing exchangeable surge support, depot repair support, and force deployments to Operation IRAQI FREEDOM, ENDURING FREEDOM, and NOBLE EAGLE since 18 Sept 2001.

WR-ALC Source of Supply support as of 22 June 2005

Received 180,657 requirements

Filled/shipped 179,592 units                      99%

WR-ALC Source of Repair support as of 22 June 2005

Received 38,675 units for repair

Filled 38,580 units                                      99%

Programmed Depot Maintenance SURGE as of 22 June 2005

6 SOF Aircraft Accelerated

UDLMs: 108 (67 C-130, 24 C-5, 10 F-15, 7 C-17)

Force Deployments through FY 05 as of 22 June 2005

FY 01 - 853                      FY 04 - 2,460

FY 02 - 2,861                      FY 05 - 888                      8,450

FY 03 - 1,388



## Awards



### 78<sup>th</sup> Services Division

AF Services 5-Star Fitness Program of the Year-2004  
(3 consecutive years)

### 78<sup>th</sup> Environmental Management Flight

White House Closing the Circle Award for Pollution Prevention- 2004

White House Closing the Circle Honorable Mention for EMS- 2004

AF Gen Thomas D. White Pollution Prevention (Industrial)-2004

Robins AFB-Top 5 Facilities of the Year Award- 2004  
Ranked by Environmental Protection Magazine



# Awards



## 778<sup>th</sup> Civil Engineer Squadron

AF Outstanding Community Planner of the Year-2004

Mr. Hayden Hinton

Federal Engineer of the Year Award-2004

Ms. Nancy Manley

## 78<sup>th</sup> Air Base Wing Public Affairs

DoD-Thomas Jefferson Award for Best Commentator-2004

Mr. Geoff Janes

AF Best Metro-Format Base Paper

Rev-Up

AF Best Graphic-2004

SSgt Brian Bahret

AF Runner-Up for Best Photography of the Year-2004

Ms. Sue Sapp



# Awards



## 78th Medical Group

AF Airman Pharmacy Technician of the Year-2004

CMSgt Michael A. Gambuti

## 402d Maintenance Wing

Level V Certification-Capability Maturity Model Integration (CMMI) Award

2003 Air Force Productivity Excellence Award

F-18 CID Team-AF Productivity Excellence-2004

402 SMXG

## Dr. James G. Roche Sustainment Excellence Award-2004

Joint STARS System Support Division of the 330th Command

And Control, Intelligence, Surveillance, Reconnaissance Group



# Awards



## Air Force Communication and Information Awards-2004

Lt Col Carl F. Unholtz, Jr.-FGO Category  
SrA Bryan E. Allebone-3C AMN Category  
SrA Michael R. Stegen-2E AMN Category  
MSgt William G. Kregeloh-IA Professional  
78<sup>th</sup> Communications Squadron Network Security-IA Unit

### WR-ALC/EN

Junior Civilian Engineer of the Air Force-2004  
Peter Christiansen

### WR-ALC Small Business Office

SECAF Small Business Award-2004



# Awards



### WR-ALC/PK

SAF Professionalism in Contracting-Supervisory-2004  
Ms. Christine Clark

AF Contracting Special Recognition Award-2004  
ESC Strategic Sourcing

## CINC Awards for Excellence-Special Recognition Awards

Captain Eric Queddeng  
Captain Thomas Veselka  
Mr. Gregory Williams  
Master Sergeant Michael Davis  
Staff Sergeant Ryan Graves  
Technical Sergeant Paul Mitchell  
Technical Sergeant Renee Brown  
Technical Sergeant Richard Kittle  
Ind. Prime Vendor Team  
Museum of Aviation



# Awards



## Air Force Distinguished EEO Awards-2005

Supervisory Action  
Ms. Karen R. Johnson

Hispanic Employment Program  
Mr. Desiderio R. Maldonado



# Our Museum of Aviation...



## Hallmark -- Exhibit and Education Center

- Built With Partnerships
- Fourth Largest in US
- Over 720,000 Visitors Annually
- National Award Winning Education programs
- 93 Aircraft & Missiles
- Largest Tuskegee Airman Exhibit in the World
- 200,000 sq. ft. of Indoor Exhibits



**A U.S. Air Force - Community Partnership**



## BRAC 05 BRAC ACTIONS



WARNER ROBINS AIR LOGISTICS CENTER

MISSION	SCENARIO #	FY	DISCUSSION
19th ARG – Transfer To McConnell AFB	USAF 0120	09	Under Review
NAS Atlanta Transfer Marine/Naval Reserve Mission	DON 0068AR	08	Timing Issue With The 19 <sup>th</sup> ARG Departure
Rotary Wing D&A Transfer To Redstone	TECH 0005R2	07	Mission/Manpower Being Refined
Fixed Wing D&A Transfer To WP	TECH 0006R2	07	Mission/Manpower Being Refined



## BRAC 05 BRAC ACTIONS



WARNER ROBINS AIR LOGISTICS CENTER

MISSION	SCENARIO #	FY	DISCUSSION
Restructure Wholesale & Retail Storage & Distribution	S&S 0051R S&S 0048	07	Mission/Manpower Being Refined
DLR / Consumable Items To DLA	S&S 0035R	08	Mission/Manpower Being Refined
CPO - Transfer To Randolph	HAS 0031	10	Mission/Manpower Being Refined
AFRC - Recruiting Service Slots to Randolph	HAS 0145	11	Under Review



# **BRAC 05 BRAC ACTIONS**



WARNER ROBINS AIR LOGISTICS CENTER

<b>MISSION</b>	<b>SCENARIO #</b>	<b>FY</b>	<b>DISCUSSION</b>
202 <sup>nd</sup> EIS	USAF 0120	07	Under Review
Cryptologic Systems Group (CPSG)	S&S 0035R	08	Mission/Manpower Being Refined
HSW located @ Brooks AFB	Brooks City Base	08	Under Review

# **Warner Robins Air Logistics Center**

WARNER ROBINS AIR LOGISTICS CENTER



## **Lean Implementation**



## **History of Lean at WR-ALC**



WARNER ROBINS AIR LOGISTICS CENTER

- WR-ALC was a DoD pioneer in initiating implementation of Lean principles
- Selected by Air Force's Manufacturing Technology (ManTech) Program to prototype and adapt Lean Manufacturing to depot maintenance
  - Lean Depot Repair (LDR) Program
- LDR Program Manager selected Warner Robins because of their can do attitude, commitment, and enthusiastic support

*People First...Mission Always*



## Key Milestones



WARNER ROBINS AIR LOGISTICS CENTER

- May 1999 - WR Lean journey began in F-15 Avionics and Wing Shops
- Mar 2001 - Lean expanded to all aircraft depot maintenance areas (F-15/C-5/C-130/C-141) and the LANTIRN depot activity
- Sep 2002 - Lean deployed beyond the aircraft production floor and across the Air Logistics Center
- Jan 2003 - Lean events expanded to include enterprise level activities
- Oct 2004 - Strategic Alignment and Deployment implemented to align Center goals and objectives



## Methodology



WARNER ROBINS AIR LOGISTICS CENTER

- Center Lean methodology
  - Lean is the overall umbrella for Continuous Process Improvement (CPI)
    - Incorporates CPI activities such as Benchmarking, Six Sigma, and Theory of Constraints
  - Developed/standardized Lean model
    - Certified training program
    - Standard Work Guide
    - Lean Organizational Assessment
    - Strategy Alignment and Deployment



## Center Wide Examples



WARNER ROBINS AIR LOGISTICS CENTER

➤ Enhanced combat capability...iron on the ramp

	<u>Pre-LEAN Performance</u>	<u>Post-LEAN Performance</u>
• C-5		
- Flow Days	339	240
- On-time delivery	40%	100%
- Avg Monthly ton miles capability increase		145K A Model 338K B Model
• F-15		
- Flow Days	124	116
- On-time Delivery	57%	79%
• C-130		
- A/C produced/yr	32	46
• C-17 Thrust Reverser Mod		
- Flow days	70	56

Energy down to 100



## Center Wide Examples



WARNER ROBINS AIR LOGISTICS CENTER

➤ Enhanced combat capability...more parts on the warfighter's shelf... increased efficiency and capacity at the depot

	<u>Pre-LEAN Performance</u>	<u>Post-LEAN Performance</u>
• F-15 Wing Shop		
- Overtime	8K hrs/mo	3K hrs/mo
- Inspection Hours	30 hrs/wing	2 hrs/wing
• C-5 Floorboards		
- Produced/mo	11	52
• LANTIRN		
- Receiver/Transmitter		
• Produced/mo	7	15
• Staffing	8	5
- NSESA Staffing	14	8
• Flow day reduction		10
- Radar Transmitter		
• Flow day reduction		50



## Center Wide Examples



WARNER ROBINS AIR LOGISTICS CENTER

	<u>Pre-LEAN Performance</u>	<u>Post-LEAN Performance</u>
• AN/APQ-122 Radar		
–Flow day reduction	60	33
• ALC-56C Radar Warning Receiver		
–Produced / wk	20	80
• ARC-164 Radio		
–Back orders	174	3
–Flow days	15	7



## Center Wide Examples



WARNER ROBINS AIR LOGISTICS CENTER

### ➤ Lean at Robins is Center-wide

	<u>Pre-LEAN Performance</u>	<u>Post-LEAN Performance</u>
• U2 field service travel request		
–flow days	2.77 days	48 min
• Personnel Office		
–Fill actions/mo	52	170
–Flow days	77	36
–Overtime hours/mo	621	374
• Dental Clinic		
–Patient service per dentist/hr	1	2
–Appt wait time days	28	3-5 target