

Program Support

Mission Success



U.S. AIR FORCE

CLS AIRCRAFT SPO

13 Jan 03
Air Force Line Reports

OPERATION ENDURING FREEDOM -- A KC-10

Extender casts an eerie glow through night vision goggles while taking on fuel from a second KC-10 over Afghanistan Jan. 9. The operation was part of the 3000th KC-10 sortie flown by the 44th Expeditionary Air Refueling Squadron in support of Operation Enduring Freedom. The 44th EARS is currently based at Al Udeid AB, Qatar.
(Photo by 2nd Lt. Marcella Keiter)

KC-10 Enduring Freedom Initiatives



- **KC-10 Depot Repair**
 - Working daily with customer and contractor to ensure aircraft stay on track
 - Any additional unscheduled maintenance has minimal impact to delivery schedule
 - Realignment of paint schedule
 - Allowed two aircraft to deliver 30 days early and meet critical mission requirements
 - Paint will be rescheduled with minimal impact
 - At no cost
 - Will decrease depot schedule by 2 aircraft



Providing Effective and Efficient Weapon System Support

KC-10 Operation Initiatives



- **Flew 117,205.5 hours since OEF/OIF began**
 - Average increased from 3,748 in FY01 to 6,511 FY02/FY03
 - Off loaded > 450,000,000 lbs of fuel to over 30,000 aircraft
 - Each sortie lasted an average of 6 hours



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KC-10 Operation Initiatives



- **Forward Operating Locations (FOLs) supported 10-12 daily sorties**
 - 24/7 O-level maintenance and supply support
 - 6 Boeing FSR's & Logisticians deployed to support OEF/OIF & other FOLs
 - 4 GSE specialists positioned to support deployed locations
- **Worldwide commercial support infrastructure**
 - Significantly enhanced support posture
 - Reduced transport time on items shipped to theater of operations



KC-10 Operation Initiatives



- **Increased MSK/ESK parts support by over 350%**
 - Expedited procurement of \$1.8M in additional Support Equipment (SE) to support OEF & OIF
 - Expedited procurement of \$14M in additional spares to support up to 11 Mission Support Kits (MSK) & Enroute Support Kits (ESK)
- **Major concern: parts recovery & bringing them home**

Support Trailers Erected



COMBS

Contractors, On-Site



This 24/7 FOL Operational in Minimal Time

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KC-10 Operation Initiatives



- **During OEF/OIF, KC-10 conducted 2 major, fleet-wide ADs & 1 major safety inspection**
 - Fuel pump inspection
 - Wiring Chaffing
 - Engine cowling hinge bolt
- **Numerous aircraft repairs: Horizontal Stab, Fan Cowl**
- **Minimized operation impact to flying schedule**



Providing Effective and Efficient Weapon System Support

C-21



Providing Effective and Efficient Weapon System Support

C-21A Program Description



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- **Commercial-derivative aircraft; average fleet age = 17 yrs**
 - **Peacetime**
 - DV transport
 - Pilot seasoning
 - Medevac transport
 - Moves high-priority cargo
 - **Wartime**
 - Command/staff transport
 - Small parts logistic pipeline
 - MX personnel, intelligence material and medical support transport
- **Bombardier Learjet Model 35A, Twin Turbofan Allied Signal TFE 731-2-2B engines**
- **Fleet size: 76 a/c supporting 6 commands at 12 sites**
 - AMC 50 - AFFSA 2
 - AETC 5 - PACAF 4
 - USAFE 13 - ANG 2



Providing Effective and Efficient Weapon System Support

C-21A Program Description



- **CLC - Vertex Aerospace LLC, Madison, MS**
 - Organizational maintenance
 - Depot maintenance
 - Depot inspection/repair
 - Modification installs
 - Major component overhaul
 - Paint
 - Field team support
 - COMBS
- **Engineering services - Bombardier Learjet - Wichita, KS**
 - Modification design effort
 - Service bulletins
 - Low cost mods
 - Design, prototype, & verification
 - Sustainment engineering
 - Technical assistance/support
 - Technical data



C-21 SWA Support



- **C-21 deployed in support of SWA ops**
 - Full CLS maintenance presents challenges to site set-up
 - Vertex provides mission support
 - CENTAF support to Vertex varies due to absence of support agreement
- **AF & Vertex partnered to provide seamless support despite challenges:**
 - Backlogged spare parts: transfer point & customs
 - Accommodations for contractor support personnel
 - Country/Access visas



C-21 Wartime Mission



- **In-theater transports incur Over & Above damage exceeding peacetime mission rates**
 - Excessive/Over-sized cargo
 - Frequent transport
 - Damage beyond field-level repair
- **Drives unscheduled depot repairs**
 - Creates scheduling challenges
 - 90-day rotation a/c in & out of theatre



C-21 SWA Support



1. Panel at passenger entry
2. Fuselage overhead air
3. Fwd panel at passenger entry
4. Carpet seam at passenger seat base

Maintenance Issues at SWA



- **Spare parts & kits shipped to Deployed Operating Location (DOL), SWA**
 - CONUS COMBS/parts distribution center ships to Commercial transport to Ramstein's TMO
 - Green Sheets identify MICAPs for expediting
 - Multiple platforms use same practice
 - C-21 “high priority shipments” can't compete with other programs of same status
 - Parts eventually routed to the C-21 DOL (2 months)
- **Standard practice resulted in below-standard backlogs**
 - Insufficient spare levels at DOLs resulted in higher than normal cannibalization rates

Recently, Ramstein's TMO issues resolved!

Vertex, AF partnered for on-time parts shipment

Providing Effective and Efficient Weapon System Support



Summary



- **CLS creates unique challenges for deployed ops**
 - Customs, visas, billeting, supply access
- **Resolved through teamwork**
 - Contractor, SPO, MAJCOM, Deployed personnel