

2005 REQUIREMENTS SYMPOSIUM



**BREAKOUT TOPIC:
ALR-56A 5A4 Multiplexer
(VCO) Redesign**

**542d
Electronic Warfare
Sustainment
Group (EWSG)**

Briefer: Lt Jason Reyes

Title: ALR-56A Program Manager



Overview



- Brief Program / Issue Description
- Current Status of Program / Issue
- Acquisition & Sustainment Strategy
- Unfunded Requirements
- Technology Insertion Roadmap/Plan
- Government Focal Points
- Summary



Brief Program / Issue Description



- Redesign of ALR-56A Multiplexer (VCO) NSN: 5865-00-477-5936EW
- DMS Issues and Poor Reliability
 - High condemnation rate – 60%
- Existing unique/complex design difficult to repair
- ALR-56A installed on over 100 F-15A/B aircraft



Current Status of Program / Issue



- No organic/contract repair capability exists
 - Support provided from cross-cannibalization
- FY06 MSD Engineering budget submitted for funds
 - HQ/AFMC validated requirements
- Increased system operation time has increased requirements for hardware



Acquisition & Sustainment Strategy



- Full and Open Competition for Redesign of Multiplexer (VCO)
- Award to Best Value Offeror
- F/F/F replacement with no impacts to ATE, LRU-6A, and ALR-56A system
- Full up qualification effort would have to be accomplished before hardware qualified
- Purchase spares and determine SOR through SORAP



Unfunded Requirements



- Program
 - 100 redesigned production Multiplexers (VCOs)
- Schedule
 - Need date of operational capability: 18 months after award date
- Funding & Execution Probability
 - \$800,000 budgeted for FY06 MSD Engineering funds
 - Execution probability is high, AFMC-validated requirement
 - \$2,000,000 production requirement is estimated based on half of the latest acquisition cost with higher reliability COTS components



Technology Insertion Roadmap/Plans



- Issues
 - 1960's technology
 - Difficult to maintain
 - Complex design

- Options
 1. Redesign of Multiplexer (VCO) using improved technology
 - Take advantage of new manufacturing processes
 2. Replace Multiplexer (VCO) using solid state technology



Government Focal Points



- POC: Lt Reyes, jason.reyes@robins.af.mil, (478) 926-2265
- Contracting POC: Rick Yeager, rick.yeager@robins.af.mil, (478) 926-4101



Summary



- 5A4 Multiplexer (VCO) is old hardware and must be re-designed
- Funds budgeted for FY06
- Full and open competition to be used
- Re-designed VCO must be F/F/F replacement