

# 2005 REQUIREMENTS SYMPOSIUM



**BREAKOUT TOPIC:  
AN/ARC-164  
and  
LCD Issues**

**542d  
Electronics  
Sustainment  
Group (ESG)**

**Briefer: Jerry Dudley**

**Title: Program Manager**



# Overview

---



- Program Description
- Current Status of Program
- Acquisition & Sustainment Strategy
- Program Requirements Roadmap
- Funded Requirements Not on Contract
- Program Budget
- Unfunded Requirements
- Program Challenges/Opportunities
- Areas / Issues Needing Improvement or Assistance
- Technology Insertion Roadmap/Plan
- Government Focal Points
- Summary

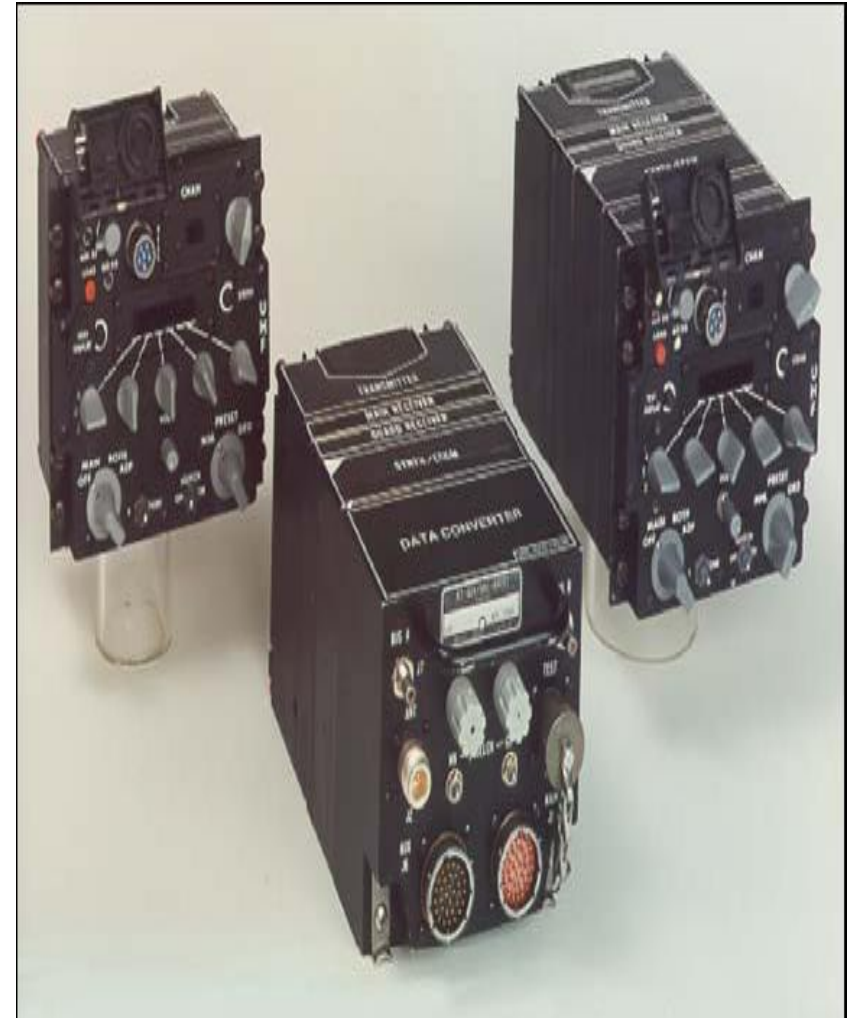


# Program Description



## AN/ARC-164

- Radio OEM is Raytheon working in conjunction with Lockheed installing radios on F-16's
- Major sustainment issue is LCD production/repair
- Back orders are high
- Govt. does not own tech data for LCD nor data for manufacturing techniques

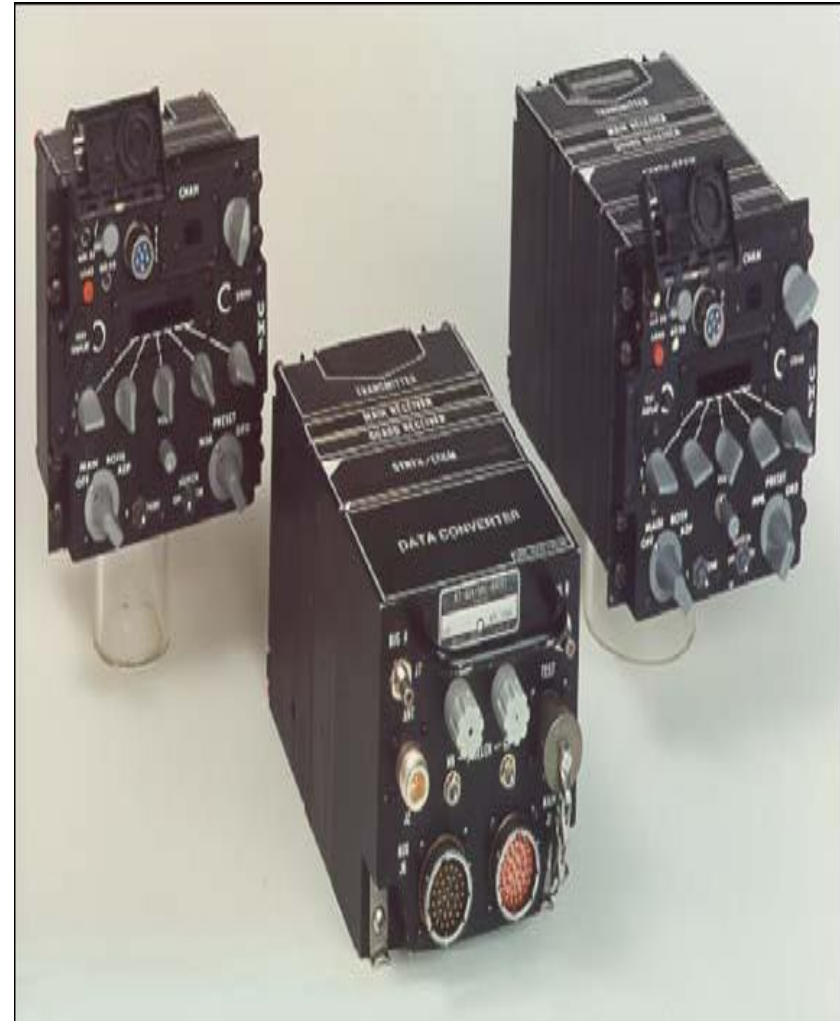




# Program Description



- AN/ARC-164
  - System Widely Used on many AF Weapon System Platforms, Joint Service, and Multiple FMS users
  - LCD is defined as transfective dichroic liquid crystal display module (2 & 6 digit)
  - Govt. does have performance Specs for LCDs





# Current Status of Program

---



- LCDs
  - Systems will continue to be active through 2025
  - Reparable items are contractor repaired
  - UV conditions and physical abuse cause premature failures of LCDs for both 2 and 6 digit displays



# Acquisition & Sustainment Strategy



- **Contracting Strategy**
  - Sole Source
- **Data Rights**
  - LCD OEM Proprietary
- **Program Phases**
  - Presently any changes/improvements in radio are verified by Robins AFB and maintained to support US requirements and FMS countries.
- **Sustainment**
  - Contractor Support



# Program Requirements Roadmap

---



- No Research and Development Budget
- Spares for displays--presently IMS is not in buy position
- Engineering: TBD, various options under review
- Repair: Approximately \$600-700K per yr.



# Funded Requirements Not On Contract

---



- N/A



# Program Budget AN/ARC-164

---



Repair of LCDs for ARC-164 is averaging \$650,000 per year give or take \$50,000



# Unfunded Requirements AN/ARC-164

---



Presently program does not have unfunded requirements



# Program Challenges / Opportunities



- **Sustainment till 2025**
  - Supply of aging parts
  - Keep up with technology
  - Work to maintain Configuration Control
- **Increase usage due to aging of radio and Global War on Terrorism (GWOT)**
  - Various AF weapon systems, Joint Service, and Multiple FMS users
  - **Repair production to meet increase in rqmts**

## Growth Opportunities

Future of LCD use in military applications is growing due to newer optics and ever increasing use of night vision technologies



# Program Challenges / Opportunities



- Sustainment till 2025
  - Supply of aging parts
  - Keep up with technology
  - Work to maintain Configuration Control
- Increase usage due to aging of radio and Global War on Terrorism (GWOT)
  - Various AF weapon systems, Joint Service, and Multiple FMS users
  - Repair production to meet increase in rqmts

## Growth Opportunities

Future of LCD use in military applications is growing due to newer optics and ever increasing use of night vision technologies



# Program Challenges / Opportunities

---



- **Growth Opportunities**

- Future of LCD use in military applications is growing due to newer optics and ever increasing use of night vision technologies
- Presently ARC-164 is primary UHF Anti-Jam radio used across many weapon system platforms, both fixed wing and rotary wing aircraft, ground support equipment, vehicles, Joint Service, and multiple FMS users
  - NOTE all of whom use the LCD modules
  - ARC-164 Radio inventory is very large



# Area / Issues Needing Improvement or Assistance

---



- Develop Second Source of Supply
  - For both the 2 and 6 digit LCD displays
    - Issues are no drawings
    - No Manufacturing data or techniques—proprietary
      - Build to Performance Spec or Reverse Engineer
- Need Reduction in Back Orders



# Technology Insertion Roadmap/Plans

---



- No Issues Presently for Technology Insertion



# Government Focal Points



- **Program Manager**
  - Jerry Dudley, Program Manager, GBECA, 478-926-9419
- **Equipment Specialist**
  - Joyce Gilmore, Equipment Specialist, GBECA, 478-926-2277
- **Inventory Management Spec.**
  - John Bryant, IMS, GBECI, 478-926-4036
- **Production Management Specialist**
  - Cheryl Lashley, GBECA, 478-926-7646
- **Engineer**
  - Brian Dumford, System Engineer, ESG/ENC, 478-926-7641
- **Subject Matter Expert (SME)**
  - Bill Thomas, SME, ESG/ENC, 478-926-9425



# Summary



- Systems will continue to be active through 2025
- Increase usage of this system is likely due to FMS sales of F-16 and large # of users
- Growth potential is strong for LCD rqmts