

# 2005 REQUIREMENTS SYMPOSIUM



## Automatic Test Sustainment Group Competitive Requirements

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# Disclaimer



The following are projected future requirements based on best available data.

Mission priorities and funding availability will influence actual contract award.



# Overview



- WHAT WE DO
- ATS REQUIREMENTS
- ACQUISITION & SUSTAINMENT STRATEGIES
- ADVICE / RECOMMENDATIONS TO INDUSTRY



# What We Do



## Identify, Acquire and Sustain Automated Test System/Equipment (ATS/E) capabilities across the Air Force Enterprise

- **Identify Test Capabilities:** We assist our customers in identifying a test capability to meet their test requirements
- **Acquisition:** We acquire and provide our customers with a test capability which will meet their testing requirements
- **Sustainment:** We maintain the test capability our ATS customers require



# ATE/S Requirements

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- ATE/S Buy Requirements & Funding Estimates
- Funded Program Engineering Support Requirements
- Unfunded Integrated Engineering & Technical Support Requirements



# ATE Requirements



## OVERVIEW - ATE BUY REQUIREMENTS

- **Overview**

ATSG has a number of various buy requirements for ATS equipment items such as Test Set Instruments, Maintenance Kits, Radio Test Sets, Calibrators, Oscilloscopes, Power Supplies, Signal Generators, Transponders, etc. Detailed Spreadsheet Available Upon Request

- **Estimated Buy Funding Requirements**

<u>Equipment</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>
	6.6M	8.5M	5.9M	6M



# ATS Requirements



- **Program:** CAPRE (Laptop only)
- **Scope:** CAPRE will replace the Digital Computer System (DCS) and a variety of Program Loader Verifier/Memory Loader Verifier (PLV / MLV) devices, CAPRE supports a wide variety of weapons systems, platforms, Line Replaceable Units (LRU) and Support Equipment (SE) The current plan is to support 1600 CAPRE systems and 60 Aircraft Adapter Groups (AAGs)
- **Schedule:**

	<u>FY 06</u>	<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>
	100	100	100	100
- **Budget:**

	640K	640K	640K	640K
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- **POC:** Sheryl Davis/GBTDP/478-222-2152  
e-mail: Sheryl.Davis2@robins.af.mil



# ATS Requirements



- **PROGRAM:** Program Loader Verifier - New Technology (PLV-NT)
- **SCOPE:** The Program Loader Verifier New Technology (PLV-NT) is a portable re-programmer for aircraft avionics computers. The PLV-NT is used in flight line and back shop environments for the programming and downloading of Operation Flight Programs (OFP) and Mission Data Files (MDF) and provides OFP updates for system capability improvements and corrections to weapon systems for F-15 Line Replaceable Units
- **Schedule:**

	<u>FY 06</u>	<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>
	10	10		
- **Budget:**

	64K	64K		
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- **POC:** Gregory Schoo/GBTDP/478-222-2153  
e-mail: gregory.schoo@robins.af.mil



# ATS Requirements



- **Program:** F-15 FLIGHT LINE TEST SET (FLTS)
- **Scope:** The FLTS is used at the organizational level to perform maintenance and testing of the F-15 automatic flight control system. Current contract in place with Boeing for the development of prototype replacement FLTS. Engineering data will be procured for the competitive acquisition of FLTS replacement
- **Schedule:**

	<u>FY 08</u>	<u>FY 09</u>	<u>FY10</u>
	14	24	24
- **Budget:**

	5M	7M	7M
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- **POC:** Thomas Rodriguez/GBTCT/478-222-2122  
e-mail: thomas.rodriquez@robins.af.mil



# Engineering Unfunded Requirements



- **Program:** Cruise Missile ATS Supportability Analysis
- **Scope:** Perform a Supportability Analysis to determine best course of action for obsolete equipment that must be replaced to sustain these test systems
- **Schedule:** TBD
- **Budget:**

<u>FY 06</u>	<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>	<u>FY 10</u>
500K	500K	500K	500K	500K
- **POC:** Virginia Slay/GBTRNC/478-222-2128  
e-mail: Virginia.Slay@robins.af.mil



# Engineering Unfunded Requirements



- **Program:** F-15 ESTS Accommodating Architectural Upgrade
- **Scope:** Perform a system architectural analysis to change the VXI instrumentation from MXI-1 to the latest configuration. A change to the instruments is required. This can include synthetic instruments for each subsystem. An overall change in system architecture may be required.
- **Schedule:** TBD
- **Budget:**  $\frac{\text{FY08}}{3\text{M}}$
- **POC:** Virginia Slay/LEEB/478-222-2128  
e-mail: virginia.slay@robins.af.mil



# Engineering Unfunded Requirements



- **Program:** A-10 Pave Penny Test Set Replacement
- **Scope:** Perform a Proof of Concept Prototype replacement for the Pave Penny Test Set
- **Schedule:** TBD
- **Budget:**

	<u>FY06</u>	<u>FY07</u>
	3.4M	500K
- **POC:** John Williams/ GBTRNC/478-222-2138  
e-mail: john.williams4@robins.af.mil



# Engineering Unfunded Requirements



- **Program:** LANTIRN Mobility Shelter Set (LMSS) Deficiencies
- **Scope:** This task is to conduct engineering analyses on reliability and supportability problems of the LMSS system
- **Schedule:** TBD
- **Budget:**

<u>FY 06</u>	<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>
287K	587K	766K	766K
- **POC:** John Williams/GBTRNC/478-222-2138  
e-mail: john.williams4@robins.af.mil



# Engineering Unfunded Requirements



- **Program:** ADINTS Power Supply
- **Scope:** Perform an Engineering analysis to identify a form, fit and functional replacement for the California Instruments 3531A PS that is supportable for the life of the ADINTS testers. Integrate the prototype into an ADINTS and verify the operation of the ADINTS has not been compromised. Any changes to form and fit will require updates to the data package and TOs. Any changes to TPSs are beyond the scope of this project
- **Schedule:** TBD
- **Budget:** FY06  
125K
- **POC:** JamesJorgenson/GBTRNC/478-222-2131  
e-mail: james.jorgenson@robins.af.mil



# Engineering Unfunded Requirements



- **Program:** B-1B EASTE Spectrum Analyzer Replacement
- **Scope:** Perform an Engineering analysis to identify a form, fit and functional replacement for the HP 8566B that is supportable for the life of the EASTE carts. Integrate the prototype into an EASTE and verify the operation of the EASTE has not been compromised. Any changes to form and fit will require updates to the data package and TOs. Any changes to TPSs are beyond the scope of this project
- **Schedule:** TBD
- **Budget:** FY06  
983K
- **POC:** James Jorgenson/GBTRNC/ 478-222-2131  
e-mail: james.jorgenson@robins.af.mil



# Acquisition/Sustainment Strategies



- Increasing Long-term Contracts 50% over the next three years
- Long-term, Flexible, Indefinite Delivery/Indefinite Quantity (IDIQ) Contracts
- Partnering with Industry



# Acquisition/Sustainment Strategies (cont)



- Improve our support to the warfighter!
  - Leaner more agile support equipment
  - Reduce Mission Capability (MICAP), reduce lead time for surge items
- Leverage our resources
  - Reduce Obsolescence
  - Increase use of COTS items
- Ensure we are optimizing government and industry resources and expertise



# Advice & Recommendations For Industry



- DOD directed that future ATS / ATE procurements will be based on a Joint Technical Architecture and be interoperable across the services
- Companies interested in supporting the USAF in our ATS / ATE requirements should work with each other to develop common, open architecture, COTS type equipment and software
- Industry involvement is needed to ensure we can continue to sustain and acquire test capabilities to meet warfighter requirements
- Non proprietary, open architecture interface standards for all ATS hardware and software are required for all future ATS procurements



# Back-Up Slides

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# Equipment Buy Requirements



## ANNUAL BUY REQUIREMENTS FY06 – FY08

Item Name	QT Y	FY06	QT Y	FY07	QT Y	FY08
Accessory Kit, Elec.	2	\$ 14,400	0	\$ -	0	\$ -
Adapter Assy.	0	\$ -	1	\$ 18,999	0	\$ -
Adapter, Test	0	\$ -	4	\$ 72,040	4	\$ 296,532
Analyzer, Digital Da.	3	\$ 16,479	0	\$ -	3	\$ 51,528
Analyzer, Spectrum	11	\$ 228,674	0	\$ -	4	\$ 73,413
Bolometer, Radio Freq.	0	\$ -	0	\$ -	4	\$ 8,724
Cable Assy., Spec	1	\$ 8,081	0	\$ -	0	\$ -
Calibrator, Directional	1	\$ 27,873	0	\$ -	2	\$ 58,102
Calibrator, O-Scope	12	\$ 521,475	0	\$ -	0	\$ -
Counter, Electric	5	\$ 76,170	1	\$ 15,562	1	\$ 15,891
Counter, Electron	0	\$ -	0	\$ -	1	\$ 15,891



# Equipment Buy Requirements



## ANNUAL BUY REQUIREMENTS FY06 – FY08

Dir. Coupler	10	\$ 4,620	0	\$ -	1	\$ 482
Fixture Acft. Maint.	4	\$ 15,392	1	\$ 3,928	4	\$ 16,036
Fixture Acrft Acc.	1	\$ 345	0	\$ -	0	\$ -
Generator, Function	1	\$ 5,346	0	\$ -	0	\$ -
Generator, Pulse	1	\$ 3,950	0	\$ -	0	\$ -
Generator, Sweep	0	\$ -	0	\$ -	3	\$ 17,241
Indicator Distortion	2	\$ 19,362	2	\$ 19,780	2	\$ 20,196
Meter, Null	3	\$ 14,112	0	\$ -	1	\$ 4,905
Multimeter	10	\$ 8,194	15	\$ 13,782	1	\$ 782
Ohmmeter	64	\$ 41,259	15	\$ 35,646	13	\$ 18,082



# Equipment Buy Requirements



## ANNUAL BUY REQUIREMENTS FY06 – FY08

Oscillograph	2	\$ 2,658	0	\$ -	0	\$ -
Reflectometer, Metal	44	\$ 272,764	9	\$ 57,690	11	\$ 71,079
Reflectometer, Optic	6	\$ 105,144	1	\$ 17,886	4	\$ 73,060
Resistance, Standard	2	\$ 93,648	0	\$ -	0	\$ -
Resistor, Decade	4	\$ 31,956	1	\$ 25,944	3	\$ 28,758
Resistor, Standard	2	\$ 10,084	0	\$ -	0	\$ -
Signal Generator	83	\$ 984,981	8	\$ 148,156	15	\$ 278,531
T/S Navigation	7	\$ 77,623	0	\$ -	1	\$ 11,562
Test Set , Semiconductor	1	\$ 1,222	0	\$ -	0	\$ -
Test Set Control	1	\$ 11,295	0	\$ -	0	\$ -
Test Set, Electrical	14	\$ 99,439	2	\$ 6,706	11	\$ 245,143



# Equipment Buy Requirements



## ANNUAL BUY REQUIREMENTS FY06 – FY08

Test Set, Indicator	2	\$ 10,508	0	\$ -	1	\$ 5,476
Test Set, Oscillator	0	\$ -	0	\$ -	2	\$ 2,052
Test Set, Radio	30	\$ 635,716	23	\$ 460,659	21	\$ 461,145
Test Set, Synchro	0	\$ -	0	\$ -	1	\$ 20,081
Test Set, Telephone	8	\$ 23,912	1	\$ 3,052	5	\$ 15,575
Test Set, Transponder	41	\$ 595,730	5	\$ 74,215	3	\$ 45,471
Voltmeter	0	\$ -	0	\$ -	3	\$ 7,956
Wattmeter	35	\$ 498,750	10	\$ 256,660	1	\$ 14,250