

Air Force Materiel Command

Birthplace, Home and Future of Aerospace



Training Systems Product Group (TSPG)

Ms Carol Zelczak
677th AESG/DD
19 June 2008

U.S. AIR FORCE

Integrity ★ Service ★ Excellence

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 19 JUN 2008		2. REPORT TYPE		3. DATES COVERED 00-00-2008 to 00-00-2008	
4. TITLE AND SUBTITLE Training Systems Product Group (TSPG)				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Air Force Materiel Command,677thAESG/DD,Wright Patterson AFB,OH,45433				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES 2008 Training & Simulation Industry Symposium (TSIS), 18-19 Jun 2008, Orlando, FL					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 42	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



U.S. AIR FORCE

Overview



Birthplace, Home and Future of Aerospace

- Training Systems Product Group
 - Current AF Challenges
 - 3 Things We Need from Industry
- Business Forecast
 - Acquisition Programs
 - Sustainment Programs
 - Laboratory Programs





U.S. AIR FORCE



Training Systems Product Group

Birthplace, Home and Future of Aerospace

Mission: Lead the development, acquisition and sustainment effort necessary to meet every MAJCOM's simulation and training requirement

TSPG ORGANIZATION

	FY 08 BUDGET
LAB (AFRL/RHA)	\$51M
ACQUISITION (677 AESG)	\$435M
SUSTAINMENT (507 ACSS)	\$528M
Total	\$1.014B

EXAMPLE CUSTOMERS

Air Force: ACC, AMC, AETC, AFSOC, Guard, Reserve

Other DoD: Navy, Marines, Army, JFCOM, SOCOM, DARPA

Other US Govt: FAA

Other Nations: UK, Canada, RSAF, Egypt, Australia, Greece, Poland, Belgium, Norway

EXAMPLE PROGRAMS

Simulation & Trng Systems for: CAF DMO, B-1, B-2, Predator, JSF, F-15, F-16, F-22, C-17, C-130J, KC-10, E-3, KC-135, KC-X, JCA, MH-53, TH-1H, T-1, JTCTRS (JTAC)

Science and Technology for: learning, decisionmaking, human performance, C2, AOC, LVC, JTAC, immersive environments, distributed mission planning/ execution/debrief





U.S. AIR FORCE

Training Systems Product Group

Birthplace, Home and Future of Aerospace



What is the TSPG?

An umbrella term to describe the Air Force organizations that support warfighter training through the use of modeling and simulation techniques. Collectively, we provide the warfighter with a full range of training system lifecycle support.



U.S. AIR FORCE

Training Systems Product Group



Birthplace, Home and Future of Aerospace

Air Force Research Laboratory
Warfighter Research Readiness Div
Mesa, AZ



Aeronautical Systems Center
677 Aeronautical Systems Group
WPAFB, OH



Ogden Air Logistics Center
507 Aircraft Sustainment Squadron
Hill AFB, UT



MOA relationship with **Air Force Agency for Modeling & Simulation**
provides TSPG connection to Air Force M&S policy implementation and integration
Orlando, FL



U.S. AIR FORCE



Current AF Challenges

Birthplace, Home and Future of Aerospace

Rising Costs

- Operating costs ↑179% over 10 yrs
- Personnel costs ↑57% over 10 yrs while end-strength ↓8%
- Health care costs tripled per active-duty member since 1988
- Defense spending at 3.3% of GDP, lowest ever in time of war

Operations Tempo

- **16 years of sustained combat ops**
- 35,000 Airmen deployed
- 1 mobility a/c take-off every 90 sec
- Same flying hrs in '06 as '93 but with 1,280 fewer aircraft
- Readiness down 17% since 2001

Fuel Price Instability

- AF's overall fuel cost fluctuates ~\$600M each \$10 change per barrel
- **AF fuel costs more than doubled since 2004 (from \$2.8B to \$6.2B)** with little change in consumption
- DoD standard price for a gallon of JP-8 from \$1.10 to \$2.87 over 3 yrs

Equipment

- **Avg aircraft age 24 yrs (9 yrs in '71)**
- 14% of fleet grounded or restricted
- **Investment funds ↓19% over 22 yrs**
- F-16 depot requests ↑77% from '01 ... AC-130 depot requests ↑37% from '05 to '06 ... A-10 structures-related requests ↑49% since '03



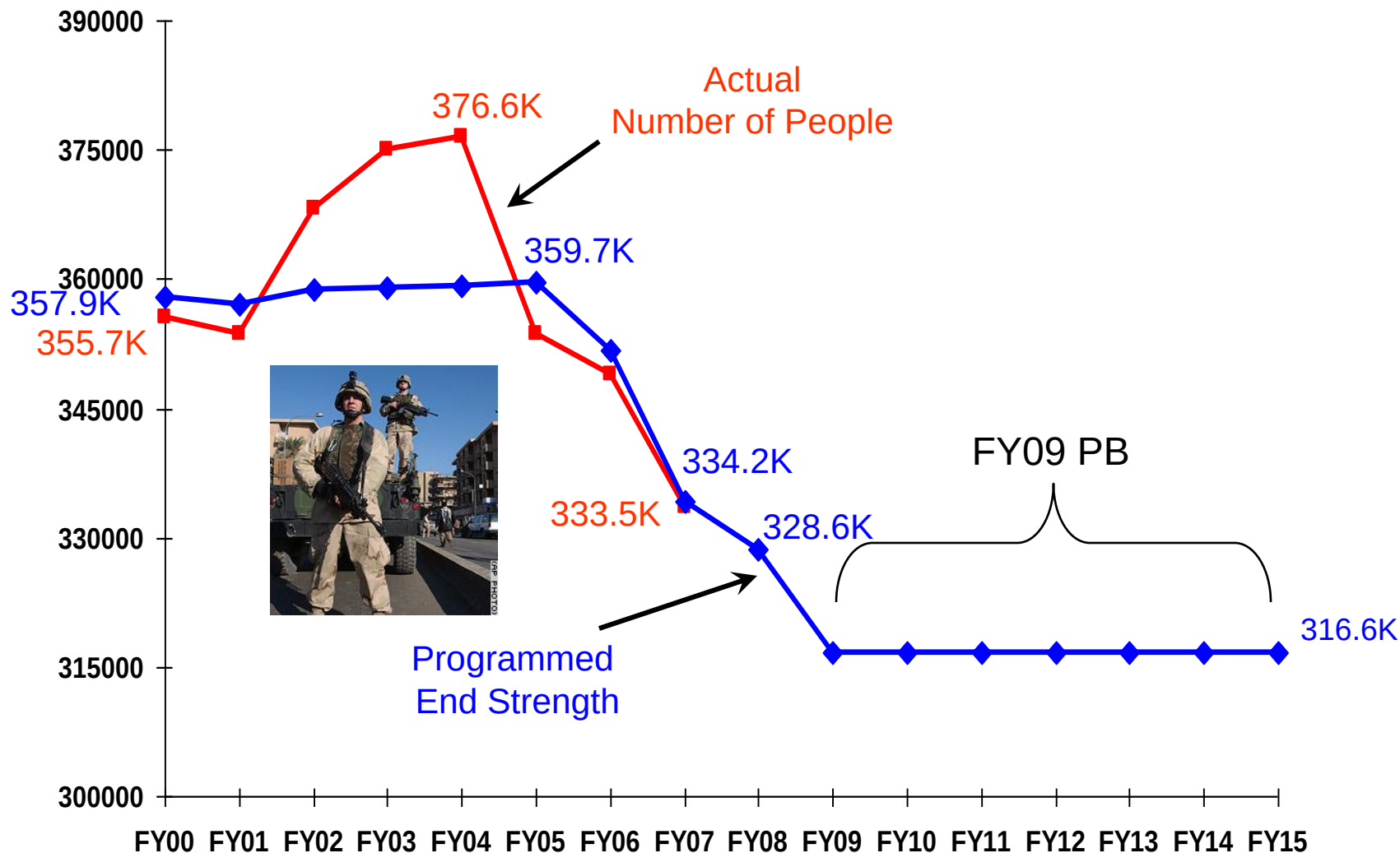
U.S. AIR FORCE

End Strength and People

As of Current FY09 President's Budget



Birthplace, Home and Future of Aerospace





U.S. AIR FORCE

What We Need from Industry



Birthplace, Home and Future of Aerospace

- Achievable Solutions
 - We are all too focused on technology; need to provide capability, on cost & on time
- Improved Proposal Quality
 - Disjointed; changes not clearly marked; waste time requesting additional explanation
- Government/Industry Partnership
 - Limited people; increasing workload—demand a new paradigm



U.S. AIR FORCE



Birthplace, Home and Future of Aerospace



Near-Term Business Forecast

677 AESG (Simulator Systems Group)
Wright-Patterson AFB

U.S. AIR FORCE



U.S. AIR FORCE

Planned Acquisitions



Birthplace, Home and Future of Aerospace

- ACC & DMO Programs Division
 - Joint Theater Air Ground Simulation System (JTAGSS)
 - F-15C

- Mobility & FMS Programs Division
 - C-17
 - C-130J
 - KC-45
 - FMS

Government disclaimer: all information is provided for information purposes only, represents a best understanding of the procurement as of the presentation date, and is subject to change.



U.S. AIR FORCE

Joint Theater Air Ground Simulation System (JTAGSS)



Birthplace, Home and Future of Aerospace

Description USAF JCAS virtual & constructive sim system; link to USA C2 systems for recurring Joint Fires training Stimulate actual C2 systems using simulation w/common terrain databases Network ASOC & TACP trainers with Fire Support Cell and Airspace C2 for combined battle staff training Network JTAC trainer for coordinated virtual Joint Fires training Train joint team on JCAS process; use intelligent agents to fill C2 functional gaps where appropriate Review and performance measurement AAR capability	
Acquisition Strategy Contract type: TBD based on market research Competitive Environment: TBD based on market research Number of Awards: TBD based on strategy	Funding Currently unfunded. To be addressed in FY10 POM
Program Office Point of Contact Name: } Major Michael Conway Organization: } 677 AESG/TO Phone: } 937-255-8799 Email: } Michael.Conway@wpafb.af.mil	Procurement Authority Point of Contact Name: } Ms. Charlene Jeong Organization: } 677 AESG/TO Phone: } 937-255-4955 Email: } Charlene.Jeong@wpafb.f.mil
Period of Performance TBD. Will probably not start any earlier than FY10.	Data Status TBD
Milestones FY10 - Connect JTAC and CAS aircraft trainers with ASOC training system (JTAGSS) and USA FSC & AC2 FY11 - Add AOC to training network FY12 - Full Live-Virtual-Constructive Joint Fires training capability in a Joint National Training Capability environment	



F-15C Mission Training Center (MTC)

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Description

The F-15C MTC program consists of simulation system capability provided through the use of an MTC that contains high fidelity cockpits, instructor/operator stations, brief/debrief capabilities, threat stations, command and control stations, a realistic combat environment and DMO Network capability. The ACC aircrews may perform any or all functions identified in the Master Training Task List associated with flying solo or multi-ship missions from mission planning through mission debrief. The capability to simulate all functions associated with all aspects of full spectrum F-15C training and wartime missions are present.

Acquisition Strategy

Competition

Source Selection for Services Contract

Funding

Estimate \$190M over life of contract

Program Office Point of Contact

Name: } Capt Aaron Buck
Organization: } 677 AESG/TO
Phone: } 927-255-2861
Email: } aaron.buck@wpafb.af.mil

Procurement Authority Point of Contact

Name: } Kimberly Henderson
Organization: } 677 AESG/TO
Phone: } 937-255-3954
Email: } kimberly.henderson@wpafb.af.mil

Period of Performance

11/12 Start of Service
Minimum of 3 years with additional follow on years

Data Status

N/A for services contract

Milestones

Released RFI 4/08
Industry Day 8/08



U.S. AIR FORCE

F-15C Mission Training Center (MTC)



Birthplace, Home and Future of Aerospace

Summary of Program Requirements A high fidelity, simulated combat environment integrated with simulations of all avionics and weapons systems, programmed or interactive threat aircraft, gunnery, air-to-air and surface-to-air missiles, electronic countermeasures, communications networks, command and control structures, atmospheric, and DMO Network capability. Types of devices – cockpits, instructor/operator station, brief/debrief. Anticipated Installations - Langley AFB (4 ship), Elmendorf AFB (4 ship), RAF Lakenheath (2 ship + 2 ship opt), Kadena AB (4 ship), Nellis AFB (2 ship)	Training Analysis/Requirements Results Meet ACC Master Training Task List and Roadmap Immersive Training Environment Full Spectrum Training Capability
New Technologies/Capabilities Anticipated State-of-the-Art high-fidelity visual system Intelligent Virtual/Constructive Entities (IVICE) F-15C Roadmap requirements	Critical Performance Issues/Risks Immersive Training Environment Visual & NVIS Cues Physical Cues (AOA buffet, Cockpit, HOTAS etc.) Aural Cues DMO Interoperability and Standard Compliance Aircraft and DMO Standards Concurrency Participation in DMO Standards Development Thorough Brief/Debrief Capability Risks: IVICE, Visuals
Additional Information Developing F-15C MTC documentation Emphasize Hardware-Software Integration, Engineering Verification Testing, On-site Validation Testing	



U.S. AIR FORCE



Planned Acquisitions

Birthplace, Home and Future of Aerospace

- ACC & DMO Programs Division
 - Joint Theater Air Ground Simulation System (JTAGSS)
 - F-15C

- Mobility & FMS Programs Division
 - C-17
 - C-130J
 - KC-45
 - FMS

Government disclaimer: all information is provided for information purposes only, represents a best understanding of the procurement as of the presentation date, and is subject to change.



U.S. AIR FORCE

C-17 Training System Sustainment Re-Compete



Birthplace, Home and Future of Aerospace

Description Customer: AMC, AETC, AFRES, ANG Description: This program is comprised of three components; 1) ATS and MTS Contractor Logistics Support (CLS), 2) ATS Instruction, and 3) ATS and MTS Concurrency Management. -- This will be a combination of the existing ATS and MTS programs; see following charts Production of the devices will continue to reside with the incumbent contractors. This is the only factor that differs from the existing contracts covered on the following two charts.	
Acquisition Strategy Full and Open Competition Single Award Conducted outside of TSA	Funding Program Office Estimate in work
Program Office Point of Contact Name: Mr Ricky Fennell Organization: 677 AESG/ Phone: 937-255-2884 Email: Ricky.fennell@wpafb.af.mil	Procurement Authority Point of Contact Name: Ms Molly Verbillion Organization: 677 AESG/PK Phone: 937-255-2942 Email: molly.verbillion@wpafb.af.mil
Period of Performance FY10 Contract Award Base Year plus Nine One-Year Options	Data Status Bidder's Library being assembled Proprietary Data -- TBD
Milestones Industry Day @ Altus – 19 Jun 08, Industry Day @ Charleston – 23-24 Jun 08 Draft RFP – Oct 08, RFP – Jan 09 Contract Award - Jan 10	



U.S. AIR FORCE

C-17 Training System Sustainment Re-Compete



Birthplace, Home and Future of Aerospace

Summary of Program Requirements

Aircrew Training System

Four aspects to the program

- Production of aircrew training devices/aids
- Courseware development and instruction
- Contractor Logistics Support
- Concurrency Management

Current Contract

Company: Boeing-St Louis
Contract Number: F33657-01-D-2074 (3rd contract)
Period of Performance: Jul 01 – Sep 08 (being extended to Mar 10)

Original Developer/OEM

Company: Boeing-St Louis
Date Delivered: early '90s

Current Installations

Locations: 10 USAF bases plus RAAF Amberley
Number of Devices: 170 (includes computer-based products up to and including full motion-based trainers)

End User Point of Contact

Name: Denney Hughes
Phone: 618-229-3583
Email: denney.hughes@scott.af.mil

Additional Information

All appropriate program documentation will be provided in the bidder's library (SOW, Specs, etc.) and well as a site visit to Altus will be arranged as a part of the Sustainment Re-Compete program



U.S. AIR FORCE

C-17 Training System Sustainment Re-Compete



Birthplace, Home and Future of Aerospace

Summary of Program Requirements

Maintenance Training System

Three aspects to the program

- Production of the maintenance training devices
- Contractor Logistics Support
- Concurrency Management

Instruction is provided by AETC

Current Contract

Company: AAI Services Corp
Contract Number: F33657-D-03-2030 (2nd contract)
Period of Performance: Jun 03 – Mar 10

Original Developer/OEM

Company: ECC Services Corp
Date Delivered: 1997

Current Installations

Locations: 7 USAF bases
Number of Devices: 37

End User Point of Contact

Name: TSgt Kurt Melloch
Phone: 618-229-2713
Email: kurt.melloch@scott.af.mil

Additional Information

All appropriate program documentation will be provided in the bidder's library (SOW, Specs, etc.) and well as a site visit to Charleston will be arranged as a part of the Sustainment Re-Compete program



U.S. AIR FORCE

C-130J MATS Program Status



Birthplace, Home and Future of Aerospace

Summary of Program Requirements

Main program requirements

- Production of the aircrew and maintenance training devices/aids for USAF and USMC
- Training System Support Center to maintain courseware and incorporate minor modifications into training devices
- Provide aircrew instruction for initial, continuous and transition training of C-130J Aircrews
- Contractor Logistics Support
- Concurrency Management for block and out of block modifications

Current Contract

Company: LM STS
Contract Number: C-130 J FA8621-06-C-6300
Period of Performance: Jul 06 – Sep 10

Original Developer/OEM

Company: LMA
Date Delivered: 2003 (First WST to Keesler AFB)

Current Installations

Locations: Little Rock AFB (FTU), Keesler AFB, MCAS Cherry Point, MCAS Miramar, and MCAS Futenma, Okinawa
Number of Devices: 18 (WSTs - 8, CPT, FuTs - 2, ASMT, LMPTTs - 2, ICSTs - 2, EPT, FCT)

AMC End User Point of Contact

Name: Jan Schaeuble
Phone: 618-229-3581
Email: jan.schaeuble-02@scott.af.mil

Additional Information

Negotiating with LM STS to procure a System Integration Laboratory to be used for block upgrades to C-130J MATS devices
Examine potential for re-competition of O&M contract by completing market research in FY09
Potential New work
Upon ADM decision, AFSOC interested in obtaining devices for their training requirements
USAF wants to procure another WST for GWOT requirement



U.S. AIR FORCE

KC-45A Tanker Training Systems



Birthplace, Home and Future of Aerospace

Description

Provide both an Aircrew Training System (ATS) and Maintenance Training System (MTS) that include training devices, concurrency modifications, courseware with instruction and contractor logistics support (CLS). 677 AESG/TS to contract for a “guaranteed student” for KC-45A aircrew personnel. Will require ACA with KC-45A aircraft prime.

Acquisition Strategy

ATS and MTS to be full and open competitions resulting in separate awards.

ATS award 2 yrs after KC-45A aircraft award.

MTS award 2 yrs after ATS award.

Anticipate periods of performance of 10+ yrs.

Funding

3600, 3010, and 3400 funding available for both ATS and MTS.

Funding estimates not releasable at this time.

Program Office POC

Name: MSgt Joseph Diurno

Org: 677 AESG/TS, WPAFB OH

Phone: 937-255-2603

E-mail: Joseph.Diurno@wpafb.af.mil

Procurement Authority POC

Name: } PCO not yet designated.
Org: } 677 AESG will conduct both
Phone: } procurements.
E-mail: }



U.S. AIR FORCE

KC-45A Tanker Training Systems



Birthplace, Home and Future of Aerospace

Summary of Program Requirements

ATS will be based on aircraft OEM-produced and AMC-approved TSRA.

ATS will include Level D FFS and Boom Operator Trainer (BOT), both integrated via DMO.

ARASQ standard for Aerial Refueling Simulation.

ISD, aircraft concurrency, guaranteed student, and earliest delivery to replace Type 1 training.

FTU will be Altus AFB OK; with 10-12 bases having simulators for continuation training.

Electronic training materials must be SCORM compliant and will be provided to the MTS.

AETC will conduct and AMC will approve the TSRA for MTS.

Milestones

ATS industry days after KC-45A aircraft PAC, with Industry Day #1 at WPAFB and Industry Day #2 at Altus AFB.

Draft RFP 4-6 months following industry days, RFP when TSRA data available, and ATS contract award up to 2 years after KC-45A aircraft PAC.

MTS TSRA to be completed by AETC after review of preliminary KC-45A technical orders with acquisition of MTS to follow.

End User POC

Name: Col Timothy Smith

Org: HQ AMC/A3T, Scott AFB IL

Phone: 618-229-2007

E-mail: tim.smith-02@scott.af.mil



U.S. AIR FORCE

Foreign Military Sales New Business



Birthplace, Home and Future of Aerospace

Country	Description	Status	Est. Value	Request Date
Qatar	Boeing TSS C-17 Training System	Pricing & Availability (P&A) out 30 AUG 07	\$51M	LOA TBD
NATO/SAC	Boeing TSS C-17 Training System	P&A out 24 OCT 07	\$29.4M	LOA TBD
Egypt	CAE C-130H Aircrew Simulator	Letter of Offer & Acceptance (LOA) Data out 25 APR 08	\$43M	LOA – 26 AUG 07
Iraq	Lockheed C-130J Aircrew Simulator	P&A out 10 MAR 08	\$49.5M	LOA TBD
Romania	2 F-16 Aircrew & 2 Maintenance Simulators	LOA Data out 7 APR 08	\$62.3M	LOA – 28 NOV 07
Croatia	F-16 Aircrew Simulator	P&A out 27 MAR 08	\$35M	LOA TBD



U.S. AIR FORCE



Birthplace, Home and Future of Aerospace



Near-Term Business Forecast

507 Aircraft Sustainment
Ogden Air Logistics Center

U.S. AIR FORCE

Government disclaimer: all information is provided for information purposes only, represents a best understanding of the procurement as of the presentation date, and is subject to change.



Training Systems Business Opportunities



Birthplace, Home and Future of Aerospace

FY 09-10

A-10 Training Systems CLS

B-52 Aircrew Training Devices CLS

T25 Simulator for Electronic Combat Training CLS

KC-135 Aircrew Training System CLS

C-5 Aircrew Training Systems CLS

C-130 Aircrew Training System CLS





U.S. AIR FORCE

A-10 Training Systems



Birthplace, Home and Future of Aerospace

Description • Operation, maintenance, and logistics support of all trainers • Modification of the trainers as required for maintaining concurrency with the aircraft • Upgrades, enhancements, or the insertion of advanced technology into the trainers for the purpose of maintaining or improving operational safety, suitability (i.e., supportability, availability), and effectivity (i.e., increased training capabilities). • End user is ACC, ANG, AFRC	
Acquisition Strategy • Full and open competition • One year basic with nine option years	Funding • Estimate total contract value \$150M
Program Office Point of Contact Name: Lt Allyson Yuss Organization: 507 ACSS/GFLA Phone: 801-586-3886 Email: allyson.yuss@hill.af.mil	Procurement Authority Point of Contact Name: Susan Simpkins Organization: 558 ACSG/PK Phone: 801-775-3801 Email: susan.simpkins@hill.af.mil
Period of Performance • 2010 - 2020	Data Status • Data package complete, no known issues
Milestones • Industry day, draft RFP, RFP, contract award, etc. are TBD	



U.S. AIR FORCE

A-10 Training Systems



Birthplace, Home and Future of Aerospace

Summary of Program Requirements

- Operation, maintenance, and logistics support of all A-10 trainers
- Modification of the trainers as required in order to maintain concurrency with the aircraft
- Procurement of A-10 Training Systems as needed

Current Contract

Company: Lockheed Martin Global Systems
Contract Number: F33657-01-D-2072 QP01
Period of Performance: 2004 - 2010

Original Developer/OEM

Company: Air Force Research Laboratories

Current Installations

Locations: Hands on Throttle and Stick (HOTAS) trainers at DM,
Full Mission Trainers (FMT) at 11 locations worldwide
Number of Devices: 8 HOTAS, 22 FMTs

End User Point of Contact

Name: Neal Braidwood
Phone: 757-764-8760
Email: neal.braidwood@langley.af.mil

Additional Information

- CLS, modifications, and new development for the A-10 training systems currently on single contract



B-52 Aircrew Training Devices

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Description • Contract Logistic Support (CLS) for the B-52 Weapon System Trainer (WST), T4 Electronic Warfare Simulator (EWS), Cockpit Procedure Trainer (CPT) and Offensive Station Mission Trainer (OSMT) • Support operational requirements of the Training Systems Support Center (TSSC) and develop, procure, manufacture, assemble, package, ship and install all modifications to the Air Crew Training Devices (ATDs) • A computer rehost for the B-52 WST is anticipated • The B-52 is undergoing a major communication modification, Combat Network Communications Technology (CONNECT). Phase I is expected to be completed by the end of the existing contract. Phase II will be required to be part of the overall competition of this program	
Acquisition Strategy • Use of existing/planned ID/IQ contract vehicle - Full and Open	Funding • Estimated total contract value \$250M
Program Office Point of Contact Name: Ted Roos Organization: 507 ACSS/GFLB Phone: 801-777-4711 Email: John.Roos@HILL.af.mil	Procurement Authority Point of Contact Name: Lois Moeglein Organization: 558 ACSS/PK Phone: 801-775-2569 Email: Lois.Moeglein@HILL.af.mil
Period of Performance • Apr 2010 – Sep 2019	Data Status • Data package complete, no known issues
Milestones • See next page	



B-52 Aircrew Training Devices

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Milestones

MILESTONE SCHEDULE

- Sources Sought Synopsis/Market Research
- Draft RFP
- Industry Day
- Final RFP
- Contract Award

DATES

3/2008 COMPLETED
3/2009
5/2009
9/2009
12/2009



B-52 Aircrew Training Devices

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Summary of Program Requirements

- Contract includes modifications, upgrades, sustainment, and disposition of B-52 Training System, Offensive System Substation (OSS), Defensive System Substation (DSS), Flight System Substation (FSS), Offensive Station Mission Trainer (OSMT), Cockpit Procedures Trainer (CPT), AN/ALQ T4 Electronic Warfare Simulator (EWS), and operations of the Training System Support Center (TSSC)
- Efforts include but are not limited to: information technology services, design concepts, and management of the TSSC, CLS, engineering analysis, training for database conversion and operation, necessary for training system support as needed
- The modification portion of this contract is for modifications outside the contractual scope of the TSSC

Current Contract

Company: Rockwell Collins Simulator and Trainer Systems
Contract Number: F42630-99-D-0244
Period of Performance: Aug 99 – Mar 2010

Original Developer/OEM

Company: Singer LINK
Date Delivered: Unknown

Current Installations

Locations: Barksdale AFB, LA., Minot AFT, ND
Number of Devices: 10

End User Point of Contact

Name: Jeff Burgdorf
Phone: 318-456-3662
Email: Jeffrey.Burgdorf@BARKSDALE.AF.MIL

Additional Information



U.S. AIR FORCE

T25 Simulator for Electronic Combat Training

Birthplace, Home and Future of Aerospace



Description • Consists of six student stations, a two position instructor console to monitor the student training exercise, and a Training System Support Center (TSSC) for software and training exercise development at Randolph AFB, TX and Pensacola NAS • Provide Contractor Logistics Support for the T25 SECT to include on site support, TSSC operation and providing capability to perform Engineering Change Proposals	
Acquisition Strategy • TSA II or full and open	Funding • Estimated total contract value \$10M
Program Office Point of Contact Name: Craig Snow Organization: 507 ACSS/GFLB Phone: 801-775-5116 Email: Craig.Snow@HILL.af.mil	Procurement Authority Point of Contact Name: Lori Lloyd Organization: 558 ACSG/PK Phone: 801-777-5813 Email: Lori.Lloyd@HILL.af.mil
Period of Performance • Oct 2010 – Sep 2016	Data Status • Currently government owns a majority of data, exception is BREWT data
Milestones • Contract award need date: no later than 30 June 2010	



U.S. AIR FORCE

T25 Simulator for Electronic Combat Training

Birthplace, Home and Future of Aerospace



Summary of Program Requirements

- Provide Contractor Logistics Support for the T25 SECT to include on site support, TSSC operation and providing capability to perform Engineering Change Proposals

Current Contract

Company: AAI Services Corp.
Contract Number: F42630-00-C-0223
Period of Performance: Jun 2000 – Sep 2010

Original Developer/OEM

Company: AAI Services Corp.
Date Delivered: 1989

Current Installations

Locations: 563 Flying Training Squadron, Randolph AFB TX
Number of Devices: 1 system at 1 site

End User Point of Contact

Name: Bill Reynolds AETC/A3FC
Phone: 210-652-9640 DSN 487-9640
Email: John.Reynolds@RANDOLPH.AF.MIL

Additional Information

- BRAC decision to move system to Pensacola NAS Initial Operating Capability Spring 2010



KC-135 Aircrew Training System

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Description • A fully integrated simulator system used to provide ground based aircrew training, both academics and simulator training used for initial qualifications, re-qualifications, upgrade training, difference training, conversion training, the central flight instructor course, and selected continuation training • Complete Contract Logistics Support (CLS) Support for aircrew training requirements, Operational Flight Trainer (OFT) moves required by BRAC, other requirements per Performance Work Specification (PWS), OM&S requirements for support of BOWST 1 & 2, and acquisition of BOWST 3 for refueling training	
Acquisition Strategy • Full and Open • 1 year with 8 one year options	Funding • Estimated total contract value \$450M
Program Office Point of Contact Name: Rick Garbett Organization: 507 ACSS/GFLC Phone: 801-777-7907 Email: rick.garbett@hill.af.mil	Procurement Authority Point of Contact Name: Lance Hardman Organization: 558 ACSG/PK Phone: 801-777-6292 Email: Lance.Hardman@HILL.af.mil
Period of Performance • 1 Oct 2007 – 30 Sept 2010 • Currently serving under 3 year extension	Data Status • Awaiting completed Data Package for BOWST 1 & 2 to replace BOPTTs in Formal Training Unit at Altus.
Milestones • TBD	



KC-135 Aircrew Training System

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Summary of Program Requirements

- Complete Contract Logistics Support (CLS) Support for Aircrew Training Requirements
- Operational Flight Trainer (OFT) Moves required by BRAC
- Other requirements per Performance Work Specification (PWS)
- OM&S requirements for support of BOWST 1 & 2
- Acquisition of BOWST 3 for refueling training

Current Contract

Company: FlightSafety Services Corp
Contract Number: F33657-91-C-0072
Period of Performance: 1 Oct 92 – 30 Sep 10

Original Developer/OEM

Unknown

Current Installations

Locations: Numerous CONUS and Overseas
Number of Devices: Operational Flight Trainers (OFT) 17 CONUS,
2 Overseas; Boom Operator Part Task Trainer (BOPTT) 2 CONUS;
Cargo Load Trainer (CLT) 1 CONUS

End User Point of Contact

Name: Clifford Sanchez, AMC Training PM
Phone: 618-229-3645 DSN 779-3645
Email: Clifford.Sanchez@scott.af.mil

Additional Information



C-5 Aircrew Training System

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Description • Comprised of 9 Weapon System Trainers (WST), 4 Cockpit Procedure Trainers (CPT), 1 Cargo Load Trainer (CLT), 1 Ramp & Door Trainer (RDT), and Computer Based Training Workstations (CBT) • Provide total aircrew training with the exception of on aircraft flight training • Provide for all operations, maintenance and sustainment of training devices and learning systems • Reliability Enhanced Re-engine Program (RERP) production devices will part of the competitive bid during the re-competition process.	
Acquisition Strategy • Full and Open Competition	Funding • Estimated total contract value \$450M
Program Office Point of Contact Name: Dale Schaffer Organization: 507 ACSS/GFLC Phone: 801-775-5123 Email: Dale.Schaffer@HILL.af.mil	Procurement Authority Point of Contact Name: Lori Lloyd Organization: 558 ACSG/PK Phone: 801-777-7370 Email: lori.lloyd@hill.af.mil
Period of Performance • Oct FY10 – Sep FY19	Data Status • Some known proprietary data issues • Data package government owned
Milestones • Acquisition Strategy Plan will be available 3rd QTR FY08, Draft RFP 4th QTR FY08 • Industry days are 2-3 April at Travis AFB and 9 -10 April at Lackland AFB additional visits will be planned • RFI released 7 March 2008	



C-5 Aircrew Training System

Birthplace, Home and Future of Aerospace

Summary of Program Requirements

- The C-5 Simulator System is comprised of 9 Weapon System Trainers (WST), 4 Cockpit Procedure Trainers (CPT), 1 Cargo Load Trainer (CLT), 1 Ramp & Door Trainer (RDT), and Computer Based Training Workstations (CBT)
- Contractor is responsible total aircrew training with the exception of on aircraft flight training
- Contractor is responsible for all operations, maintenance and sustainment of training devices and learning systems

Current Contract

Company: FlightSafety Services Corporation
Contract Number: F42630-99-C-0170
Period of Performance: Oct 1999 – Sept 2009

Original Developer/OEM

Company: United Airlines Training
Date Delivered: ~1985

Current Installations

Locations: Dover AFB, DE; Travis AFB, CA; Lackland AFB, TX;
Westover ARB, MA; Stewart ANGB, NY; Memphis ANGB, TN;
Martinsburg ANGB, WV
Number of Devices: 9 WSTs, 4 CPTs, 1 CLT, 1 RDT

End User Point of Contact

Name: Denney Hughes
Phone: 618-229-3583
Email: Denney.Hughes@scott.af.mil

Additional Information



C-130 Aircrew Training System

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Description • The Aircrew Training System (ATS) uses Aircrew Training Devices (ATDs) which include Weapon System Trainers (WSTs), Cockpit Procedures Trainers (CPTs), Cockpit Familiarization Trainers (CFTs), Fuselage Trainers (FuTs), and classroom curriculum to train C-130 aircrews. The ATS offers initial qualification, mission qualification, upgrade, differences, and continuation training. • The ATS trains students for AMC, ANG and AFRC at Little Rock AFB, Dyess AFB, McChord AFB, Minneapolis ANGB, Dobbins ARB. Classroom training is conducted at three remotes sites; Elmendorf AFB, Alaska; Ramstein AB, Germany; and Yakota AB, Japan.	
Acquisition Strategy • Full and open competition	Funding • Estimated total contract value \$500M
Program Office Point of Contact Name: Lt Brendan Hochstein Organization: 507 ACSS/GFLC Phone: 801-777-5884 Email: brendan.hochstein@hill.af.mil	Procurement Authority Point of Contact Name: Christy Marquardt Organization: 558 ACSG/PK Phone: 801-776-0029 Email: christy.marquardt@hill.af.mil
Period of Performance • FY10 to FY19	Data Status • Proprietary data throughout ATS • Complete Aero Data available
Milestones • Industry Days Jun 08, Draft RFP Oct 08, • Contract Award 4Q FY09	



C-130 Aircrew Training System

U.S. AIR FORCE

Birthplace, Home and Future of Aerospace

Summary of Program Requirements

- Provide a training program which results in highly trained aircrews and maintenance personnel for C-130 weapon system operations.
- Provide Guaranteed Student Throughput with on time graduation and meet projected throughput/availability requirements to meet Air Force standards and pass an Air Force administered test. This includes provisions for variations in quantity of students and content of training.
- Effective management of the overall Aircrew Training System (ATS), including ongoing efforts, problem identification and resolution, special projects, reporting and communication, startup transition, security and safety.
- Maintain ATS concurrency with the weapon system program. This includes the capability to incorporate highly technical modifications into the aircrew training devices and the ability to modify/upgrade training devices/courseware/software prior to the aircraft upgrades.
- Effectively manage and operate the Training System Support Centers (TSSC) at Little Rock AFB and Dobbins ARB, to include the appropriate manning levels to complete Design Requests (DRs) in a timely manner.
- Provide a Quality Assurance (QA) program that is equivalent to ISO 9001, and promotes continuous improvements in the ATS. The QA program should also be independent from the work or production organization, and insure contract compliance.

Current Contract

Company: Lockheed Martin Simulation, Training & Support
Contract Number: F42630-99-C-0195
Period of Performance: FY00 – FY09

Original Developer/OEM

Company: LINK for E models; Hughes for H2, H3
Date Delivered: 1980; 1998

Current Installations

Little Rock AFB, Dyess AFB, McChord AFB, Minneapolis ANGB,
Dobbins ARB; Remotes at Elmendorf AFB, Alaska; Yakota AB,
Japan; Ramstein AB, Germany
20 Major Devices with multiple small training systems

End User Point of Contact

Lt Col Edward Ganis
501-987-6822
edward.ganis@littlerock.af.mil

Additional Information



AFRL

Warfighter Readiness Research

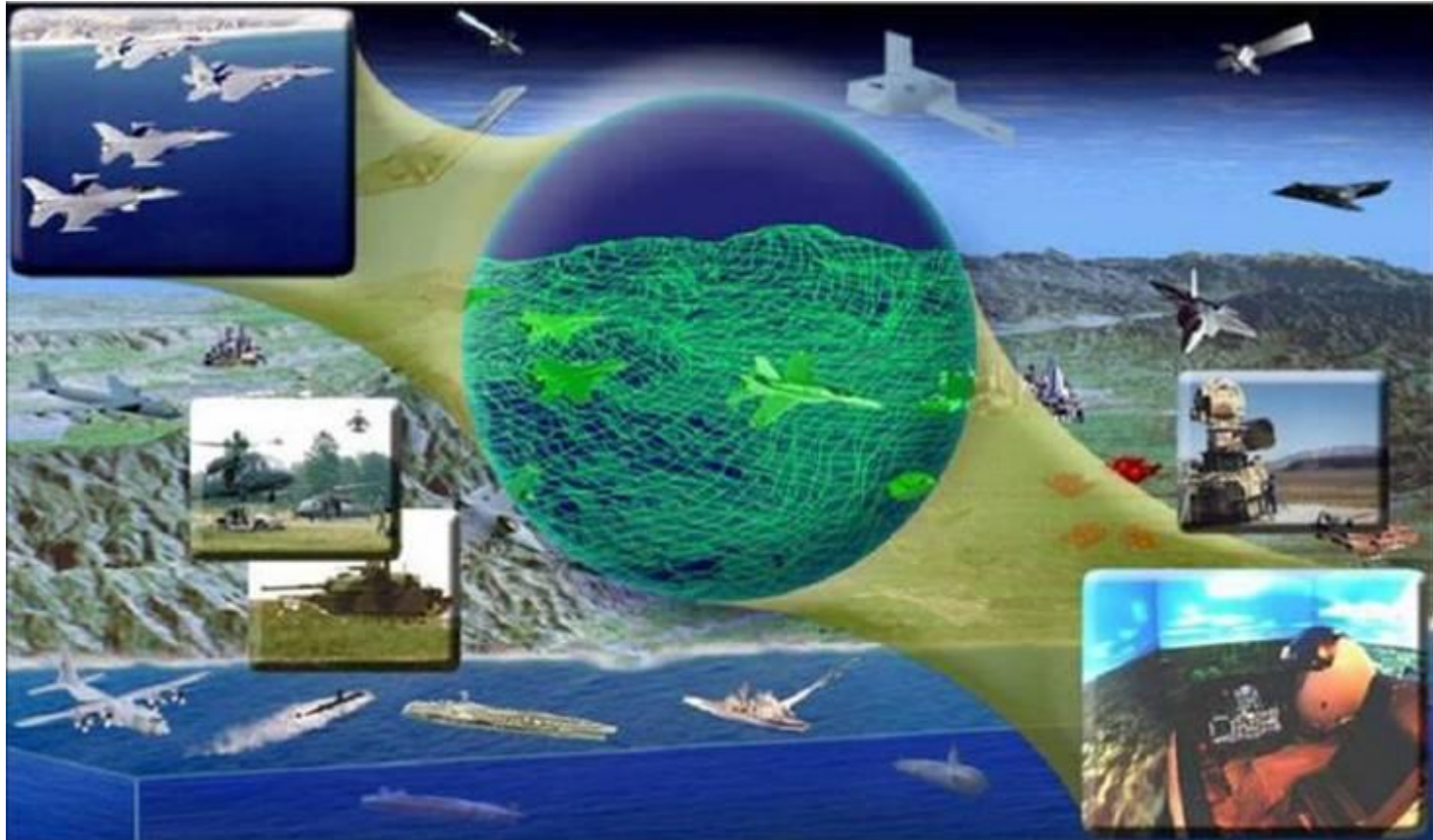


anil.warner@us.af.mil

U.S. AIR FORCE



Research, demonstrate, and transition leading-edge human performance methods and technologies that provide the Warfighter the necessary knowledge and skills to **dominate the decision environment**





U.S. AIR FORCE

Mission Effective Performance

Core Technology Areas



Birthplace, Home and Future of Aerospace

Immersive Environment

Live, Virtual, &
Constructive
Modeling &
Simulation



Immersive
Technologies

Training &
Rehearsal

Cognitive Modeling



Continuous Learning

Performance
Measurement



Computational
Replicates



U.S. AIR FORCE

Mission Effective Performance Relocation in 2011



Birthplace, Home and Future of Aerospace

2007



- Move Mission Effective Performance laboratories
 - 45,000 square feet of lab space
 - Flexible design
- Consolidate division scientists and engineers in single building
- Integrate with other on-base laboratories

2011





Warfighter Readiness Training Research Contract



Birthplace, Home and Future of Aerospace



Contract Type: CPFF, IDIQ, Multiple Delivery Orders

Ordering Period Ends: July 2010

Performance Ends: January 2012

Ceiling: \$300M

Place of Performance: Mesa, Arizona (www.mesa.afmc.af.mil)

Predicted BRAC Move to WPAFB: September 2011

POC: Jay Carroll (711 HPW/RHAO)

480-988-6561 x148

jay.carroll@mesa.afmc.af.mil

L3/Lockheed Martin/Boeing

Description

On-demand integration of live, virtual, and constructive systems to immerse the warfighter in realistic operational environments

Technologies

- Rapid database and scenario development
- Models of human learning and effectiveness
- DMO performance measurement & assessment
- C4ISR live/simulation linkage and recovery
- Distributed event integration & management
- Distributed system reliability & security

Benefits to the Warfighter

- Immersive, theater level, integrated training and rehearsal systems
- Mission rehearsal based on rapid integration of tactical information
- Theater-level performance measurement & assessment
- Enhanced training realism
- Reduced cost and overhead associated with DMO training & rehearsal
- Reduced footprint and more efficient reachback



U.S. AIR FORCE



Birthplace, Home and Future of Aerospace



Questions ?