



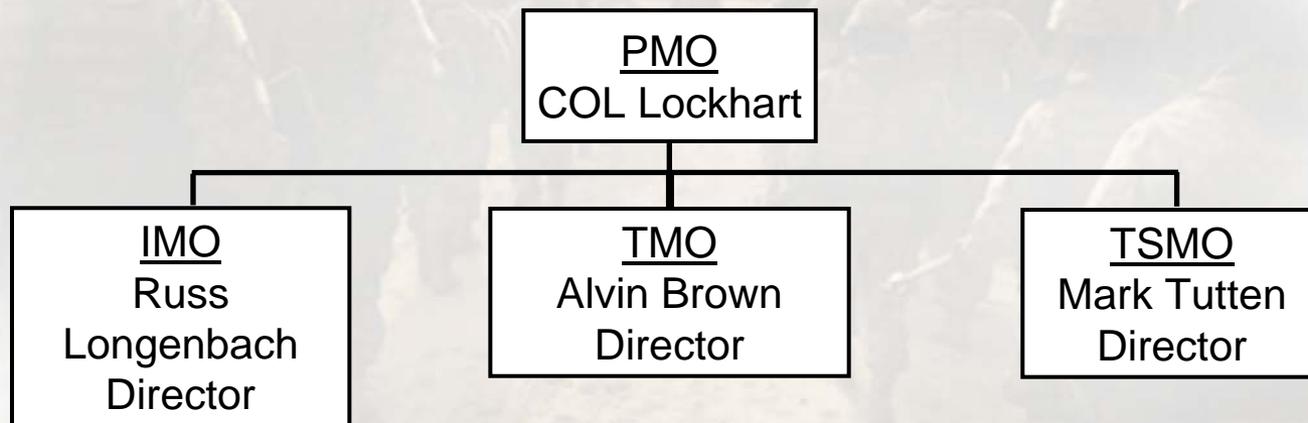
COL David Lockhart
Project Manager

PM ITTS

TRAINING & SIMULATION INDUSTRY SYMPOSIUM 2008



PM ITTS



IMO



Instrumentation Management Office

DETEC II



Directed Energy Test & Evaluation Capability (DETEC) II

Test Instrumentation Systems

- ❑ DOD Test Resource Management Center (TRMC) funding via Central Test and Evaluation Investment Program (CTEIP)
- ❑ High Energy Laser (HEL) and High Power Microwave (HPM) test infrastructure development for multi-Service Major Range and Test Facility Base (MRTFB) sites (e.g. WSMR, China Lake)
- ❑ DETEC II addresses high priority DE testing shortfalls from a Dec 2007 Tri-Service Study based on multi-Service needs:
 - Program scope currently under resolution
 - Acquisition planning in early stages
- ❑ Follow-on to highly successful execution of DETEC I

DETEC II

Acquisition and Management Concept:

- ❑ Single Systems Integration Contractor (SIC) responsible for multiple capability development and integration efforts (15 for DETEC I)
 - Requirements validation
 - Capability acquisition (subcontract award and management)
 - Capability integration, training, acceptance testing
- ❑ Capability solutions provided by others (industry, government, academia)
 - MRTFB host site takes ownership
 - Capabilities to be mobile/transportable to other ranges

Acquisition Strategy

STOC II Systems Integration Contractor providing systems engineering and acquisition management of multiple capability developments

Funding

FY 09 – FY 14 ~ \$50M - \$100M
(funding dependent / includes all capability subcontract awards)

Point of Contact

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Milestones

2 nd Qtr FY09	3 rd Qtr FY09	FY 09 – FY 14
▲	▲	▲
RFP Release	Contract Award	Development & Fielding Period



Objective Helicopter Icing Spray System



Design, Fabricate, Install, Test one-of-a-kind Icing Tanker Equipment

- ❑ Replaces current system – improved performance and affordability
 - CH-47 Cloud Generation Equipment
 - UH-60 Cloud Characterization Equipment
- ❑ Supports military and commercial icing condition certification tests
 - IPT includes Army, Navy, AF, FAA, and NASA
 - Aviation Technical Test Center is the User

OHISS

Key Prime Contract Objectives:

- ❑ Government requires a turn-key system
 - ATTC will support flight certification and flight testing
 - ATTC will provide access to aircraft and documentation
- ❑ RFI Issued 9 Jan 2008 – contained performance spec and SOO
 - Monitor FedBizOpps posting (keyword “OHISS”) for updates
- ❑ Industry Day 23 July at Ft. Rucker – more info on FedBusOpps

Acquisition Strategy

STOCII - Cost Plus contract type

Funding

RDTE FY 09- FY 13 ~ \$7.5M – \$ 15M

Point of Contact

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Milestones

1 st Qtr FY09	1 st Qtr FY09	2 nd Qtr FY 13
▲	▲	▲
RFP Release	Contract Award	FOC



TRMC T&E/S&T BAA



Test Resource Management Center (TRMC) Test & Evaluation / Science & Technology (T&E/S&T) Program

Test Instrumentation S&T (4 separate focus areas)

- ❑ DOD Test Resource Management Center (TRMC) S&T funding
- ❑ S&T applied technology (6.3) funding matures development of high-risk, high-payoff test technologies that directly support weapon systems T&E DoD test ranges/facilities
- ❑ PEO STRI FEDBIZOPPS Broad Agency Announcements (multi-year) under four distinct technology/focus areas:
 - Directed Energy Test (DET): W900KK-08-R-0012
 - High Speed/Hypersonic Test (HSHT): W900KK-08-R-0017
 - Netcentric Systems Test (NST): W900KK-08-R-0018
 - Spectrum Efficient Technology (SET): W900KK-08-R-0019

TRMC T&E/S&T BAA



Broad Agency Announcement Process:

- ❑ Each focus area uses an annual Broad Agency Announcement (BAA) solicitation update to specific topic areas that seek test technology solutions targeting vital emerging T&E needs
 - Multiple projects managed and awarded for each focus area (e.g. DET focus area averages 6 -7 awards/year with total portfolio of 27 ongoing projects)
 - Offeror must meet key weapon systems T&E needs identified by DoD test ranges/facilities
 - S&T challenge must effectively address topic area shortfalls

Acquisition Strategy

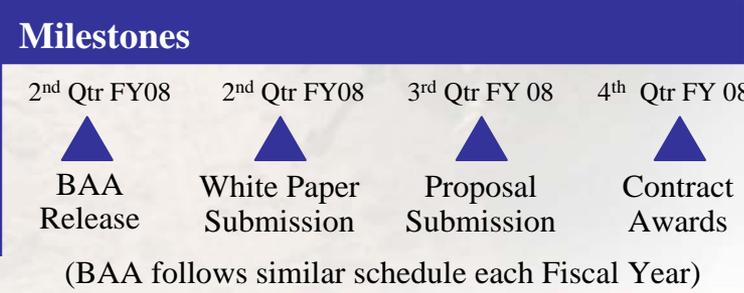
Two-phased bids: 1) White Papers review
2) RFP invitation - Awards based on prioritized benefit and available funds
S&T / APPLIED TECHNOLOGY

Funding

Annual 'first-year' funding of awarded contracts (multiple) est. \$20–30M over next few FYs; Annual total project funding grows to \$80-100M by FY11

Point of Contact

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TMO



Targets Management Office

TMO Topics



- Air Defense Artillery Aerial Training Targets
- Aerial Targets Flight Services
- Mobile Ground Targets
- Rotary Wing Inexpensive Targets and Technology Demo
- 2^{1/2} & 3 Dimensional Realistic Thermal Targets

ADA Targets



Air Defense Artillery Targets:

- Small Remotely Piloted {Aerial} Vehicle Targets (RPVT)
 - Support equipment / Scoring systems
 - Multiple interchangeable payloads
 - World Wide Operations.
- Supports the ADA Training program
- May be used as UAS target for Testing

Acquisition Strategy

Small Business Set Aside:
FFP - Hardware
CPFF- Engineering services
Cost reimbursable ODC

Point of Contact

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Funding

OPA ~ \$47M over life of contract

Milestones

3rd Qtr FY 08

▲
RFP
Release

4th Qtr FY 08

▲
Contract
Award

Aerial Target Flight Services (ATFS)



Aerial Target Flight Services:

- ❑ Contract is for target flight service operations throughout the world
- ❑ Operates, and sustains aerial target systems to support air defense artillery (ADA) training, multi-service research, development, test and evaluation (RDT&E) and foreign military sales (FMS) requirements.
- ❑ Primary operations sites are White Sands Missile Range (New Mexico) and Ft. Bliss (Texas), with base camp in New Mexico

Acquisition Strategy

Full and Open Competition

Funding

FY 09 – FY 15 ~ \$19M Total Contract Value

Point of Contact

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Milestones

3rd Qtr FY09

▲
RFP
Release

3rd Qtr FY09

▲
Contract
Award

▲
Establish
First DB

Mobile Ground Targets



Mobile Ground Targets:

- ❑ Procurement of foreign threat ground hardware
 - Functionality ranging from fully operational systems to hulks
 - Includes surrogates, spare parts and manuals
 - OPFOR Threat Vehicle (OTV) Company for Force on Force Testing
- ❑ Used by Department of Defense (DoD) Test and Evaluation (T&E) agencies
- ❑ Full and open Competition;
 - Firm Fixed price procurements; Cost Plus Fixed Fee development options.

Acquisition Strategy

IDIQ Contract – FFP, 5yrs
 Full and Open Competition
 Multiple Vendors Award Contracts

Funding

RDTE FY09–FY14 ~ \$30M-\$35M

Point of Contact

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Milestones

1 st Qtr FY09	4 th Qtr FY09	3 rd Qtr FY 10
▲	▲	▲
RFP Release	Contract Award	Initial Delivery

Rotary Wing Targets



Rotary Wing Target Replacement Program:

- Replacement threat representative Rotary Wing NDI target:
 - Inexpensive lifecycle cost.
 - Provides threat representative Visual, Radio Frequency and Infrared signatures.
 - Minimal development.
- Approximately 12 targets are needed over the life of this program.
- Currently unfunded effort.

Acquisition Strategy

Procure a non-developmental solution that meets the needs of DoD. A technology demonstration is desired prior to contract award.

Funding

\$10M (unfunded)

Point of Contact

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Milestones

TBD	TBD
▲	▲
RFP Release	Contract Award

2^{1/2} & 3 D Realistic Thermal Targets



Realistic Thermal Targets:

- ❑ The Targets Management Office is seeking new “Economical” technologies and approaches to provide realistic 2 ½ and 3 dimensional visual and visual/thermal targets to support a variety of testing and training needs.

Acquisition Strategy

Competitive effort – AMCOM
Express

Funding

RDT&E
FY09 \$.965 M
FY10 \$1.140 M

Point of Contact

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Milestones

TBD
▲
RFP
Release

TBD
▲
Contract
Award

TSMO



Threat Systems Management Office



TSIJ SYSTEM



Threat Signal Injection System

- ❑ Technology development efforts for radio frequency (RF) wideband direct injection jamming
- ❑ Applied to the development of simulated threat system to support testing within FCC frequency limitations
- ❑ Testing can be conducted via direct injection of threat jammer signals into the System Under Test (SUT), mitigating effects of open air jamming



TSIJ SYSTEM



Injection Jammers and their Control Signal Transmitters:

□ TSMO will solicit competitive bids on the assembly of 440 each 4-channel Remote Jamming Units (RJU) along with production upgrades to 15 each of their Control Signal Transmitters (CST). Full Operational Capability is expected by the end of FY 2011. In FY 2012, separate competitive awards will be made to produce 110 each 2-channel “manpack” sized RJUs along with 290 each 5-channel “combination” COMS & GPS RJUs along with 40 each remote, “all-weather” CST units.

Acquisition Strategy

STOCII

Funding

(\$ in Mil)	FY10	FY11	FY13	FY14
Total OPA:	3.583	3.432	5.424	7.141

Point of Contact

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Milestones

RJU -	Apr 09	Jan 10	Oct 10
Manpack -	Jan 12	Jan 13	Oct 13
	▲ RFP Release	▲ Contract Award	▲ Establish First DB



Foreign Systems Acquisition

Foreign Military Sales



Foreign Military Sales:

- Ranges/Vehicles
- Relationship with OEM
- Access to certified parts
- Identified as the preferred source
- Warranty/Logistics System

Acquisition Strategy

Direct
Sole Source
Competitive

Funding

~ \$500M - \$1.5B

Point of Contact

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Milestones

Varioius in response to
theater requirements
FY 10-15