

ANG Trainer Development



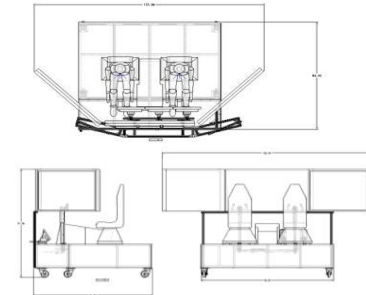
KC-135 BOSS Production

HH-60G PHAROS Prototype



RC-26 CMCT

M2CRMT Prototypes



Ron Kornreich

Organization: NGB/A5I

Phone: (301) 836-8160

Email: ronald.kornreich.ctr@ang.af.mil

Date: 12 May 2009

The information provided in this briefing is provided for information purposes only, represents a best understanding of the procurement as of the presentation date, and is subject to change or cancellation without notice.



Boom Operator Simulation System



U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow...Deliver Today

Description

The Boom Operator Simulation System (BOSS) training system consists of a high fidelity replication of the KC-135 boom operator's pod; associated operating systems; 4-channel image generation and projection systems; instructor operator station, physics based tanker and receiver models; threat environment generation station and ARCNet Gateway. Fully qualified boom operators at 17 ANG KC-135 flying units will use the device for continuation, recurrency and mission rehearsal training. Units will conduct Distributed Mission Operations (DMO) through the ANG Distributed Training Operations Center (DTOC).

Acquisition Strategy

- Single award for full production and sustainment contract
 - Firm Fixed Price per BOSS unit
 - TSSC in-plant
 - CLS support on call
- Prototype data and design package government furnished
- DMO certification and ARCNet Gateway GFE
- STOCK II (?)

Funding

- Initial procurement will include minimum 3 unit buy
- Additional procurement as funding becomes available
 - Pre-priced optional CLINs
- CLS for one base year with four option years FY11
- Priced option for onsite field engineer / operator support
- Total program cost < \$25 million

Program Office POC

Mr. Ron Kornreich
NGB/A5I
(301) 836-8160
ronald.kornreich.ctr@ang.af.mil

Procurement Authority POC

John Tackis
677th AESG
(937) 255-2272
john.tackis@wpafb.af.mil



Boom Operator Simulation System



U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow...Deliver Today

Summary of Program Requirements

•The BOSS will use cutting edge high definition stereo 3D technology to provide unparalleled depth perception for the boom operator. Full CAD package and software provided but **winning bidder is expected to adapt prototype design to production version**. High fidelity replication of the KC-135R boom pod with minimum reliance on actual aircraft components. Additional high fidelity receiver models will be added during contract period. Contractor will assist other simulator programs upgrade capabilities for BOSS DMO compatibility. On call maintenance will be provided. Contractor will staff BOSS Training System Support Center . The contractor will maintain current DMON Certification. The BOSS will operate at the SECRET level.

Milestones

- RFI (sources sought) summer 09
- BOSS Industry Day planned early fall 09
 - BOSS prototype will be available for inspection
 - Complete design package will be available on CD
- RFP and contract award early FY10
 - Prototype will be relocated
- First production delivery within 12 months after contract award

End User POC

Col Charles Powley
 NGB/A30
 (703) 607-2769
 charlie.powley@ang.af.mil

Current Contract (if recomplete)

QuantaDyn Corp, PO Box 786, Herndon VA 20172
 (software only)
 12MSG/TF, Randolph AFB TX (hardware)

Original Developer/OEM (if recomplete)



HH-60G PHAROS



Dominant Air Power: Design For Tomorrow...Deliver Today

Description

The Pave Hawk Aircrew Rehearsal and Operations Simulator (PHAROS) training system consists of a high fidelity replication of the HH-60G aircraft flight deck and cabin; associated operating systems; helmet mounted image generation; instructor operator station, threat environment generation station and ARCNet Gateway. Fully qualified rescue aircrew, including PJs, and gunners will use the device for continuation, recurrency and mission rehearsal training. Units will conduct Distributed Mission Operations (DMO) through the ANG Distributed Training Operations Center (DTOC). The ANG has a requirement for **3** production versions of PHAROS.

Acquisition Strategy

- Hardware assembly by 12th MSG/TF
- Software development & integration by industry
 - Technology insertion / demonstration during Phase I
- CECOM R23G

Funding

- Both Phases I & II are funded
 - Source selection only in Phase II
- Total prototype program cost < \$5.0 million

Program Office POC

Mr. Ron Kornreich
NGB/A5I
(301) 836-8160
ronald.kornreich.ctr@ang.af.mil

Procurement Authority POC

Mr. Keith Seguin
12th MSG/TF
Randolph AFB TX
(210) 652-3293
Keith.seguin@randolph.af.mil



HH-60G PHAROS



Dominant Air Power: Design For Tomorrow...Deliver Today

Summary of Program Requirements

- PHAROS will be a two phased prototype program leading to an eventual production decision. Phase I will be a technology demonstration to include the ability to replicate environmental stresses on the aircrew (climate, vibration, smells, etc.). Phase II will add flight deck functionality and full simulator capability. The contractor will be responsible for software and hardware integration of the individual technology components from Phase I to achieve a coherent and seamless trainer. The contractor will develop sub meter visual data bases and integrate ANG furnished XCite Ops. Phase II may partially overlap and run concurrently with Phase I. The contractor will accomplish DIACAP certification. PHAROS will operate at the SECRET level.

Milestones

- Aircraft shell sourcing began Feb 09
 - Prototype will use salvaged H-60 a/c if available
 - Manufactured shell, if required, will be constructed by 12th MSG/TF
- RFP via CECOM R23G for software integration NLT June 09
- Phase II Industry Day at Randolph AFB TX
- Phase II Software & integration contract award summer 09
- Phase I & II completion in 24 months

End User POC

Col Charles Powley
 NGB/A30
 (703) 607-2769
 charlie.powley@ang.af.mil

Current Contract (if recomplete)

Original Developer/OEM (if recomplete)



RC-26B Combined Mission Crew Trainer



U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow...Deliver Today

Description

The **one of a kind** RC-26B Combined Mission Crew Trainer (CMCT) is being constructed for the FTU in Bridgeport WV to provide both initial qualification training for pilots and sensor operators as well as continuation and mission rehearsal training for all RC-26B aircrew. The CMCT will consist of three integrated, yet independent trainers: (a) flight deck procedural trainer; (b) full cabin egress trainer ; (c) high fidelity MSO station. The MSO station will consist of a sub meter visual data base, associated operating systems; image generation and projection systems; instructor operator station and ARCNet Gateway. Only the MSO station of the CMCT will be certified for DMO.

Acquisition Strategy

- Single award for MSO MCT software and hardware solution and CMCT multi-year sustainment contract
 - CLS for one base year with four option years
- DMO accreditation and certification
- ARCNet Gateway GFE
- CECOM R23G

Funding

- Single unit buy; install
- Pre-priced optional CLINs:
 - Second MSO station unit
 - On site field engineer operator for full CMCT support
- Total program cost < \$3.0 million

Program Office POC

Mr. Ron Kornreich
NGB/A5I
(301) 836-8160
ronald.kornreich.ctr@ang.af.mil

Procurement Authority POC

Keith Seguin
12MSG/TF
(210) 652-3293
Keith.seguin@randolph.af.mil



RC-26 Combined Mission Crew Trainer



U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow...Deliver Today

Summary of Program Requirements

The contractor will develop software and database solutions and construct the MSO station for integration into the existing CMCT in WV. The contractor will integrate all ISR sensor capabilities from the aircraft into the simulator. Instructor operator functionality will be added to the existing IOS. DIACAP and DMON Certification for MP XX. Government will furnish ARCNet Gateway and XCite Ops threat environment for integration. A SECRET CAGE code is required.

Milestones

- Industry day not planned
- A/C shell with Cockpit and Egress Trainer will be delivered to WV FY10/1
- MSO MCT RFP FY09/3
- Contract award Summer 09
- MCT delivery within 12 months after contract award

End User POC

Maj Timothy White
 130 AW, Det. 1
 WV ANG
 (304) 266-8574
 timothy.k.white@us.army.mil

Current Contract (if recomplete)

12MSG/TF, Randolph AFB TX (hardware)

Original Developer/OEM (if recomplete)



Multi Mission Crew Resource Management Trainer



U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow...Deliver Today

Description

The Multi Mission Crew Resource Management Trainer (M2CRMT) training system consists of high fidelity displays of KC-135R, C-130H/J , RC-26B and C-27J (FY12) flight deck instrumentation, associated operating systems; image generation and display systems; integral control loaders; internal instructor operator functionality, threat environment and ARCNet Gateway. Modular construction minimizes foot print and facility requirements. Fully qualified aircrew at more than **45** ANG flying units will use for continuation, recurrency; emergency and mission rehearsal training to supplement higher fidelity WSTs. The M2CRMT micro sims will be certified for limited DMO.

Acquisition Strategy

- 4 prototypes will be constructed by 12th MSG/TF
 - SME evaluation
- Source selection for software development contractor
 - DMO certification
- CECOM R23G

Funding

- Approximately 30 units are funded
 - Additional procurement as required
- CLS for one base year with four or five option years
- Total program cost including CLS < \$2.0 million

Program Office POC

Mr. Ron Kornreich
NGB/A5I
(301) 836-8160
ronald.kornreich.ctr@ang.af.mil

Procurement Authority POC

Keith Seguin
12MSG/TF
(210) 652-3293
Keith.seguin@randolph.af.mil



Multi Mission Crew Resource Management Trainer



U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow...Deliver Today

Summary of Program Requirements

The M2CRMT will employ common hardware solutions for the KC-135R, C-130H/J, RC-26B and C-27J to maximize economies of sale and common sustainment efforts. ANG furnishes all hardware components. Minor differences allowed to accommodate specific throttle quadrant, control wheel configurations and limited MDS unique requirements Contractor developed operating system software will include highly accurate MDS aircraft flight models and control loading. Initial deliveries will be stand alone trainers while parallel DMO integration progresses. Government will furnish ARCNet Gateway and XCite Ops threat environment for integration. A SECRET CAGE code is required.

Milestones

- Industry day not planned
- RFP Spring / early Summer 09
- Software integration contract award Summer 09
 - Multi year CLS sustainment
- CRMT software delivery within 6 months after contract award
- Production deliveries FY10/2

End User POC

Col Charles Powley
NGB/A30
(703) 607-2769
charlie.powley@ang.af.mil

Current Contract (if recomplete)

12MSG/TF, Randolph AFB TX (hardware)

Original Developer/OEM (if recomplete)



U.S. AIR FORCE

Contacts:

Lt Col Chris Finerty, NGB/A5I

Chief, Requirements Integration Division

703-607-3512

Christopher.finerty@ang.af.mil

Lt Col Pete Rabinowitch, NGB/A5RM

Chief, Global Mobility Requirements Branch

301-836-8589

Peter.rabinowitch@ang.af.mil

Mr. Ron Kornreich, NGB/A5I

Program Manager, Trainer Development

301-836-8160

Ronald.kornreich.ctr@ang.af.mil