

Headquarters U. S. Air Force

Integrity - Service - Excellence

Briefing for Industry
Solicitation #: FA9422-12-R-0001
Secure Transportable Maintenance System
(STMS)



PROGRAM MANAGER: Wayne Descheneau, 498 NSW/NWAW
CONTRACTING OFFICER: Donna Heinz, AFNWC/PKE

DATE: 20 September 2011

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- **Day 1 Schedule (20 Sept.)**
 - **12:00-12:30 pm, Arrival and Check-In**
 - **12:30-12:45 pm, Ground Rules**
 - **12:45-2:30 pm, STMS Technical Brief**
 - **2:30-2:45 pm, Break**
 - **2:45-3:15 pm, Technical Q&A**
 - **3:15-4:00 pm, Contracts Brief and Q&A**
 - **4:00-5:00 pm, Additional time for Technical and/or Contracting Q&A (if required)**



Industry Day Solicitation FA9422-12-R-0001

- **Vendors must bring initial written questions to support one-on-one discussions**
- **21 September 2011**
- **0815-0900 One-on-One (Shook Mobile Technology)**
- **0915-1000 One-on-One (Battelle Memorial Institute)**
- **1015-1100 One-on-One (R&R Transportation)**
- **1115-1200 One-on-One (MCT Industries)**
- **1200-1300 Government Lunch Break**

- ***One-on-Ones will resume after lunch with the same increments of time allotted, should they be necessary to accommodate all industry requests.**



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Meeting Administrative

- **If there is a fire alarm, please use the closest exit**
 - **Form up area**
- **Shelter-in-place (in case of active shooter)**
 - **In the unlikely event of a shelter in place order: take cover**
- **Please silence cell phones**
- **For lunch, dinner**
 - **Local off-base restaurant list is available at the back of the room during break**



- **Industry is encouraged to provide written questions, at any time, during Industry Day**
 - **Hand questionnaire forms to Donna Heinz or 2Lt Joe Castillo**
 - **Please include e-mail address on the provided form**
 - **No “proprietary” questions please**
 - **All questions & responses will be posted on FedBizOps (FBO)**
- **Verbal questions are also encouraged, especially during the Q&A sections of the agenda**
- **At any time, government reserves the right to table questions and provide formal written response via FBO at the conclusion of Industry Day**



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One-On-One With Industry

- **One-on-Ones will be conducted IAW the published schedule**
 - **Please arrive 15 minutes early**
 - **No marketing pitches authorized. Meeting will be adjourned if it evolves into a marketing pitch**
 - **The purpose is to provide opportunity for offerors to get their STMS questions answered.**
 - **Industry is requested to bring in their initial questions via the written questionnaire supplied**
 - **All questions/responses will be posted on FedBizOps**



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Contracting Points of Contact

- Use FEDBIZOPS for gaining your information relative to this RFP as it will always contain the most updated information
- When corresponding via e-mail, contact both the Contract Specialist 2Lt Joe Castillo at joe.castillo@kirtland.af.mil AND the Contracting Officer at donna.heinz@kirtland.af.mil
- When corresponding via phone, try contacting the contracting officer first at 505-846-9516
- If the contracting officer does not return your call in a timely manner, contact the contract specialist at 505-853-5137



Technical Points of Contact

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- Up until formal RFP release, contractors may direct technical questions to the team.
- Systems Engineer: Mr. Mark Marry may be reached at mark.marry@kirtland.af.mil, 505-846-3670
- WS3 Program Manager: Mr. Wayne Descheneau may be reached at wayne.descheneau@kirtland.af.mil, 505-846-4204



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Technical Briefing Outline

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- **STMS System Technical Program Overview**
 - **Mission**
 - **History**
 - **Requirements**
 - **Delivery**
 - **Training**
 - **Reviews**
 - **STMS Contract Data Requirements List**
 - **Summary**



- **Mission is to maintain weapon maintenance capability in NATO**
 - A mobile platform is required to meet needs
 - Technical work will be performed by USAF personnel
 - Platform will NOT transport weapons

- **Deliverables**
 - 1 Prototype unit - retrofit later to final production baseline
 - 9 Production units with initial spares
 - Training
 - Technical Orders



- **STMS predecessor: Weapons Maintenance Truck (WMT) in operation since 1991**
 - **Original design is at end of life**
 - **It is time to replace the system**





- **DTRA funded Sandia National Laboratory in 2004 to explore WMT replacement**
 - **Constructed Concept Trailer to refine requirements**
 - **Obtain feedback from users**





History – Requirements Changes

- **Maintenance issues in legacy WMT drove requirements changes**
 - Sustainability and reliability emphasis
 - Emphasis on COTS based future systems
 - Emphasis on ease of maintenance
- **User experience with legacy WMT and Concept Trailer also drove changes**
 - Reduce complexity
 - Emphasis is on essential requirements and functionality (KPPs and KSAs without additional features)



- **NATO has funded a replacement system - STMS**
- **The STMS trailer will serve as a maintenance platform for the support of forward deployed weapons in Europe**
- **Replaces the existing WMT and provides additional:**
 - **Maintenance capability**
 - **Security features**
- **Maintenance Concept**
 - **Maintained by USAF personnel**



Concept of Operations Summary

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- 3 modes of operation:
 - Transport - to PAS
 - Maintenance - of a Weapon
 - Attack - reaction
- Interfaces with
 - Weapon
 - Protective Aircraft Shelters (PAS)
 - Weapons Storage Vault (WSV)
 - Host nation infrastructure
 - Roads, power and telephone
 - Weapon loaders



OV-1



■ STMS Key Performance Parameters (KPP)

Number	KPP	Description	Requirement
KPP#1	Sustainment	Mission Capability Rate	90%
KPP#2	Compatibility	Compatible with operational and caretaker locations	Compatible with no modifications
KPP#3	Weapons Maintenance Capability	Existing maintenance capabilities for USAFE assigned weapons	Supports all current maintenance procedures
KPP#4	Security	Delay access to unauthorized individuals	15 minutes

Source: SRD



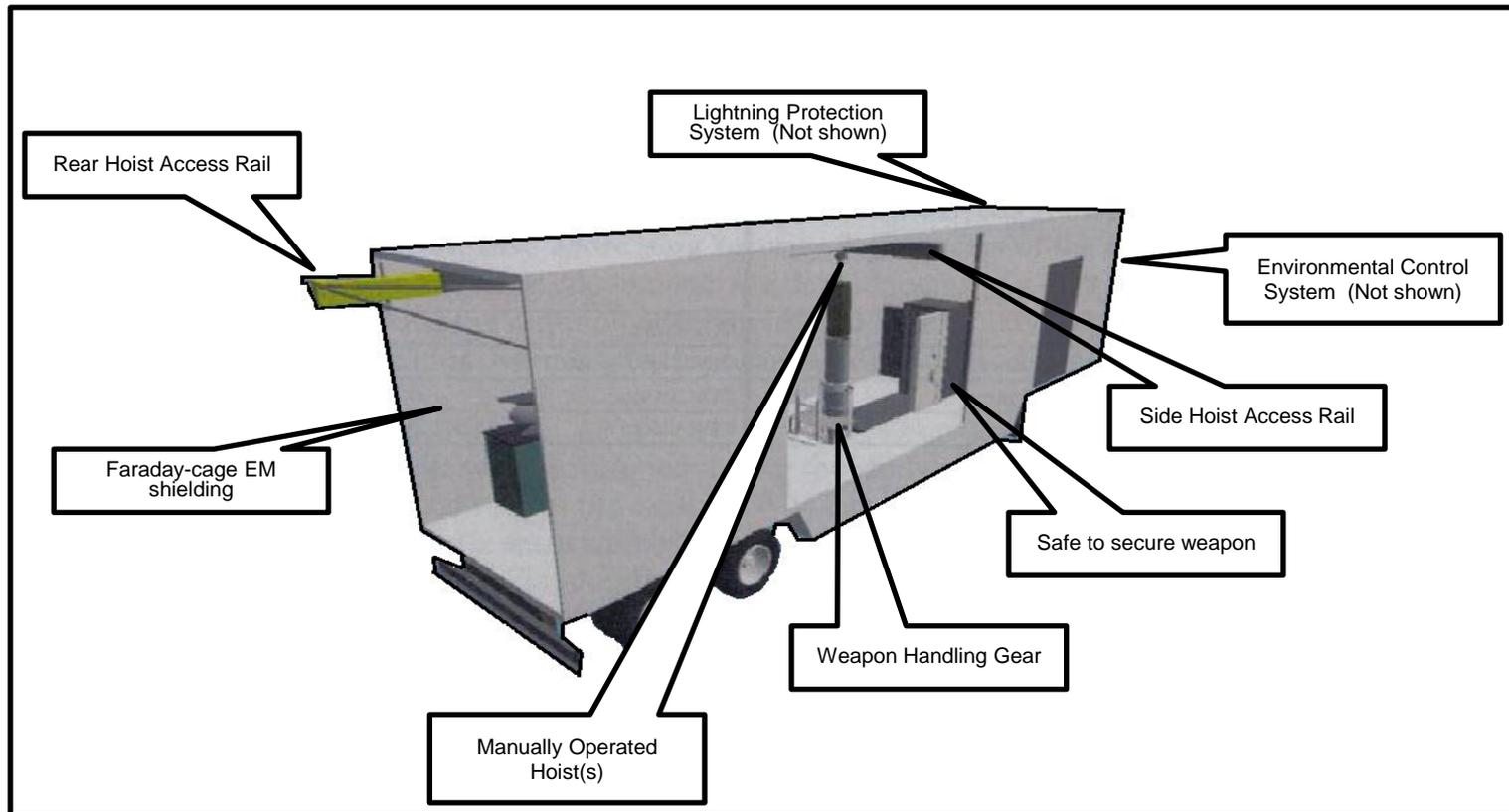
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STMS Major Subsystems

- **36 foot trailer**
- **Lightning Protection System (includes Faraday Cage)**
- **Environmental Control System**
- **Hoist system(s)**
- **Weapon handling gear**
- **Security (safe and obscurant)**
- **Power distribution system**



STMS Conceptual Design



SRD requires doors on other side!



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Maintenance Function Summary

- **Maintenance Functions**
 - **Periodic replacement of weapon components**
 - **Team composed of 5-9 USAF maintainers plus 4-6 observers/evaluators/QA**
 - **Max of 11-13 people inside the STMS**

Run mx animation

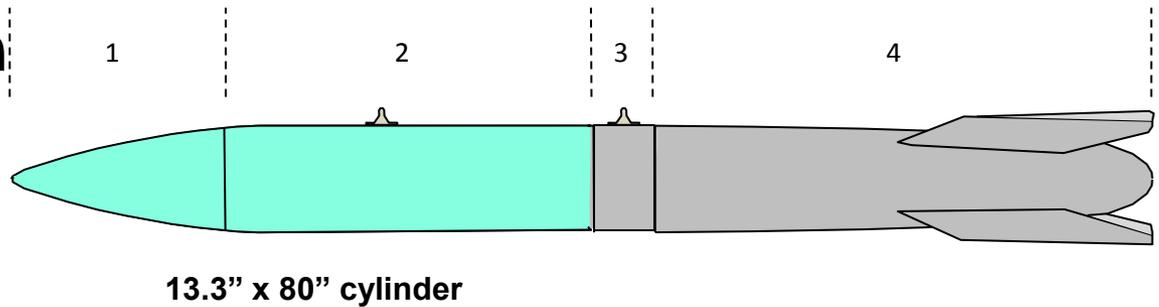


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Additional Weapon

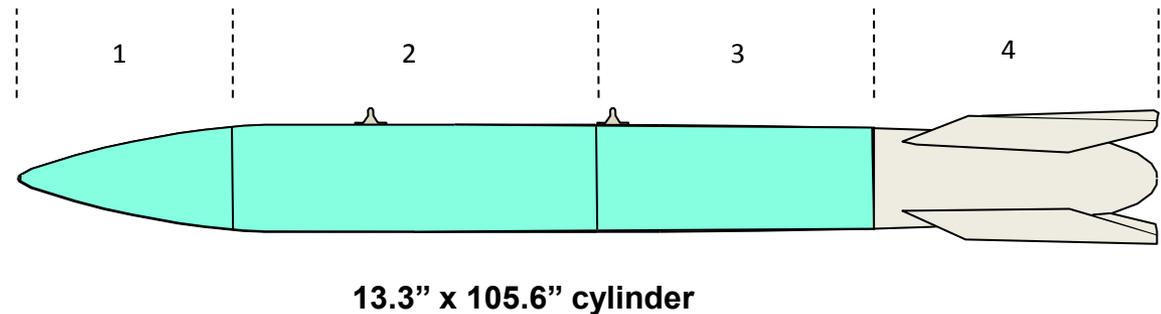
■ Baseline weapon

- Approx 755 lbs
- Length 141.6"
- Diameter 13.3"



■ Future weapon

- Approx 855 lbs
- Length 141.6"
- Diameter 13.3"





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Additional Maintenance Capability

- **Baseline Weapon Vertical Maintenance**
- **Sections 1 & 2 (see previous slide)**





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Handling Gear

- **Future weapon is horizontal maintenance only**





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- **Looking for simplicity and efficiency**
 - **Ease of supportability & maintainability over the system lifetime**
 - **Select parts to support supply chain management, ensuring greatest availability over the life of STMS**



- **Two types of Technical Orders required for training**
 - **Intermediate and Depot Maintenance**
 - **Operator**

- **Two training sessions**
 - **Prior to Government Operational Testing of prototype**
 - **After overseas delivery of the first STMS**

- **Student background will range from inexperienced to experienced with WMT maintenance and operations**



- **Kickoff Meeting/Systems Requirements Review**
- **Technical Order Guidance Conference with Government**
- **Preliminary Design Review**
- **Critical Design Review**
- **Functional Configuration Audit**
- **Operational Test Readiness Review**
- **Government Operational Test**
- **Physical Configuration Audit**
- **Production Readiness Review**



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Contract Data Requirements List

- **Draft CDRLs on FBO site**
- **First 13 are relatively standard**
- **CDRLs 14-18 summary follows**



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CDRL A014 Hazardous Materials Management Program (HHMP) Plan

- **Document use of hazardous materials with an emphasis on minimization**
- **Goal is to eliminate, reduce, minimize or control hazardous materials throughout STMS lifetime including disposal**



CDRL A015 Failure Modes Effects and Criticality Analysis (FMECA) Report

- **Analysis of independent single item failures and the resulting potential impact on mission success, performance, personnel safety, and maintainability**
- **The result highlights and allows removal of failure modes with relatively high probability and severity of consequences, allowing remedial effort to be directed where it will produce the greatest value**
- **Supports government use certification**



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CDRL A016 System Safety Program Plan (SSPP)

- Establishes contractor's plan for ensuring safety is designed into the STMS
- Feeds the government's system safety certification



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CDRL A017 Source Data for Forecasting Diminishing Manufacturing Sources and Material Shortages(DMSMS)

- Enables the identification, forecasting and management of part obsolescence through the 20 year operational life of the STMS



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CDRL A018 Reliability & Maintainability (R&M) Program Plan

- Formally records the results of the contractor's reliability tests or analysis
- Used to evaluate the degree to which the reliability requirements have been met
- Our reliability KPP requirement is 90% mission capable rate



- **Acceptance testing at contractor facility**
- **Delivery to CONUS port (DD 250 sign-off)**
- **Government ships to Europe**



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STMS Requirement Summary

- **Legacy WMT is at end of life**
- **Concept trailer enabled refinement of requirements**
- **Updated Requirements are in STMS SRD**
 - **Seamless replacement of Legacy WMT**
 - **Simple design to ease maintenance**
- **Require all STMS to be delivered by 30 Jun 2014**

- **We are FUNDED**



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Agenda 2:45 – 3:15 Technical Q&A

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Agenda 3:15 – 4:00 Contracts Brief and Q&A

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STMS Contracting Brief

**Donna Heinz, Contracting Officer
Division Chief, AFNWC/PKE**



- **Acquisition Strategy Summary**
 - **Non-commercial using FAR Part 15 (Negotiated); conducting best value, full-trade off source selection**
 - **Full & Open Competition**
 - **U.S. only firms**
 - **Award a single contract containing both development and production of STMS**
 - **Fixed-Price-Incentive-Firm (FPIF) contract type w/milestone payments**
 - **Period of Performance: June 2012 – June 2014**
 - **NATO Funding: \$13M**



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FEDBIZOPS (FBO) Postings To Date

- **6 May 11, Sources sought notice and request for capability statements**
 - **Outcome: Full and Open Competition (Only U.S. Firms)**
 - **14 Jul 11, RFI on security requirement and contract type**
 - **Outcome: Security capability confirmed and decision to use Fixed-Price-Incentive-Firm contract type**
 - **Industry provided opportunity to comment on draft RFP documents**
 - **5 Aug 11, Draft Statement of Work (SOW) and System Requirements Document (SRD) posted**
 - **26 Aug 11, Draft Systems Engineering Plan (SEP) posted**
 - **2 Sep 11, Draft Contract Data Requirements List (CDRLs) posted**
 - **9 Sep 11, Draft Section L, Instructions to Offerors, and Section M, Evaluation Criteria posted**
-



- **Anticipate posting Q&A regarding draft documents and final draft RFP (in its entirety) on FBO no later than 23 Sep 11**
- **In order to support a November formal RFP release, it is critical we receive industry feedback no later than 3 Oct 11**
- **A bidders technical library is being compiled and will be provided in the form of a CD to bidders (upon request, and after release of the formal RFP)**



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Notional Timeline (dates subject to change)

- **23 Sep 11, Draft RFP posted on FBO w/industry comment due 3 Oct 11**
- **13 Oct 11, Acquisition Strategy Panel Brief (internal government brief)**
- **14 Oct 11, Notice of Contract Action Posted on FBO**
- **01 Nov 11, Release formal STMS RFP**
- **16 Dec 11, Proposals due**
- **01 Jun 12, Anticipated contract award date**



■ CLIN 0001, Phase 1:

- Contractor is required to provide all material, facilities and equipment to perform the requirement of development, design and construction of one (1) STMS production representative prototype.
- Contractor is required to conduct contractor testing, as well as support government operational test, develop technical orders and training, and conduct other associated tasks as listed in SOW Para 3.2.



■ CLIN 0002, Phase 2:

- Contractor is required to develop, design and construct nine (9) STMS production units, retrofit prototype to final production configuration and conduct one European training session. See SOW section 3.3. for the complete list of associated tasks required in Phase 2.
- After completion of Phase I and government verification that the prototype design meets the design and operational requirements, the government will gain approval to enter production (Milestone C decision).
- Once Milestone C approval is gained, contractor will be given approval to proceed with Phase 2.
- The contractor may not perform work or incur any costs relative to this CLIN prior to receiving this notice to proceed. Note: there is potential delay of 30-60 days between contractor completion of phase I and issuance of notice to proceed with Phase 2.



Budget/Funding Constraints

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- **STMS effort is funded by NATO, so program cost growth must be avoided**
- **Government will provide incentive for industry to underrun available funding while meeting the June 2014 delivery date with a consistently high quality product**
- **NATO has authorized \$13M for STMS development and production (\$13M, includes incentive pool possible with an FPIF contract type)**
- **CDRL A001, Monthly Status Report, requires cost data reporting to support NATO reimbursement rules**



- **CLINS 0001 and 0002 will be FPIF; the draft incentive design is as follows:**
 - **The target cost, profit, price, ceiling price and share ratio are as follows:**
 - **Target Cost** _____
 - **Target Profit** _____
 - **Target Price** _____
 - **Ceiling Price** _____ (120% of Target)
 - **Share Ratio** 80/20 Over
50/50 Under



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Draft CLIN Structure

- **CLIN 0003, Travel (Cost Reimbursable)**
- **CLIN 0004, Shipping (Cost Reimbursable)**
- **CLIN 0005, Data (not separately priced)**



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Phase II: STMS Delivery and Training

- **Once production & checkout of each STMS unit takes place in plant, the contractor will deliver the STMS unit to a CONUS shipping point for formal government acceptance**
- **Government is responsible for overseas shipment and deployment of STMS units**
- **Once the first STMS unit reaches its destination (NATO country), the contractor will provide training**
- **The initial location has yet to be determined but two base access clauses (Germany and Italy) are included in the RFP to potentially prevent need for future contract modification**



- **STMS is a relatively straightforward development & production effort**
 - **The government anticipates most of the design effort will be integrating existing COTS technology**
- **Government plans to use an FPIF contract structure**
- **Government plans on releasing the RFP on 1 Nov 11 with proposals due on 16 Dec 11**
- **Contract award planned for 1 Jun 12**
- **Final delivery of the prototype and all 9 STMS production units required by 30 Jun 14**



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Contracts Brief

- **Contracting Q&A Discussion**



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Agenda 4:00 – 5:00 Additional time as needed

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