

FOIA Electronic Reading Room

Document Coversheet

Document Description

CONTRACT NUMBER 08-C-0000

- This document has been released in its entirety.
- Portions of this document have been excised pursuant to the Freedom of Information Act. The applicable portion(s) excised and the exemption(s) applied are indicated below.
- Exemption (b)(1) Information excised is properly and currently classified in the interest of national defense or foreign policy.
- Exemption (b)(2) Information excised is related solely to the internal rules and practices of the Agency.
- Exemption (b)(3) Information excised is specifically exempt from disclosure by an Executive Order or Statute. Specifically: [REDACTED]
- Exemption (b)(4) Information excised is commercial or financial information received from outside the Government and is likely to cause substantial harm to the competitive position of the source providing the information.
- Exemption (b)(5) Information excised is internal advice, recommendations, or subjective evaluations pertaining to the decision-making process of the Agency.
- Exemption (b)(6) Information excised is Personal information which if disclosed would result in an unwarranted invasion of personal privacy.
- Exemption (b)(7) Information excised is investigatory records or information compiled for law enforcement purposes.
- Exemption (b)(8) Information excised is records for the use of any agency responsible for the regulation or supervision of financial institutions.
- Exemption (b)(9) Information excised is records containing geological and geophysical information (including maps) concerning wells.

Please direct inquiries regarding this document to:

Commander (Code K0000D FOIA)
Naval Air Warfare Center Weapons Division
1 Administration Circle Stop 1009
China Lake, CA 93555-6100

b(4) + b(6)

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING DO-A7	PAGE OF PAGES 1 50
2. CONTRACT (Proc. Inst. Ident.) NO. N68936-08-C-0034		3. EFFECTIVE DATE 25 Mar 2008		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. 1300100718	
5. ISSUED BY CDR NAWCWD CODE 2100000 ATTN: P. KIRSCHMAN 429 E BOWEN RD STOP 4015 CHINA LAKE CA 93665-6108		CODE N68936	6. ADMINISTERED BY (If other than Item 5) DCMA RAYTHEON-TUCSON P.O. BOX 11337 BLDG 801 M/S D-4 TUCSON AZ 85734-1337		CODE S0305A
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, state and zip code) RAYTHEON MISSILE SYSTEMS COMPANY RAYTHEON MISSILE SYSTEMS SITE 1151 EAST HERMANS RD, BLDG 807/H7 TUCSON AZ 85706-9367			8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)		9. DISCOUNT FOR PROMPT PAYMENT
CODE 15090			FACILITY CODE		10. SUBMIT INVOICES 1 (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: ITEM Section G
11. SHIP TO/MARK FOR See Schedule		CODE	12. PAYMENT WILL BE MADE BY NAVY ERP NAVY ERP ENTERPRISE RES PROGRAM OFC SUITE 2100, 218T FLOOR 1700 N MOORE STREET ARLINGTON VA 22209-5000		CODE N60120
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 253(c)			14. ACCOUNTING AND APPROPRIATION DATA See Schedule		
15A. ITEM NO.	15B. SUPPLIES/ SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
SEE SCHEDULE					
15G. TOTAL AMOUNT OF CONTRACT					\$17,292,804.00
16. TABLE OF CONTENTS					
(X) SEC.	DESCRIPTION	PAGE(S)	(X) SEC.	DESCRIPTION	PAGE(S)
PART I - THE SCHEDULE			PART II - CONTRACT CLAUSES		
X A	SOLICITATION/ CONTRACT FORM	1 - 2	X I	CONTRACT CLAUSES	23 - 30
X B	SUPPLIES OR SERVICES AND PRICES/ COSTS	3 - 4	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS		
X C	DESCRIPTION/ SPECS/ WORK STATEMENT	5 - 12	X J	LIST OF ATTACHMENTS	31 - 48
X D	PACKAGING AND MARKING	13	PART IV - REPRESENTATIONS AND INSTRUCTIONS		
X E	INSPECTION AND ACCEPTANCE	14	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	
X F	DELIVERIES OR PERFORMANCE	15 - 16		L	INST'RS, CONDS, AND NOTICES TO OFFERORS
X G	CONTRACT ADMINISTRATION DATA	17 - 19	M	EVALUATION FACTORS FOR AWARD	
X H	SPECIAL CONTRACT REQUIREMENTS	20 - 22			
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE					
17. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)			18. <input type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.		
19A. NAME AND TITLE OF SIGNER (Type or print)			20A. NAME AND TITLE OF CONTRACTING OFFICER DIANE E FOUCHER / PROCUREMENT CONTRACTING OFFICE TEL: (760) 939-8160 EMAIL: diane.foucher@navy.mil		
19B. NAME OF CONTRACTOR		19C. DATE SIGNED	20B. UNITED STATES OF AMERICA		20C. DATE SIGNED
BY _____ (Signature of person authorized to sign)			BY <u>Diane E. Foucher</u> (Signature of Contracting Officer)		25-Mar-2008

Section A - Solicitation/Contract Form

CLAUSES INCORPORATED BY FULL TEXT

FOR YOUR INFORMATION:

The following addresses and points of contact are provided:

Name: Emily Smith

Phone: (760) 939-3974

DSN: 437-3974

FAX: (760) 939-9651

Email address: emily.wood@navy.mil

U.S. Postal Service Mailing Address:

COMMANDER

CODE 254100D (E. Smith - 760-939-3974)

NAVAIRWARCENWPNDIV

429 E. BOWEN RD. MAIL STOP 4015

CHINA LAKE, CA 93555-6108

Direct Delivery Address (UPS, FedEx, etc):

COMMANDER

CODE 254100D (E. Smith)

NAVAIRWARCENWPNDIV

BLDG 982, MAIL STOP 4015

CHINA LAKE, CA 93555-6108

ATTENTION-IMPORTANT MODIFICATION NUMBERING INFORMATION:

Bilateral Modifications issued by the Department of Defense agencies are no longer assigned an official "P0000" number until the contracting officer has released/signed the modification. This change is a result of the Defense Finance and Accounting Service (DFAS) Business Management Modernization Program (BMMP) requirement that modifications are to be released in numerical order without skipping any "P0000" numbers.

To accommodate this change the Standard Procurement System (SPS) now assigns a unique Modification Control Number (MCN) to each modification when it is created. The MCN was established for contractors to track the approved version of the modification. This number, unique to the modification, is included on both the draft modification and the released/signed modification. The MCN can be found in Block 14 of all modifications. The use of the MCNs ensures DFAS only receives modifications in numerical order

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Multi Mode Sensor Suite (MMSS)	1	Lot		
	COST				
	Development, fabrication and demonstration of an advanced MMSS in accordance with the Section C Statement of Work.				
	FOB: Destination				
				ESTIMATED COST	\$17,275,000.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000101	For Navy Accounting Purposes Only				
	COST				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: 1300100718				
				ESTIMATED COST	\$0.00
	ACRN AA				\$1,250,000.00
	CIN: 130010071800001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000102	For Navy Accounting Purposes Only				
	CIN: 130010071800002			ACRN AA	\$750,000.00
	PURCHASE REQUEST NUMBER: 1300100718				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000103	For Navy Accounting Purposes Only	

CIN: 130010071800003	ACRN AA	\$400,000.00
----------------------	---------	--------------

PURCHASE REQUEST NUMBER: 1300100718

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002		1	LOT		NSP
	Contract Data Requirements List (CDRL)				
	In accordance with Exhibit A				
	FOB: Destination				

b(4)

Section C - Descriptions and Specifications

STATEMENT OF WORK

1.0 Scope and Background

This SOW details the tasks Raytheon will perform during execution of the Naval Air Warfare Center, Weapons Division's (NAWCWD), Multi-Mode Sensor Suite (MMSS) program. Execution of the combined tasks will result in the development, fabrication, and helicopter-mounted demonstration of an advanced MMSS to support Vertical Take-off Tactical Unmanned Aerial Vehicle (VTUAV) persistent Intelligence Surveillance, Reconnaissance, and Targeting (IRST) missions. The mission sets include combat engagement in the littoral environment, Over-the-Horizon (OTH) threat engagement, and anti-surface warfare. The developed system will establish a technology readiness level of 6+ (TRL-6+), and be suitable for entry into a System Development and Demonstration (SDD) program. The system features and capabilities shall include those listed in Table 1.

The MMSS performance requirements to be achieved by the Raytheon team are listed in Table 2. Also included in Table 2 are performance goals that the Raytheon team will diligently attempt to achieve when practical from the standpoint of technology, schedule and budget.

In execution of the MMSS program, Raytheon has joined with major subcontractors to ensure program success. () will have responsibility for the visible and MWIR sensors as well as the MMSS turret. () has responsibility for the MMSS lasers. Raytheon manages the subcontractor activities, ensures communication within the team is as required for program success, and is ultimately responsible for performance.

2.0 Program Structure, Schedule, and Milestones

The MMSS program is planned for five distinct tasks covering with 60-month duration, beginning in March 2008. Task 1 is the requirements definition task where performance requirements are finalized. Task 2 is the preliminary design task where a design concept is generated and documented that provides a clear path forward for the program. Task 3 is the detailed design task where a detailed design, capable of achieving program requirements and objectives, is generated and documented. Task 4 is the MMSS fabrication task where the system described by the detailed design is built, tested and proven to meet program requirements and objectives. Task 5 is the MMSS integration and test task where the Raytheon team supports the government during integration with government-developed ATR, integration with the test platform, and system demonstration.

Turret	<ul style="list-style-type: none"> All sensors will be housed into a turret derived from, and similar to the BR.IVE Star II
Eye-Safe LADAR	<ul style="list-style-type: none"> High-resolution, 3D imagery as required to support Government ATR, for high confidence ID at ranges up to 10 km Multipulse processing capturing range and reflectance for each and every pixel with the bandwidth required for accurate pulse processing
MWIR wave R Sensor	<ul style="list-style-type: none"> Accurate range data as required to support target geo-location Provide target detection and tracking for ranges up to 20 km Provide wide-area-search capability
Electro-Optical Sensor	<ul style="list-style-type: none"> Provide target detection and tracking for ranges up to 20 km Provide wide-area-search capability
Integrated Global Positioning System / Inertial Measurement Unit (GPS/MU)	<ul style="list-style-type: none"> Precision navigation Precision LADAR motion compensation Supports target geo-location
Laser Designator	<ul style="list-style-type: none"> Illuminate target for standard SAL engagement
Receipt of Target Information Handoff	<ul style="list-style-type: none"> Detection of targets whose position is provided from external sources
Interface to ATR System	<ul style="list-style-type: none"> Provide sensor imagery to government developed ATR processor in accordance to a jointly developed and maintained interface control document (ICD)
MMSS-1	

Table 1 – System Features and Capabilities. The Raytheon team will generate the system features needed for robust mission solutions

Description	Passive 2D imaging sensor	FLIR InSb FPA 18 μ pixel	3.3.10
Spectral Band	MWIR	3.4-5.0 μ m	3.3.10
Frame/Pixel Rate (minimum)	30 frames/second	30	3.3.12.2
Frame Size (nominal)	1024 x 1024 (width x height)	1024 x 1204 FPA windowed to 1024 x 720 to fit video into standard SMPTE format compatible with COTS components. Inclusion of 1024 vertical pixels to be studied as trade requiring custom electronics; FLIR has 1280 x 720 format MWIR FPA in future plans	3.3.10 3.3.12
Frame Size (ideal)	1024 x 1024 (width x height)		
Variable Frame Size	256 x 256 (minimum size)	FPA capable of windowing at 8-pixel boundaries for increased frame rates (not required by MMSS). MMSS windowing addressed in software in video processor.	3.3.10
FOR (azimuth)	$\pm 90^\circ$	0° to 360° , continuous	3.3.1
Field of Regard (FOR) (look-down)	0 to 60°	$+30^\circ$ to -120° relative to platform LOF	3.3.1
Pointing Accuracy	0.25 of pixel FOV	20 μ m (1 pixel in NFOV)	3.3.3
Targeting Capabilities	Steer at 0.1 second latency	TFU latency < frame time TFU slew rate ~ 1 rad/s maximum	3.3.1
Pixel Spacing	75×10^{-6} rad	20, 80, 120 μ m	3.3.4
Variable Pixel Spacing	Multiple FOV	Three FOVs	
Sensitivity		MMSS NEDT ~ 35 mK @ F/5	3.3.4
Pixel Digitization	16-bit	14-bit (SOA) packed into 16-bit word	3.3.10
Description	Passive 2D imaging sensor	Prosilica 1380C	3.3.11
Spectral Band	Visible/SWIR	Visible	3.3.11
Frame/Pixel Rate (minimum)	30 frames/seconds	30 frames/second	3.3.11
Frame Size (nominal)	1024 x 1024 (width x height)	1280 x 720	3.3.11
Frame Size (ideal)	1024 x 1024 (width x height)	1920 x 1080 upgrade possible	3.3.12.2
Variable Frame Size	256 x 256 (minimum size)	CAN window on 1 pixel boundaries	3.3.11
FOR (azimuth)	$+90^\circ$	0° to 360° , continuous	3.3.1
FOR (look-down)	0 to 60°	$+30^\circ$ to -120° relative to platform LOF	3.3.1
Pointing Accuracy	0.25 of pixel FOV	20 μ m (1 pixel in NFOV)	3.3.3
Targeting Capabilities	Steer at 0.1 second latency	TFU latency < frame time TFU slew rate ~ 1 rad/s maximum	3.3.1
Pixel Spacing	75×10^{-6} rad	20, 80, 120 μ m	3.3.11
Variable Pixel Spacing	Multiple FOV	Three FOVs	3.3.11
Pixel Digitization	16-bit	12-bit (de-Bayer results in 3 x 8-bit RGB)	3.3.11

MMSS-2

Figure 2 – System Compliance. The proposed MMSS is fully compliant to technical requirements (1 of 2)

Description	Active 3D (angle, angle, range) imaging sensor	Active 3D (angle, angle, range) imaging sensor	3.2.5
Spectral Band	Eye-safe (at the aperture for unaided viewing)	Eye-safe (at the aperture for unaided viewing)	3.3.8.8
Frame/Pixel Rate (minimum)	1 million pixels/second	0.5 million pixels/second at 10 km 1.0 million pixels/second at 7.5 km 1.5 million pixels/second at 6.0 km 2.0 million pixels/second at 5 km	3.2.5
Frame Size (nominal)	512 x 256 (width x height)	Variable width 2-1024 Height selectable 128 or 256 single scan Up to 1024 multiple scans	3.2.5
Frame Size (real)	1024 x 512 (width x height)	Variable width up to 1024 wide Variable height up to 1024 tall multiple scans need for heights greater than 256	3.2.5
Variable Frame Size	256 x 256 (minimum size)	256 x 256 - 1024	3.2.5, 3.3.4
FOR (azimuth)	+90°	0° to 360°, continuous	3.3.1
FOR (look-down)	0 to 60°	+30° to -120° relative to platform LOF	3.3.1
Pointing Accuracy	Half of pixel FOR	20 µrad (1 pixel in NFOV)	3.3.3
Range Accuracy	10 @ 10 km	8-15 cm geometry dependant	3.2.7
Pixel Spacing	2 x 10 ⁻⁵ radian (400 pixels on 16 m ² target at 10 km)	20 µrad FOV	3.2.7, 3.3.4
Variable Pixel Spacing	>500 pixels on target within 10 km	Two resolutions 20 µrad and 40 µrad	3.3.12, 3.2
Pixel Digitization	(range) Dynamic range at least 10 km with 1 cm precision (intensity) 16-bit	Quantization 0.82 cm 14 BIT meets requirement	3.2.11
Geo-Positioning GPS/MU	16 m per axis at 10 km ; e.g., LN-200 or LN-100 performance capability	NG 2000 on gimbal NG 2000 on gimbal	3.3.6

Table 2 System Compliance. The proposed MMSS is fully compliant to technical requirements (2 of 2)

3.0 Program Responsibility

Raytheon is responsible for successfully executing the program. In executing the tasks, Raytheon leverages the experience of its subcontractors and, to the fullest extent possible, the experience, technology, and hardware advances gained on prior LADAR development programs. Program execution is in accordance with the tailored and documented Raytheon process. Although Raytheon has full execution responsibility, Raytheon will work in a team relationship with NAWCWD to ensure program success, customer satisfaction, and the ability to rapidly transition the MMSS into an SDD program.

3.1 Program Management

Throughout the program, Raytheon is responsible for meeting all contract requirements which include cost, technical, schedule, reporting, subcontracting, and security. The program management function is responsible for acquiring, deploying, allocating, and controlling resources required for effective program execution. Program management is also responsible for ascertaining and assigning risk, and for the tracking of progress toward minimizing and controlling risk. Also included in program management are financial and data planning, control, and reporting to the government. Reporting mechanisms include the formal reports outlined in Section 4.4, meetings, and informal status reports conveyed through regular teleconferences and e-mails.

3.2 MMSS Program

The MMSS program consists of five distinct tasks: Requirements Definition, Preliminary Design, Detailed Design, Fabrication, and Integration and Test.

3.2.1 – Task 1.0 – Requirements Definition

The development team, consisting of the Raytheon team and the government team, shall finalize performance requirements for the MMSS that shall include Electro-Optical (EO), Mid-Wave Infrared (MWIR), eye-safe LADAR, Global Positioning System / Inertial Measurement Unit (GPS/IMU), and a standard laser designator that provides Semi-Active Laser (SAL) designation capabilities. The final performance requirements will be based primarily upon mission, environmental considerations, modes of operation, small helicopter UAV compatibility, automatic target recognition (ATR) requirements, affordability and life-cycle concerns, specific issues arising from discourse among the team members, and from parametric studies, trade studies, and interim hardware tests and demonstrations. Analyses of Concepts of Operation (CONOPS) will support the requirement finalization process to ensure that the program objectives can be achieved. Finalized requirements shall be documented in the System Requirements Specification (SRS) that the Raytheon team presents for government approval.

Major Objectives:

- Government approval of System Requirements Specification prior to Preliminary Design Review.
- Government approval of Software Requirements Specification prior to Preliminary Design Review.

Evaluation Criteria:

- Interaction with government team to specify requirements.
- Detailed technical development plan to meet requirements and reach goals.

3.2.2 – Task 2.0 – Preliminary Design

The Raytheon team shall generate a preliminary design that presents a clear path forward to affordable production and Life-Cycle Costs (LCC) relevant to later definition of a production system design. Specifically, the preliminary design will show that:

- The sensor subsystems (Electro-Optics (EO), Mid-Wave Infrared (MWIR), eye-safe LADAR, Global Positioning System / Inertial Measurement Unit (GPS/IMU), and standard laser designator) can be packaged within the form-factor, size, weight and power requirements.
- Adequate aperture can be achieved for all sensors in the package.
- Environmental issues, including those that arise because of the maritime environment, can be adequately addressed.
- Affordability objectives can be defined and achieved.
- Reliability and maintainability objectives can be defined and adequately addressed.

Major Objectives:

- Comprehensive and accurate preliminary performance analysis and reporting.
- Preliminary design package completed and submitted for government approval at the PDR.

- Analysis and/or bench testing of critical technology or components as needed to support preliminary design recommendations.

Evaluation Criteria:

- Data and analyses supporting claims of key technology components are well documented and are accurate and well-supported.
- Interaction of key technologies within overall MMSS system is described in sufficient detail in the review package to provide reviewers with a clear understanding of the value of the chosen technologies in the overall system.
- Analysis and bench testing to show system's potential to meet program goals is complete and well documented in the PDR package.
- Data supporting design choices is submitted in a format that can be easily utilized by reviewers to generate their independent assessment of design.

3.2.3 – Task 3.0 – Detailed Design

The Raytheon team will prepare and document a detailed design of all system and subsystem components, assemblies and subassemblies required to construct a fully functional MMSS that can be integrated with a government-developed ATR subsystem and installed aboard a helicopter test-bed for flight test and demonstration. The design task shall include the ability to generate confirmatory data that shows that the system and subsystems meet the requirements set forward in the requirements definition process. The Raytheon team shall submit its detailed design package at the CDR for the government's approval.

Major Objectives:

- Revise MMSS technology development/validation and demonstration/risk reduction plans as necessary to prepare the final design package.
- Conduct detailed performance analysis and reporting of the MMSS subsystem.
- Document and submit for the government's approval a detailed design of the MMSS subsystem.

Evaluation Criteria:

- Data and analyses supporting claims of key technology components are well documented and are accurate and well supported.
- Interaction of key technologies within the overall MMSS system is described in the review package in sufficient detail to provide reviewers with a clear understanding of the value of the chosen technologies in the overall system.
- Analysis and bench testing to show system's potential to meet program goals is complete and well documented in the critical design review package.
- Data supporting design choices is submitted in a format that can be easily utilized by reviewers to form their independent assessment of design.

3.2.4 – Task 4.0 – Multi-Mode Sensor Suite Fabrication

The Raytheon team shall fabricate the MMSS subsystem in accordance with the detailed design approved by the government at CDR. Through tests and analyses, the contractor shall provide design confirmatory data verifying that the fabricated system meets the design requirements. An as-built data package must be produced that documents the multi-mode sensor exactly as it was fabricated and indicating where the MMS deviates from the detailed design.

Major Objectives:

- Successful subsystem testing.
- Timely fabrication of a fully operational flight test MMSS subsystem.

- Timely and accurate assembly of the flight test MMSS subsystem.
- Complete and accurate laboratory test and evaluation results and reporting.
- Delivery of a flight-capable subsystem to the government for integration with government developed ATR subsystem and with the test-bed helicopter.

Evaluation Criteria:

- Complete and accurate documentation, approved by the government team, of any deviations between the critical design and the fabricated system.
- Effective transition of fabricated system to government team including support and operator training.

3.2.5 – Task 5.0 – Multi-Mode Sensor Suite Integration and Test

The government and Raytheon development team shall integrate the MMSS with the government-developed ATR processing subsystem and shall integrate the complete system into a demonstration aircraft. The planned demonstration aircraft is a helicopter which will allow for both very-low-altitude approaches to targets and for other VTUAV-like modes of operation. The helicopter provides maximum capability to simulate a wide variety of scenarios.

Integration with the government-developed ATR processing subsystem will require adherence to an Interface Control Document (ICD) that must be developed jointly by the government and Raytheon.

Major Objectives:

- Effective support of MMSS subsystem integration with government developed ATR subsystem.
- Effective support for integration of the complete MMSS system with test-bed helicopter.
- Effective support for flight testing to perform representative scenarios.

Evaluation Criteria:

- Ease of integration with government developed ATR subsystem.
- Ease of integration with government supplied test-bed helicopter.

4.0 Meetings

The contractor team shall support MMSS meetings and reviews as required. At a minimum, there will be two major meetings at contractor facilities; the Preliminary Design Review (PDR) and the Critical Design Review (CDR). The contractor team shall support quarterly review meetings and technical interchange meetings as necessary. Most status reviews will be conducted by telephone or teleconference and documented via e-mail.

Major Objectives:

- Effective support of all reviews and status requests.
- Ensure that the government and contractor development team is provided with timely and accurate technical and program information.
- Meet scheduled critical milestones.
- Identify threats to the program schedule with enough advance notice to minimize total program impact.

Evaluation Criteria:

- Demonstrated progress against the schedule.
- Delivery of accurate and timely status/schedule updates.
- Resolution of potential issues before they impact the overall schedule.

5.0 Data Requirements

The following data submittals will be fulfilled by Raytheon during program execution.

- Monthly technical, schedule, and financial status reports, to be submitted no later than the 15 day of each month.

- Quarterly progress review reports that include agendas, presentation materials, technical reports, schedules, and meeting minutes.
- Technical interchange meeting reports, as required.
- Preliminary Design Review (PDR) documentation that includes agendas, presentation materials, technical reports, technical drawings, schedules, and meeting minutes.
- Critical Design Review (CDR) documentation that includes agendas, presentation materials, technical reports, technical drawings, schedules and meeting minutes.
- Software Development Plan (SDP), tailored specifically for the MMSS program.
- Software Requirements Specification.
- Software Test Plan, to be submitted no later than 60 days prior to the Ship Readiness Review (SRR).
- Software Test Results Report
- System Requirements Specification.
- Hardware Test Plan, to be submitted no later than 60 days prior to the Ship Readiness Review (SRR).
- Hardware Test Results Report
- Software User's Manual
- System Operator's Manual
- As-Built Data Package
- Final Report

Table 3 shows the Contract Data Requirements List (CDRL) of data items that are to be delivered to the government. All submittals will be delivered in electronic formats agreed upon by both the government and the Raytheon team.

A001	Cost/Schedule Status Report
A002	Presentation Material
A003	Scientific and Technical Reports
A004	Software Development Plan
A005	Software Requirements Specification
A006	Software Test Plan
A007	Software Test Report
A008	System Requirements Specification
A009	Hardware Test Plan
A00A	Test Report
A00B	Software User's Manual
A00C	System Operator's Manual
A00D	As-Built Data Package
A00E	Final Report
A00F	Computer Software Product End Items
MMSS-3	

Table 3 – Contract Data Requirements List. Data items to be delivered by Raytheon to the Government.

6.0 Software

Software to be delivered under the MMSS program effort includes all software necessary for the complete operation of the MMSS system during a demonstration tower test or demonstration flight test, including source code. Computer Software Product End Items shall be delivered to the government as data item A00F (see table 5.0.1)

b(4)

7.0 Hardware

Hardware to be delivered under the MMSS program effort includes the complete MMSS subsystem suitable for integration with the government-developed Automatic Target Recognition (ATR) subsystem and with the test-bed helicopter. The hardware delivery includes the MMSS integrated into a flight-test-ready turret, along with any test and or alignment fixtures required for optimal tuning of the sensor system, as well as any off-turret component parts of the MMSS required for operation in a demonstration tower test or demonstration flight test.

CLAUSES INCORPORATED BY FULL TEXT

5252.211-9509 INCORPORATION OF THE CONTRACTOR'S TECHNICAL PROPOSAL (NAVAIR)(OCT 2005)

The Contractor's Technical Proposal Number () dated 4 October 2007, and any amendments/addendums thereof, is incorporated herein by reference, unless otherwise specified, with the same force and effect as if set forth in full text. Nothing in the Contractor's proposal shall constitute a waiver of any of the provisions of the contract, including the Statement(s) of Work and Specification. For purposes of FAR Clause 52.215-8, "Order of Precedence", the Contractor's technical proposal shall be considered a "Specification."

Section D - Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

5252.247-9507 PACKAGING AND MARKING OF REPORTS (NAVAIR) (OCT 2005)

(a) All unclassified data shall be prepared for shipment in accordance with best commercial practice. Classified reports, data and documentation, if any, shall be prepared for shipment in accordance with the National Industry Security Program Operating Manual, DoD 5220.22-M.

(b) The contractor shall prominently display on the cover of each report the following information:

- (1) Name and business address of contractor.
- (2) Contract Number/Delivery/Task order number.
- (3) Contract/Delivery/Task order dollar amount.
- (4) Whether the contract was competitively or non-competitively awarded.
- (5) Name of sponsoring individual.
- (6) Name and address of requiring activity.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE

52.246-8	Inspection Of Research And Development Cost Reimbursement	MAY 2001
----------	---	----------

b(6)

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN DELIVERY DATE

0001 Period of Performance: 25 March 2008 to 30 September 2012

CLAUSES INCORPORATED BY REFERENCE

52.242-15 Alt I	Stop-Work Order (Aug 1989) - Alternate I	APR 1984
52.247-34	F.O.B. Destination	NOV 1991

CLAUSES INCORPORATED BY FULL TEXT

5252.247-9505 TECHNICAL DATA AND INFORMATION (NAVAIR) (FEB 1995)

Technical Data and Information shall be delivered in accordance with the requirements of the Contract Data Requirements List, DD Form 1423, Exhibit A, attached hereto, and the following:

(a) The contractor shall concurrently deliver technical data and information per DD Form 1423, Blocks 12 and 13 (date of first/subsequent submission) to all activities listed in Block 14 of the DD Form 1423 (distribution and addresses) for each item. Complete addresses for the abbreviations in Block 14 are shown in paragraph (g) below. Additionally, the technical data shall be delivered to the following cognizant codes, who are listed in Block 6 of the DD Form 1423.

(b) Partial delivery of data is not acceptable unless specifically authorized on the DD Form 1423, or unless approved in writing by the PCO.

(c) The Government review period provided on the DD Form 1423 for each item commences upon receipt of all required data by the technical activity designated in Block 6.

(d) A copy of all other correspondence addressed to the Contracting Officer relating to data item requirements (i.e., status of delivery) shall also be provided to the codes reflected above and the technical activity responsible for the data item per Block 6, if not one of the activities listed above.

(e) The PCO reserves the right to issue unilateral modifications to change the destination codes and addresses for all technical data and information at no additional cost to the Government.

(f) Unless otherwise specified in writing, rejected data items shall be resubmitted within thirty (30) days after receipt of notice of rejection.

(g) DD Form 1423, Block 14 Mailing Addresses:

(1) Code 452300D:

Commander
NAWCWD (Code 452300D)
Attn: ()
300 North Knox Road, Mail Stop 6208
China Lake, CA 93555-6108

(2) Code 210000D:

Commander
NAWCWD (Code 210000D)
Attn: Diane Foucher
429 E. Bowen Road, Mail Stop 4015
China Lake, CA 93555-6108

F-TXT-04 DELIVERY OF DATA (MAR 2003)

Data shall be delivered per the schedules and to the destinations listed in the Contract Data Requirements List, DD Form 1423, Exhibit A.

F-TXT-07 PLACE OF PERFORMANCE- RESEARCH AND DEVELOPMENT (MAR 2003)

The research or research and development work under this contract shall be performed in the United States. "United States" means the fifty states, the Territories and possessions of the United States, the Commonwealth of Puerto Rico, the Commonwealth of the northern Mariana Islands, the Trust Territory of the Pacific Islands, and the District of Columbia.

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 255 77777 0 050120 2F 000000
COST CODE: WC028PR00727
AMOUNT: \$2,400,000.00
CIN 130010071800001: \$1,250,000.00
CIN 130010071800002: \$750,000.00
CIN 130010071800003: \$400,000.00

CLAUSES INCORPORATED BY FULL TEXT

5252.201-9502 CONTRACTOR'S AUTHORIZED CONTRACT COORDINATOR AND TECHNICAL LIAISON (NAVAIR)(OCT 2005)

(a) The contractor shall state below the name and telephone numbers of the contractor's employees responsible for coordination of contract functions/liaison with the Contracting Officer and/or Contract administrator, and providing technical assistance as required regarding product specifications, functionality, etc.

CONTRACT COORDINATOR:

NAME: Mark Holm
PHONE (BUS): 520-545-9427

ALTERNATE:

NAME: Thomas E. Roberts (Technical Point of Contact)
PHONE (BUS): 520-545-9556

(b) The contractor shall notify the Contracting Officer and/or Contract Administrator in advance, in writing, of any changes in the above listed personnel.

5252.204-9503 EXPEDITING CONTRACT CLOSEOUT (NAVAIR) (JAN 2007)

(a) As part of the negotiated fixed price or total estimated amount of this contract, both the Government and the Contractor have agreed to waive any entitlement that otherwise might accrue to either party in any residual dollar amount of \$1,000 or less at the time of final contract closeout. The term "residual dollar amount" shall include all money that would otherwise be owed to either party at the end of the contract, except that, amounts connected in any way with taxation, allegations of fraud and/or antitrust violations shall be excluded. For purposes of determining residual dollar amounts, offsets of money owed by one party against money that would otherwise be paid by that party might be considered to the extent permitted by law.

(b) This agreement to waive entitlement to residual dollar amounts has been considered by both parties. It is agreed that the administrative costs for either party associated with collecting such small dollar amounts could exceed the amount to be recovered.

5252.232-9504 SPECIAL PAY INSTRUCTIONS FOR PAYING OFFICE (NAVAIR) (MAY 2006)

(a) Invoices submitted for payment, which do not contain contract line item number (CLIN) (or subline item number (SLIN), if any) and the accounting classification references number (ACRN) information, will be returned for correction.

b(6)

- (b) The disbursement of funds will be by the CLIN/SLIN/ACRN designation.
- (c) If progress payments are authorized, payments will be made against the unliquidated balance of all applicable CLINs/SLINs.

5252.232-9513 INVOICING AND PAYMENT (WAWF) INSTRUCTIONS (DEC 2007)

(a) Invoices for goods received or services rendered under this contract shall be submitted electronically through Wide Area Work Flow -- Receipt and Acceptance (WAWF):

(1) The vendor shall have their cage code activated by calling 866-618-5988. Once activated, the vendor shall self-register at the web site <https://wawf.eb.mil>. Vendor training is available on the Internet at <http://www.wawftraining.com>. Additional support can be obtained by calling the NAVY WAWF Assistance Line: 1-800-559-WAWF (9293).

(2) WAWF Vendor "Quick Reference" Guides are located at the following web site: <http://www.acquisition.navy.mil/navyaos/content/view/full/3521>.

(3) Select the invoice type within WAWF as specified below. Back up documentation (such as timesheets, etc.) can be included and attached to the invoice in WAWF. Attachments created in any Microsoft Office product are attachable to the invoice in WAWF. Total limit for the size of files per invoice is 5 megabytes.

(b) The following information, regarding invoice routing DODAAC's, must be entered for completion of the invoice in WAWF:

WAWF Invoice Type:	<p>If the Paying Office (see below) is N50120:</p> <ul style="list-style-type: none"> -- Select Combo for Fixed Price Supplies and Services. -- Select Cost Voucher for all Cost or T&M contracts or CLINs. <p>For ALL OTHER Paying Offices:</p> <ul style="list-style-type: none"> -- Select 2-in-1 for FFP Services Only. -- Select Combo for Supplies, or Supplies AND FFP Services. -- Select Cost Voucher for all Cost or T&M contracts or CLINs. <p>If none of the above apply, please call 1-800-559-WAWF (9293).</p>
Issuing Office DODAAC	N68936
Admin Office DODAAC:	S0305A
Inspector DODAAC (usually only used when Inspector & Acceptor are different people):	
Ship To DODAAC (for Combo), Service Acceptor DODAAC (for 2 in 1), Service Approver DODAAC (Cost Voucher)	N68936
DCAA Office DODAAC (Used on Cost Voucher's only):	HAA138
Paying Office DODAAC:	N50120

(c) Contractors approved by DCAA for direct billing will not process vouchers through DCAA, but may submit directly to DFAS. Final voucher submission will be approved by the ACO.

(d) For each invoice / cost voucher submitted for payment, the contractor shall also email the WAWF automated invoice notice directly to the following points of contact:

Name	Email	Phone	Role
Emily Smith	Emily.Wood@navy.mil	760-939-3974	Contract Specialist
()	()@navy.mil	760-939-()	Technical Point of Contact

**5252.232-9516 ALLOTMENT OF FUNDS - INCREMENTALLY FUNDED COST-REIMBURSEMENT
CONTRACT OTHER THAN COST-SHARING CONTRACT (JUL 1985)**

For the purposes of paragraph (b) of the "Limitation of Funds" clause of this contract-

- (a) the amount available for payment and allotted to this incrementally funded contract is \$2,400,000;
- (b) the items covered by such amount are Item(s) 000101, 000102, 000103; and
- (c) the period of performance for which it is estimated the allotted amount will cover is award through September 30, 2008.

5252.242-9511 CONTRACT ADMINISTRATION DATA (NAVAIR)(MAR 2007)

(a) Contract Administration Office.

(1) Contract administration functions (see FAR 42.302 and DFARS 242.302) are assigned to:

See the ADMINISTERED BY Block on the face page of the contract or modification.

(2) Contract administration functions withheld, additional contract administration functions assigned, or special instructions (see FAR 42.202) are: none or as delineated by Procuring Contracting Officer (PCO) correspondence.

(b) Inquiries regarding payment should be referred to: MyInvoice at

<http://www.dod.mil/dfas/contractorpay/myinvoice.html>.

Section H - Special Contract Requirements

CLAUSES INCORPORATED BY REFERENCE

252.204-7000 Disclosure Of Information

DEC 1991

CLAUSES INCORPORATED BY FULL TEXT

5252.210-9501 AVAILABILITY OF UNIQUE DATA ITEM DESCRIPTIONS (UDIDs) AND DATA ITEM DESCRIPTIONS (DIDs) (NAVAIR) (OCT 2005)

Access Procedures for Acquisition Management System and Data Requirements Control List (AMSDL), DoD 5010.12-L, and DIDs listed therein. The AMSDL and all DIDs and UDIDs listed therein are available online via the Acquisition Streamlining and Standardization Information System located at <http://assist.daps.dla.mil>. To access these documents, select the Quick Search link on the site home page.

5252.227-9501 INVENTION DISCLOSURES AND REPORTS (NAVAIR) (MAY 1998)

(a) In accordance with the requirements of the Patent Rights clause of this contract, the contractor shall submit "Report of Inventions and Subcontracts" (DD Form 882) along with written disclosure of inventions to the designated Contract Administrator.

(b) The Contract Administrator will forward such reports and disclosures directly to the appropriate Patent Counsel, designated below, for review and recommendations, after which the reports will be returned to the Contract Administrator.

Name and address of Patent Counsel:

Office of Counsel, Code K00000D
Naval Air Warfare Center Weapons Division
1 Administration Circle, Stop 1009
China Lake, California 93555-6100

(c) The above designated Patent Counsel will represent the Procurement Contracting Officer with regard to invention reporting matters arising under this contract.

(d) A copy of each report and disclosure shall be forwarded to the Procuring Contracting Officer.

(e) The contractor shall furnish the Contracting Officer a final report within three (3) months after completion of the contracted work listing all subject inventions or certifying that there were no such inventions, and listing all subcontracts at any tier containing a patent rights clause or certifying that there were no such subcontracts.

5252.227-9507 NOTICE REGARDING THE DISSEMINATION OF EXPORT-CONTROLLED TECHNICAL DATA (NAVAIR) (OCT 2005)

(a) Export of information contained herein, which includes release to foreign nationals within the United States, without first obtaining approval or license from the Department of State for items controlled by the International Traffic in Arms Regulations (ITARs), or the Department of Commerce for items controlled by the Export Administration Regulations (EAR), may constitute a violation of law.

(b) For violation of export laws, the contractor, its employees, officials or agents are subject to:

- (1) Imprisonment and/or imposition of criminal fines; and
- (2) Suspension or debarment from future Government contracting actions.

(c) The Government shall not be liable for any unauthorized use or release of export-controlled information, technical data or specifications in this contract.

(d) The contractor shall include the provisions or paragraphs (a) through (c) above in any subcontracts awarded under this contract.

**5252.232-9509 REIMBURSEMENT OF TRAVEL, PER DIEM, AND SPECIAL MATERIAL COSTS
(NAVAIR)(OCT 2006)**

(a) Area of Travel. Performance under this contract may require travel by contractor personnel. If travel, domestic or overseas, is required, the contractor is responsible for making all necessary arrangements for its personnel. These include but are not limited to: medical examinations, immunizations, passports/visas/etc., and security clearances. All contractor personnel required to perform work on any U.S. Navy vessel shall obtain boarding authorization from the Commanding Officer of the vessel before boarding.

(b) Travel Policy. The Government will reimburse the contractor for allowable travel costs incurred by the contractor in performance of the contract in accordance with FAR Subpart 31.2. Travel required for tasks assigned under this contract shall be governed in accordance with: Federal Travel Regulations, prescribed by the General Services Administration for travel in the conterminous 48 United States, (hereinafter the FTR); Joint Travel Regulation, Volume 2, DoD Civilian Personnel, Appendix A, prescribed by the Department of Defense, for travel in Alaska, Hawaii, The Commonwealth of Puerto Rico, and territories and possessions of the United States (hereinafter JTR); and Standardized Regulations (Government Civilians, Foreign Areas), Section 925, "Maximum Travel Per Diem Allowances for Foreign Areas," prescribed by the Department of State, for travel in areas not covered in the FTR or JTR (hereinafter the SR).

(c) Travel. Travel and subsistence are authorized for travel beyond a fifty-mile radius of the contractor's office whenever a task assignment requires work to be accomplished at a temporary alternate worksite. No travel or subsistence shall be charged for work performed within a fifty-mile radius of the contractor's office. The contractor shall not be paid for travel or subsistence for contractor personnel who reside in the metropolitan area in which the tasks are being performed. Travel performed for personal convenience, in conjunction with personal recreation, or daily travel to and from work at the contractor's facility will not be reimbursed.

(1) For travel costs other than described in paragraph (c) above, the contractor shall be paid on the basis of actual amount paid to the extent that such travel is necessary for the performance of services under the contract and is authorized by the COR in writing.

(2) When transportation by privately owned conveyance is authorized, the contractor shall be paid on a mileage basis not to exceed the applicable Government transportation rate as contained in the FTR, JTR or SR. Authorization for the use of privately owned conveyance shall be indicated in the basic contract. Distances traveled between points shall be shown on invoices as listed in standard highway mileage guides. Reimbursement will not exceed the mileage shown in the standard highway mileage guides.

(3) The contractor agrees, in the performance of necessary travel, to use the lowest cost mode commensurate with the requirements of the mission as set forth in the basic contract and in accordance with good traffic management principles. When it is necessary to use air or rail travel, the contractor agrees to use coach, tourist class, or similar accommodations to the extent consistent with the successful and economical accomplishment of the mission for which the travel is being performed.

(4) The contractor's invoices shall include receipts or other evidence substantiating actual costs incurred for authorized travel. In no event will such payments exceed the rates of common carriers.

(d) Vehicle and/or Truck Rentals. The contractor shall be reimbursed for actual rental/lease of special vehicles and/or trucks (i.e., of a type not normally used by the contractor in the conduct of its business) only if authorized in the basic contract or upon approval by the COR. Reimbursement of such rental shall be made based on actual amounts paid by the contractor. Use of rental/lease costs of vehicles and/or trucks that are of a type normally used by the contractor in the conduct of its business are not subject to reimbursement.

(e) Car Rental. The contractor shall be reimbursed for car rental, exclusive of mileage charges, as authorized in the basic contract or upon approval by the COR, when the services are required to be performed beyond the normal commuting distance from the contractor's facilities. Car rental for a team on TDY at one site will be allowed for a minimum of four (4) persons per car, provided that such number or greater comprise the TDY team.

(f) Per Diem. The contractor shall not be paid for per diem for contractor personnel who reside in the metropolitan areas in which the tasks are being performed. Per Diem shall not be paid on services performed within

a fifty-mile radius of the contractor's home office or the contractor's local office. Per Diem is authorized for contractor personnel beyond a fifty-mile radius of the contractor's home or local offices whenever a task assigned requires work to be done at a temporary alternate worksite. Per Diem shall be paid to the contractor only to the extent that overnight stay is necessary and authorized under this contract. The authorized per diem rate shall be the same as the prevailing per diem in the worksite locality. These rates will be based on rates contained in the FTR, JTR or SR. The applicable rate is authorized at a flat seventy-five (75%) percent on the day of departure from contractor's home or local office, and on the day of return. Reimbursement to the contractor for per diem shall be limited to actual payments to per diem defined herein. The contractor shall provide actual payments of per diem defined herein. The contractor shall provide supporting documentation for per diem expenses as evidence of actual payment.

(g) Shipboard Stays. Whenever work assignments require temporary duty aboard a Government ship, the contractor will be reimbursed at the per diem rates identified in paragraph C8101.2C or C81181.3B(6) of the Department of Defense Joint Travel Regulations, Volume II.

(h) Special Material. "Special material" includes only the costs of material, supplies, or services which is peculiar to the ordered data and which is not suitable for use in the course of the contractor's normal business. It shall be furnished pursuant to specific authorization approved by the COR. The contractor will be required to support all material costs claimed by its costs less any applicable discounts. "Special materials" include, but are not limited to, graphic reproduction expenses, or technical illustrative or design requirements needing special processing.

5252.243-9504 AUTHORIZED CHANGES ONLY BY THE CONTRACTING OFFICER (NAVAIR) (JAN 1992)

(a) Except as specified in paragraph (b) below, no order, statement, or conduct of Government personnel who visit the contractor's facilities or in any other manner communicates with contractor personnel during the performance of this contract shall constitute a change under the "Changes" clause of this contract.

(b) The contractor shall not comply with any order, direction or request of Government personnel unless it is issued in writing and signed by the Contracting Officer, or is pursuant to specific authority otherwise included as a part of this contract.

(c) The Contracting Officer is the only person authorized to approve changes in any of the requirements of this contract and notwithstanding provisions contained elsewhere in this contract, the said authority remains solely the Contracting Officer's. In the event the contractor effects any change at the direction of any person other than the Contracting Officer, the change will be considered to have been made without authority and no adjustment will be made in the contract price to cover any increase in charges incurred as a result thereof. The address and telephone number of the Contracting Officer is:

Diane Foucher

Commander

NAWCWD (Code 254100D)

Attn: Diane Foucher

429 E. Bowen Road, Mail Stop 4015

China Lake, CA 93555-6108

SUBCONTRACING PLAN INCORP

In accordance with FAR 52.219-9, Raytheon's Comprehensive Subcontracting Plan approved on 27 September 2007 is hereby incorporated by reference.

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	SEP 2007
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	JUL 2006
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
52.211-5	Material Requirements	AUG 2000
52.211-15	Defense Priority And Allocation Requirements	SEP 1990
52.215-2	Audit and Records--Negotiation	JUN 1999
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-14	Integrity of Unit Prices	OCT 1997
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-16	Facilities Capital Cost of Money	JUN 2003
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	JUL 2005
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data--Modifications	OCT 1997
52.216-7	Allowable Cost And Payment	DEC 2002
52.216-11	Cost Contract--No Fee	APR 1984
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.219-9	Small Business Subcontracting Plan	NOV 2007
52.219-16	Liquidated Damages-Subcontracting Plan	JAN 1999
52.222-3	Convict Labor	JUN 2003
52.222-19	Child Labor -- Cooperation with Authorities and Remedies	AUG 2007
52.222-20	Walsh-Healey Public Contracts Act	DEC 1996
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-39	Notification of Employee Rights Concerning Payment of Union Dues or Fees	DEC 2004
52.222-50	Combating Trafficking in Persons	AUG 2007
52.222-53	Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements	NOV 2007

52.223-6	Drug-Free Workplace	MAY 2001
52.223-11	Ozone-Depleting Substances	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-13	Restrictions on Certain Foreign Purchases	FEB 2006
52.226-1	Utilization Of Indian Organizations And Indian-Owned Economic Enterprises	JUN 2000
52.227-1 Alt I	Authorization And Consent (Dec 2007) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.228-7	Insurance--Liability To Third Persons	MAR 1996
52.230-2	Cost Accounting Standards	APR 1998
52.230-6	Administration of Cost Accounting Standards	APR 2005
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	JUN 1996
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-25	Prompt Payment	OCT 2003
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.233-1	Disputes	JUL 2002
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.242-15 Alt I	Stop-Work Order (Aug 1989) - Alternate I	APR 1984
52.243-2 Alt V	Changes--Cost-Reimbursement (Aug 1987) - Alternate V	APR 1984
52.243-6	Change Order Accounting	APR 1984
52.243-7	Notification Of Changes	APR 1984
52.244-2	Subcontracts	JUN 2007
52.244-5	Competition In Subcontracting	DEC 1996
52.244-6	Subcontracts for Commercial Items	MAR 2007
52.245-1	Government Property	JUN 2007
52.245-9	Use And Charges	JUN 2007
52.246-24	Limitation Of Liability--High-Value Items	FEB 1997
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2004
252.203-7002	Display Of DOD Hotline Poster	DEC 1991
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.211-7003	Item Identification and Valuation	JUN 2005
252.211-7007	Item Unique Identification of Government Property	SEP 2007
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	DEC 2006
252.219-7004	Small Business Subcontracting Plan (Test Program)	APR 2007

252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7001	Buy American Act And Balance Of Payments Program	JUN 2005
252.225-7002	Qualifying Country Sources As Subcontractors	APR 2003
252.225-7004	Report of Contract Performance Outside the United States and Canada--Submission after Award	MAY 2007
252.225-7006	Quarterly Reporting of Actual Contract Performance Outside the United States	MAY 2007
252.225-7012	Preference For Certain Domestic Commodities	JAN 2007
252.225-7014 Alt I	Preference For Domestic Specialty Metals (Jun 2005) - Alternate I	OCT 2007
252.225-7031	Secondary Arab Boycott Of Israel	JUN 2005
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	SEP 2004
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.227-7038	Patent Rights--Ownership by the Contractor (Large Business)	DEC 2007
252.227-7039	Patents--Reporting Of Subject Inventions	APR 1990
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests	MAR 2007
252.232-7010	Levies on Contract Payments	DEC 2006
252.235-7011	Final Scientific or Technical Report	NOV 2004
252.242-7004	Material Management And Accounting System	NOV 2005
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	JAN 2007
252.247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

CLAUSES INCORPORATED BY FULL TEXT

52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall--

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

(c) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

52.219-4 NOTICE OF PRICE EVALUATION FOR HUBZONE SMALL BUSINESS CONCERNS (JUL 2005)

(a) Definition. HUBZone small business concern, as used in this clause, means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

(b) Evaluation preference.

(1) Offers will be evaluated by adding a factor of 10 percent to the price of all offers, except-

- (i) Offers from HUBZone small business concerns that have not waived the evaluation preference; and
- (ii) Otherwise successful offers from small business concerns.

(2) The factor of 10 percent shall be applied on a line item basis or to any group of items on which award may be made. Other evaluation factors described in the solicitation shall be applied before application of the factor.

(3) A concern that is both a HUBZone small business concern and a small disadvantaged business concern will receive the benefit of both the HUBZone small business price evaluation preference and the small disadvantaged business price evaluation adjustment (see FAR clause 52.219-23). Each applicable price evaluation preference or adjustment shall be calculated independently against an offeror's base offer. These individual preference amounts shall be added together to arrive at the total evaluated price for that offer.

(c) Waiver of evaluation preference. A HUBZone small business concern may elect to waive the evaluation preference, in which case the factor will be added to its offer for evaluation purposes. The agreements in paragraph (d) of this clause do not apply if the offeror has waived the evaluation preference.

[] Offer elects to waive the evaluation preference.

(d) Agreement. A HUBZone small business concern agrees that in the performance of the contract, in the case of a contract for

(1) Services (except construction), at least 50 percent of the cost of personnel for contract performance will be spent for employees of the concern or employees of other HUBZone small business concerns;

(2) Supplies (other than procurement from a nonmanufacturer of such supplies), at least 50 percent of the cost of manufacturing, excluding the cost of materials, will be performed by the concern or other HUBZone small business concerns;

(3) General construction, at least 15 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns; or

(4) Construction by special trade contractors, at least 25 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns.

(e) A HUBZone joint venture agrees that in the performance of the contract, the applicable percentage specified in paragraph (d) of this clause will be performed by the HUBZone small business participant or participants;

(f) A HUBZone small business concern nonmanufacturer agrees to furnish in performing this contract only end items manufactured or produced by HUBZone small business manufacturer concerns. This paragraph does not apply in connection with construction or service contracts.

52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (JUN 2007)

(a) Definitions. As used in this clause--

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (c) of this clause.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts--

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the exercise date specified in the contract for any option thereafter.

(c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/services/contractingopportunities/sizestandardsttopics/>

(d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.

(e) Except as provided in paragraph (g) of this clause, the Contractor shall make the rerepresentation required by paragraph (b) of this clause by validating or updating all its representations in the Online Representations and Certifications Application and its data in the Central Contractor Registration, as necessary, to ensure they reflect current status. The Contractor shall notify the contracting office by e-mail, or otherwise in writing, that the data have been validated or updated, and provide the date of the validation or update.

(f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.

(g) If the Contractor does not have representations and certifications in ORCA, or does not have a representation in ORCA for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it [] is, [] is not a small business concern under NAICS Code [] assigned to contract number [].

[Contractor to sign and date and insert authorized signer's name and title].

Signature

Date

Signer's Printed Name

Signer's Title

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0.00 or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

- (4) That will result in lower overall costs to the Government.
- (b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--
- (1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;
 - (2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;
 - (3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and
 - (4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.arnet.gov/far> or <http://farsite.hill.af.mil>.

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

- (a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
- (b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

252.204-7006 BILLING INSTRUCTIONS (OCT 2005)

When submitting a request for payment, the Contractor shall--

- (a) Identify the contract line item(s) on the payment request that reasonably reflect contract work performance; and
- (b) Separately identify a payment amount for each contract line item included in the payment request.

252.223-7004 DRUG-FREE WORK FORCE (SEP 1988)

(a) Definitions.

- (1) "Employee in a sensitive position," as used in this clause, means an employee who has been granted access to classified information; or employees in other positions that the Contractor determines involve national security; health or safety, or functions other than the foregoing requiring a high degree of trust and confidence.
 - (2) "Illegal drugs," as used in this clause, means controlled substances included in Schedules I and II, as defined by section 802(6) of title 21 of the United States Code, the possession of which is unlawful under chapter 13 of that Title. The term "illegal drugs" does not mean the use of a controlled substance pursuant to a valid prescription or other uses authorized by law.
- (b) The Contractor agrees to institute and maintain a program for achieving the objective of a drug-free work force. While this clause defines criteria for such a program, contractors are encouraged to implement alternative approaches comparable to the criteria in paragraph (c) that are designed to achieve the objectives of this clause.
- (c) Contractor programs shall include the following, or appropriate alternatives:

b(6)

- (1) Employee assistance programs emphasizing high level direction, education, counseling, rehabilitation, and coordination with available community resources;
- (2) Supervisory training to assist in identifying and addressing illegal drug use by Contractor employees;
- (3) Provision for self-referrals as well as supervisory referrals to treatment with maximum respect for individual confidentiality consistent with safety and security issues;
- (4) Provision for identifying illegal drug users, including testing on a controlled and carefully monitored basis. Employee drug testing programs shall be established taking account of the following:
 - (i) The Contractor shall establish a program that provides for testing for the use of illegal drugs by employees in sensitive positions. The extent of and criteria for such testing shall be determined by the Contractor based on considerations that include the nature of the work being performed under the contract, the employee's duties, and efficient use of Contractor resources, and the risks to health, safety, or national security that could result from the failure of an employee adequately to discharge his or her position.
 - (ii) In addition, the Contractor may establish a program for employee drug testing--
 - (A) When there is a reasonable suspicion that an employee uses illegal drugs; or
 - (B) When an employees has been involved in an accident or unsafe practice;
 - (C) As part of or as a follow-up to counseling or rehabilitation for illegal drug use;
 - (D) As part of a voluntary employee drug testing program.
 - (iii) The Contractor may establish a program to test applicants for employment for illegal drug use.
 - (iv) For the purpose of administering this clause, testing for illegal drugs may be limited to those substances for which testing is prescribed by section 2.1 of subpart B of the "Mandatory Guidelines for Federal Workplace Drug Testing Programs" (53 FR 11980 (April 11, 1988), issued by the Department of Health and Human Services.
- (d) Contractors shall adopt appropriate personnel procedures to deal with employees who are found to be using drugs illegally. Contractors shall not allow any employee to remain on duty or perform in a sensitive position who is found to use illegal drugs until such times as the Contractor, in accordance with procedures established by the Contractor, determines that the employee may perform in such a position.
- (e) The provisions of this clause pertaining to drug testing program shall not apply to the extent that are inconsistent with state or local law, or with an existing collective bargaining agreement; provided that with respect to the latter, the Contractor agrees those issues that are in conflict will be a subject of negotiation at the next collective bargaining session.

5252.201-9500 GOVERNMENT POINTS OF CONTACT (NAVAIR)(OCT 2005)

(a) The TPOC for this contract is

{
 760-939-()
 ()}@navy.mil

Commander
 NAWCWD (Code 452300D)
 Attn: ()
 1900 North Knox Road, Mail Stop 6208
 China Lake, CA 93555-6108

- (b) The TPOC will provide technical direction and discussion, as relating, but not limited to the specification and/or statement of work, and will monitor the progress and quality of contractor performance.
- (c) The TPOC is not an Administrative Contracting Officer and does not have authority to take any action, either directly or indirectly, that would change the pricing, quantity, quality, place of performance, delivery schedule, or any other terms and conditions of the contract (or delivery/task order), or to direct the accomplishment of effort which goes beyond the scope of the statement of work in the contract (or delivery/task order). When, in the opinion of the contractor, the TPOC requests any of the aforementioned changes, the contractor shall promptly notify the Contracting Officer (or ordering officer, for delivery/task orders) in writing. If the contractor believes or interprets

any action by the TPOC to be a change to the contract, the contractor will promptly notify the Contracting Officer in writing. Any failure by the contractor to notify the Contracting Officer in writing of any changes is an admission that the contractor is working at its own risk on a voluntary basis. No action shall be taken by the contractor under such direction until the Contracting Officer (or ordering officer) has issued a modification to the contract (or delivery/task order) concerning the subject change(s) or has otherwise resolved the issue.

5252.204-9504 DISCLOSURE OF CONTRACT INFORMATION (JAN 2007)

(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information (e.g., announcement of contract award), regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless the Contracting Officer has given prior written approval.

(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least ten (10) days before the proposed date for release.

(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Section J - List of Documents, Exhibits and Other Attachments

EXHIBIT/ATTACHMENT TABLE OF CONTENTS

DOCUMENT TYPE	DESCRIPTION
Exhibit A	Contract Data Requirements List (CDRLs)
Attachment 1	DoD Security Classification Specification DD254
Attachment 2	Rights in Technical Data - Assertion List

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>					Form Approved OMB No. 0704-0188							
Public reporting burden for this collection of information is estimated to average 110 hours 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 Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Printing Contracting Officer for Contract PPI No. listed in Block E.												
A. CONTRACT LINE ITEM NO.		B. EXHIBIT	C. CATEGORY: TDP TM OTHER: MGMT									
D. SYSTEM/ITEM Multi-Mode Sensor Suite (MMSS)			E. CONTRACT/PR NO. N68936-08-C-0034		F. CONTRACTOR Raytheon							
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM STATUS REPORT				3. SUBTITLE Status Report							
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80368A			5. CONTRACT REFERENCE SOW 4.2.1, 4.4, 4.4.1		6. REQUIRING OFFICE NAVAIRWD CODE 452300D							
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE BLK	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 45 DAC		14. DISTRIBUTION							
8. APP CODE N/A	16 D	11. AS OF DATE EOM	13. DATE OF SUBSEQUENT SUBMISSION EOM+15		a. ADDRESSEE	Draft	b. COPIES					
				Final			Reg	Repro				
<p>Block 16 Remarks</p> <p>Block 4: May be in contractor format. Use DID for guidance.</p> <p>Block 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only; Critical Technology; 03 March 2008. Other requests shall be referred to NAVAIR Weapons Division, Code 452300D, Attn: T.D. Cook, 1900 N. Knox Road, Stop 6208, China Lake, CA 93555-6106.</p> <p>Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to first submittal.</p>					Code 452300D	0	1	0				
					Code 210000D		LTR	ONLY				
					15. TOTAL					0	1	0
G. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 93555-6100			H. DATE 080303	I. APPROVED BY DRRB Chairperson		J. DATE						

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours 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 Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for Contract/PR No. listed in Block E.									
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP TM OTHER: MGMT					
D. SYSTEM/ITEM Multi-Mode Sensor Suite (MMSS)			E. CONTRACT/PR NO. N68936-08-C-0034		F. CONTRACTOR Raytheon				
1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES				3. SUBTITLE N/A				
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B			5. CONTRACT REFERENCE SOW 4.2.2.2, 4.2.2.3, 4.4, 4.4.1		6. REQUIRING OFFICE NAVAIRWD CODE 452300D				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE BLK	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE A	D 16	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A		a. ADDRESSEE		b. COPIES		
							Draft	Final	
<p>Block 16 Remarks</p> <p>Block 4: May be in contractor format. Use DID for guidance.</p> <p>Block 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only; Critical Technology; 03 March 2008. Other requests shall be referred to NAVAIR Weapons Division, Code 452300D, Attn: T.D. Cook, 1900 N. Knox Rd. Stop 6208, China Lake, CA 93555-6106.</p> <p>Block 12: Initial submittal shall be delivered 15 days after completion of each study. Final shall be delivered 15 days after completion of review with Government comments incorporated.</p> <p>Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to first submittal.</p>									
					15. TOTAL	➔	0	2	0
G. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 93555-6100			H. DATE 080303	I. APPROVED BY DRRB Chairperson			J. DATE		

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours 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 Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for Contract/PR No. listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP TM OTHER: MGMT				
D. SYSTEM/ITEM Multi-Mode Sensor Suite (MMSS)			E. CONTRACT/PR NO. N68936-08-C-0034		F. CONTRACTOR Raytheon			
1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES			3. SUBTITLE Software Test Report				
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81440A			5. CONTRACT REFERENCE SOW 4.2.2.4, 4.4, 4.4.1		6. REQUIRING OFFICE NAVAIRWD CODE 452300D			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE BLK	10. FREQUENCY 1TIME	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A	15. TOTAL →		0 1 0		b. COPIES	
							a. ADDRESSEE	Draft
<p>Block 16 Remarks</p> <p>Block 4: May be in contractor format. Use DID for guidance.</p> <p>Block 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only; Critical Technology; 03 March 2008. Other requests shall be referred to NAVAIR Weapons Division, Code 452300D, Attn: T.D. Cook, 1900 N. Knox Road, Stop 6208, China Lake, CA 93555-6106.</p> <p>Block 12: Shall be delivered 15 days after completion of software tests.</p> <p>Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to first submittal.</p>					Code 452300D	0	1	0
					Code 210000D		LTR	ONLY
G. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 93555-6100					H. DATE 080303		I. APPROVED BY DRRB Chairperson	
					J. DATE			

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours 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 Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for Contract/PR No. listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP TM OTHER: MGMT				
D. SYSTEM/ITEM Multi-Mode Sensor Suite (MMSS)			E. CONTRACT/PR NO. N68936-08-C-0034		F. CONTRACTOR Raytheon			
1. DATA ITEM NO. A008	2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES			3. SUBTITLE System Requirements Specification				
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81431A			5. CONTRACT REFERENCE SOW 4.2.2.1, 4.4, 4.4.1		6. REQUIRING OFFICE NAVAIRWD CODE 452300D			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE BLK	10. FREQUENCY 1TIME	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A	15. TOTAL →		0	1	0	
								b. COPIES
Block 16 Remarks Block 4: May be in contractor format. Use DID for guidance. Block 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only; Critical Technology; 03 March 2008. Other requests shall be referred to NAVAIR Weapons Division, Code 452300D, Attn: T.D. Cook, 1900 N. Knox Road, Stop 6208, China Lake, CA 93555-6106. Block 12: Initial submittal shall be delivered 30 days after completion of study. Final shall be delivered 15 days after completion of review with Government comments incorporated. Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to first submittal.					Code 452300D	0	1	0
					Code 210000D		LTR	ONLY
G. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 93555-6100					H. DATE 080303		I. APPROVED BY DRRB Chairperson	J. DATE

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>					Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 110 hours 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 Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for Contract/PR No. listed in Block E.										
A. CONTRACT LINE ITEM NO.		B. EXHIBIT	C. CATEGORY: TDP TM OTHER: MGMT							
D. SYSTEM/ITEM Multi-Mode Sensor Suite (MMSS)		E. CONTRACT/PR NO. N68936-08-C-0034		F. CONTRACTOR Raytheon						
1. DATA ITEM NO. A00A	2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES			3. SUBTITLE Hardware Test Report						
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508A		5. CONTRACT REFERENCE SOW 4.2.2.4, 4.4, 4.4.1, 4.6		6. REQUIRING OFFICE NAVAIRWD CODE 452300D						
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE BLK	10. FREQUENCY 1TIME	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION						
8. APP CODE N/A	16 D	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A	a. ADDRESSEE						
Block 16 Remarks Block 4: May be in contractor format. Use DID for guidance. Block 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S DoD contractors only; Critical Technology; 03 March 2008. Other requests shall be referred to NAVAIR Weapons Division, Code 452300D, Attn: T.D. Cook, 1900 N. Knox Road, Stop 6208, China Lake, CA 93555-6106. Block 12: Shall be delivered 15 days after completion of hardware tests. Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to first submittal.				b. COPIES		Final				
				Code 452300D		0	1	0		
				Code 210000D			LTR	ONLY		
15. TOTAL →				0	1	0				
G. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 93555-6100		H. DATE 080303	I. APPROVED BY DRRB Chairperson		J. DATE					

b(4)

DATA RIGHTS

6.0 RIGHTS IN TECHNICAL DATA – NONCOMMERCIAL ITEMS (DFARS 252.227-7013) AND NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION (DFARS 252.227-7014)

Table 6.1 provides identification and assertion of use, release, or disclosure restrictions.

Table 6.1 – Rights in Technical Data

Microscanning Techniques of the TMA (Patent Pending)	Developed at private expense	Limited Rights	
Existing DSP Code	Developed at private expense	Limited Rights	
Existing FPGA Code	Developed at private expense	Limited Rights	
CEU Code	Developed at private expense	Limited Rights	
Operating Code	Developed at private expense	Limited Rights	
Existing Unmodified General Design, (drawings will be provided for the front cover, modifications for hollow slip ring and Coude path modifications only)	Developed at private expense	Limited Rights	
SVP (skillet video interface processor PCB) Circuit Design and Code; Modifications performed under this contract will be provided	Developed at private expense	Limited Rights	
RCC Code (DSP and FPGA) – R Camera Controller in SVP	Developed at private expense	Limited Rights	
EOCC1 Code (DSP and FPGA) – Visible Camera Controller 1 in SVP	Developed at private expense	Limited Rights	
EOCC2 Code (DSP and FPGA) – Visible Camera Controller 2 in SVP	Developed at private expense	Limited Rights	
EOCC3 Code (DSP and FPGA) – Visible Camera Controller 3 in SVP	Developed at private expense	Limited Rights	
Video Mux (DSP and FPGA Code) in SVP	Developed at private expense	Limited Rights	
1k DCA (including but not limited to ROI, FPA, dewar design, embedded code)	Developed at private expense	Limited Rights	
Hand Controller Mechanical Design	Developed at private expense	Limited Rights	
Hand Controller Software	Developed at private expense	Restricted Rights	
Digital Detail Enhance Code	Developed at private expense	Limited Rights	
Existing TMA Thermal Match Techniques	Developed at private expense	Limited Rights	
Existing General Control Software	Developed at private expense	Restricted Rights	
Existing General Techniques	Developed at private expense	Limited Rights	

b(4)

Existing Tracker Software	Supplied by a COTS vendor, FLIR Systems does not have rights to code	Commercial Software	
Laser Designator Embedded	Supplied by a COTS vendor, FLIR Systems does not have rights to code	Commercial Software	
Existing Geo Part	Supplied by a COTS vendor, FLIR Systems does not have rights to code	Commercial Software	
Component Embedded Software	Supplied by a COTS vendor, FLIR Systems does not have rights to code	Commercial Software	
Readout IC Design and Layout	Developed at private expense	Limited Rights	Raytheon Company
Readout IC Fabrication Processes	Developed at private expense	Limited Rights	Raytheon Company
Readout IC Test Methods	Developed at private expense	Limited Rights	Raytheon Company
Detector Readout IC Mating Process and Test	Developed at private expense	Limited Rights	Raytheon Company
Detector Package Design	Developed at private expense	Limited Rights	Raytheon Company
Detector Array Mask Design	Developed at private expense	Limited Rights	Raytheon Company
Detector Array Fabrication Process	Developed at private expense	Limited Rights	Raytheon Company
Measured Spectral Absorption and Gain Properties of Erbium-Doped Crystalline Hosts; resonantly pumped laser resonantly pumped laser architectures	Developed at private expense R&D Task NW U; work performed in CY 2001	Limited Rights	
Design and Specification of a Fiber-Laser pumped Er:YAG oscillator	Shared development between BAE Systems and Government; Task AUM; work performed in CY 2003	Government Purpose	
Q-Switched, High Energy Er:YAG Laser Design Parameters and Er:YAG Amplifier Designs	Shared development between BAE Systems and Government; work performed in CY 2004 - 2007	Government Purpose	