

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING DO-C9	PAGE OF PAGES 1 34		
2. CONTRACT (Proc. Inst. Ident.) NO. N68936-09-C-0003		3. EFFECTIVE DATE 01 Nov 2008		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. 1300115456			
5. ISSUED BY CDR NAWCWD CODE 2542000 ATTN: E. STRAND (760) 939-7309 429 E BOWEN RD - STOP 4015 CHINA LAKE CA 93555-6108		CODE N68936	6. ADMINISTERED BY (If other than Item 5) See Item 5		CODE		
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, state and zip code) SYSTEMS APPLICATION & TECHNOLOGIES, INC GEOFF DEZAVALA 1000 TOWN CENTER DR STE 110 OXNARD CA 93036-2647				8. DELIVERY [] FOB ORIGIN [X] OTHER (See below)			
				9. DISCOUNT FOR PROMPT PAYMENT			
				10. SUBMIT INVOICES 0 (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM	
CODE 0KE94		FACILITY CODE					
11. SHIP TO/MARK FOR See Schedule		CODE	12. PAYMENT WILL BE MADE BY NAVY ERP NAVAIR WD, CODE J260000 1 ADMIN CIRCLE MAIL STOP 1318 CHINA LAKE CA 93555-5000		CODE	N64141	
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: [] 10 U.S.C. 2304(c)() [] 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						\$11,233,628.91	
16. TABLE OF CONTENTS							
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE							
17. [X] 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. [] AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number N68936-08-R-0058			
19A. NAME AND TITLE OF SIGNER (Type or print)				20A. NAME OF CONTRACTING OFFICER MARY K. JACOBS / PROCURING CONTRACTING OFFICER TEL: (760) 939-6043 EMAIL: mary.jacobs@navy.mil			
19B. NAME OF CONTRACTOR		19C. DATE SIGNED		20B. UNITED STATES OF AMERICA <i>Mary Jacobs</i> BY _____ (Signature of Contracting Officer)		20C. DATE SIGNED 30-Oct-2008	
BY _____ (Signature of person authorized to sign)							

Section A - Solicitation/Contract Form

CLAUSES INCORPORATED BY FULL TEXT

FOR YOUR INFORMATION:

The following addresses and points of contact are provided:

Name: Erin Strand, Contract Specialist

Phone: (760) 939-7309

DSN: 437-7309

FAX: (760) 939-8329

Email address: erin.strand@navy.mil

U.S. Postal Service Mailing Address:

COMMANDER
CODE 220000D (E. STRAND -- 760-939-7309)
NAVAIRWARCENWPNDIV
429 E. BOWEN RD. MAIL STOP 4015
CHINA LAKE, CA 93555-6108

Direct Delivery Address (UPS, FedEx, etc):

COMMANDER
CODE 220000D (E. STRAND)
NAVAIRWARCENWPNDIV
BLDG 982, MAIL STOP 4015
CHINA LAKE, CA 93555-6108

Name: Mary Jacobs, Contracting Officer

Phone: (760) 939-6043

DSN: 437-6043

FAX: (760) 939-8329

Email address: mary.jacobs@navy.mil

U.S. Postal Service Mailing Address:

COMMANDER
CODE 220000D (M. JACOBS -- 760-939-6043)
NAVAIRWARCENWPNDIV
429 E. BOWEN RD. MAIL STOP 4015
CHINA LAKE, CA 93555-6108

Direct Delivery Address (UPS, FedEx, etc):

COMMANDER
CODE 220000D (M. JACOBS)
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		(b)(4)	Hours		\$11,233,628.91
	Ranges (Land & Sea) Support Services				
	CPAF				
	The Contractor shall provide the above services in accordance with the Performance Work Statement (PWS), Attachment (1).				
	FOB: Destination				
				ESTIMATED COST	(b)(4)
				BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	(b)(4)
				MAX AWARD FEE	(b)(4)
				TOTAL EST COST + FEE	\$11,233,628.91

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000101					\$0.00
	For Navy Accounting Purposes Only				
	CPAF				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: 1300115456				
	ACRN AA				
	CIN: 130011545600001				
					(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Technical Data CPAF The contractor shall provide technical data in accordance with the Contract Data Requirements List (CDRLs), DD Form 1423, Exhibit (A). FOB: Destination	1	Lot	NSP	NSP

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5252.232-9505 PAYMENT OF BASE FEE (COST-PLUS-AWARD-FEE, LEVEL OF EFFORT (IDIQ) CONTRACTS) (NAVAIR) (OCT 2005)

(a) The base fee for work performed under this contract is \$0, provided that approximately (not applicable) man-hours of effort (including subcontractor hours and hours performed by other divisions of the contractor) are so employed on such work by the contractor. If less than (not applicable) percent of the man-hours of said services are so employed for such work, the fee shall be equitably reduced to reflect the reduction of work in accordance with the clause entitled, "Level of Effort". The Government shall make payment, on account of the base fee, at the rate of (not applicable) per direct labor hour invoiced by the contractor under the contract clause entitled, "Allowable Cost and Payment", for the related period, subject to the withholding provisions of paragraph (b) of the clause at FAR Clause 52.216-8, "Fixed Fee". These withholding provisions apply to each individual task order. Any balance of base fee shall be paid the contractor, or any overpayment of base fee shall be paid by the contractor or otherwise credited to the Government, at the time of final payment.

(b) The cumulative base fee established in task orders issued hereunder shall not exceed the total base fee established in paragraph (a) above, unless the contract is modified in writing by the Contracting Officer.

(c) For the purpose of this clause, "subcontract hours" shall include only those hours incurred by the subcontractor for services where the terms of the subcontract require payment based on the number of hours used and the reporting of those hours to the prime contractor. Examples of "subcontract hours" that are included in this definition are hours used in labor hour, time and material, and level of effort (fixed-price or cost-reimbursement) type contracts.

(d) "Subcontractor" as used in this clause means any supplier, distributor, vendor, or firm that furnished services to or for a prime contractor or another subcontractor.

Payment of Award Fee (Cost Plus Award Fee Contract)

a. In addition to any base (fixed) fee set forth herein, the contractor may earn and be paid all or a portion of an award fee which shall not exceed the maximum award fee established in the following table. The amount of the award fee available shall be computed by the following formula:

$$\begin{array}{l} \text{divided by} \\ \text{equals} \end{array} \frac{\text{Award Fee Established for Each Contract Period}}{\text{Maximum Level of Effort for Each Contract Period (Labor Hours)}} = \text{Award Fee Available Per Direct Labor Hour}$$

Award Fee Table

	CLIN 0001
Award Fee	(b)(4)
Hours	(b)(4)
Award Fee Rate Per Hr.	(b)(4)

b. Only those specific subcontractors and subcontract hours proposed in the offeror's proposal will be considered for award fee.

Note: See Attachment (4), Award Fee Plan, for award fee categories, and formulas for award fee calculations.

c. Award fee will be paid on a quarterly (3 month) evaluation period. For each quarter the maximum award fee available will be calculated by multiplying the "Award Fee Per Hour" for the contract period by the total labor hours worked during the award fee evaluation period.

B-NSTD-04 MATERIALS AND SUPPLIES

(a) The contractor shall be reimbursed for the actual cost of materials purchased or materials withdrawn from the contractor's store or warehouse (other than general office supplies) for the performance of work pursuant to the requirements set forth in the _____ less any cash or quantity discount earned, plus mark-up for general and administrative expenses but without any mark-up for fee.

(b) Title to all property acquired in accordance with the paragraph above for the performance of work hereunder shall rest in the Government. Only materials and supplies directly required by _____ are included.

(c) The contractor shall not acquire any single item or system valued at the threshold amount specified in individual delivery orders without a written proposal to do so and an written approval of the Contracting Officer's Representative (COR); or acquire any single item or system or any single purchase order valued at _____ or more without proposal to do so and a written approval of the COR and the Contracting Officer.

Section C - Descriptions and Specifications

MISC

The work under this contract shall be performed in accordance with the Statement of Work (SOW) or Performance Work Statement (PWS), Attachment (1), and the contractor's proposal. The contractor may ignore references to task orders, delivery orders, or indefinite delivery indefinite quantity type contract in the SOW/PWS.

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.

5252.247-9509 PRESERVATION, PACKAGING, PACKING AND MARKING (NAVAIR)(JUL 1998)

(a) Preservation, packaging and packing shall conform to prevailing industry standards for the type of commodity purchased under this contract.

(b) All packages will be clearly marked with applicable contract number/delivery order number, and will contain appropriate packing slip. All deliveries will be marked for and/or consigned as follows:

Per Contractor Purchase Order or COR instructions

(c) In the event of any discrepancy in material shipped (overage, technical rejection, damage), the contractor shall, immediately upon request of the Contracting Officer, furnish disposition instructions. Normally, such disposition instruction shall be a properly completed Commercial Bill of Lading, which includes, but is not limited to, the mode of shipment, routing, special handling, and so forth.

(d) If the contractor is required to install equipment upon delivery, then the contractor shall inform the Government of the date of shipment from the contractor's facilities and the anticipated date of arrival at the site. This report shall be made no later than the actual date that the shipment is made from the contractor's facilities. The report may be made by facsimile or e-mail, to the point of contact listed in Section G. All transportation, rigging, drayage, packing, unpacking, and handling necessary to accomplish the installation shall be the responsibility of the contractor.

D-TXT-04 CLASSIFIED MATTER (APR 2002)

Classified matter, if applicable, will be packed and shipped in accordance with transmission instructions contained in the National Industrial Security Program Operating Manual (NISPOM) and the DD Form 254 attached to this contract.

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
000101	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE

52.246-3	Inspection Of Supplies Cost-Reimbursement	MAY 2001
52.246-5	Inspection Of Services Cost-Reimbursement	APR 1984
252.246-7001	Warranty Of Data	DEC 1991

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 01-NOV-2008 TO 30-APR-2009	N/A	N/A FOB: Destination	
000101	POP 01-NOV-2008 TO 30-APR-2009	N/A	N/A FOB: Destination	
0002	POP 01-NOV-2008 TO 30-APR-2009	N/A	N/A FOB: Destination	

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
52.247-55	F.O.B. Point For Delivery Of Government-Furnished Property	JUN 2003

CLAUSES INCORPORATED BY FULL TEXT

5252.245-9509 PLACE OF DELIVERY - GOVERNMENT FURNISHED MATERIAL (NAVAIR) (MAR 1999)

(a) The Government will furnish to the contractor for use in connection with this contract the following material at the time specified:

<u>Material</u>	<u>Quantity</u>	<u>Date</u>
-----------------	-----------------	-------------

See Attachment (3)

(b) The material will be delivered at the Government's expense to the location designated in the contractor's proposal for performance. Delivery includes delivery either directly to the factory/warehouse street location, or to a designated private siding if delivery is by rail.

(c) Only the material listed above in the quantity shown will be furnished by the Government. All other material required for performance of this contractor shall be furnished by the contractor. Such Government-furnished material shall be delivered at or near contractor's plant under Government bills of lading, free of expense to the contractor, on board the conveyance selected by the Government. When rail delivery is designated by the Government as a mode of transportation and drayage from a team track to the contractor's plant is necessary, the contractor agrees to arrange for prompt unloading of cars, pick-up and delivery of material to his plant free of expense to the Government.

5252.247-9521 PLACE OF PERFORMANCE (NAVAIR) (OCT 2005)

The services to be performed herein shall be performed at China Lake and Point Mugu, CA, and other NAVAIR test sites, as needed.

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.

Section G - Contract Administration Data

CLAUSES INCORPORATED BY FULL TEXT

252.204-7005 ORAL ATTESTATION OF SECURITY RESPONSIBILITIES (NOV 2001)

(a) Contractor employees cleared for access to Top Secret (TS), Special Access Program (SAP), or Sensitive Compartmented Information (SCI) shall attest orally that they will conform to the conditions and responsibilities imposed by law or regulation on those granted access. Reading aloud the first paragraph of Standard Form 312, Classified Information Nondisclosure Agreement, in the presence of a person designated by the Contractor for this purpose, and a witness, will satisfy this requirement. Contractor employees currently cleared for access to TS, SAP, or SCI may attest orally to their security responsibilities when being briefed into a new program or during their annual refresher briefing. There is no requirement to retain a separate record of the oral attestation.

(b) If an employee refuses to attest orally to security responsibilities, the Contractor shall deny the employee access to classified information and shall submit a report to the Contractor's security activity.

5252.201-9501 DESIGNATION OF CONTRACTING OFFICER'S REPRESENTATIVE (COR)(NAVAIR) (OCT 1994)

(a) The Contracting Officer has designated MaryLou Martinez, Code 52100M0E, 805-989-9244 as the authorized Contracting Officer's Representative (COR) for this contract; and Jaime Rios, Code 521000D, 760-939-8703, as the authorized Alternate COR for this contract.

(b) The duties of the COR are limited to the following:

- a. Work cooperatively with members of the acquisition team;
- b. If a classified contract, identify contract requirements and changes as they occur to the Contracting Officer's Security Representative (COSR);
- c. Review, comment, and report on the contractor's progress and ensure the contractor complies with reporting requirements;
- d. Read and understand reference (d) and your role and responsibilities in the CPARS process to include maintaining documentation that supports the CPARS assessments;
- e. If a labor hour contract (level of effort) or order, review contractor invoices to ensure that proper labor categories are charged, travel and other items appear consistent with performance, and charges are reasonable for the work performed;
- f. Provide an independent government estimate of desired or ordered work;
- g. Track funds expended and remaining funds available so as not to overspend on the contract or order;
- h. Except for requirements originated by you, accept services and/or deliverables when completed, unless otherwise specified in the contract or order, and certify that the government has accepted all deliverables;
- i. Pay particular attention to the timely review of invoices;
- j. Obtain refresher training as required by reference (a) or as required by the PCO;
- k. Promptly notify and provide recommended corrective action to the contracting officer and your superior of any of the following:
 - (1) Any violation of or deviation from the technical requirements of the contract or order;

(2) Inefficient or wasteful methods in use by the contractor, including the contractor exceeding the requirements of the order or contract;

(3) Any contractor request for changes to the contract;

4) Issues that require clarification or resolution;

(5) Inconsistencies between invoiced charges and performance, including the use of improper labor categories;

(6) Instances where funds may be insufficient to complete the contract or order;

(7) Conditions requiring a replacement for you as COR; and

(8) Improper use of government material, equipment, or property.

l. ensure the contract does not become a vehicle for personal services as described in reference (c);

m. Review engineering studies, design, or value engineering proposals submitted by the contractor to determine their feasibility; and

n. When required, review, comment, and report on the annual and final performance reports of the contractor as to compliance with technical instructions, timeliness, and any problems associated with the contract or order.

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: Mike Cordoza

PHONE (BUS): 760-446-4843

PHONE (AFTER HOURS): _____

ALTERNATE:

NAME: _____

PHONE (BUS): _____

PHONE (AFTER HOURS): _____

(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.

5252.232-9513 INVOICING AND PAYMENT (WAWF) INSTRUCTIONS (MAR 2008)

(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.cb.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:	Cost Voucher
Issuing Office DODAAC	N68936
Admin Office DODAAC:	N68936
Inspector DODAAC (usually only used when Inspector & Acceptor are different people):	N68936
Ship To DODAAC (for Combo), Service Approver DODAAC (Cost Voucher)	N68936
DCAA Office DODAAC (Used on Cost Voucher's only):	HAA719
Paying Office DODAAC:	N64141

(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
MaryLou Martinez	Marylou.martinez@navy.mil	805-989-9244	COR
Jaime Rios	Jaime.rios@navy.mil	760-939-8703	Alternate COR
Erin Strand	Erin.strand@navy.mil	760-939-7309	Contract Specialist

G-TXT-01 ATTENTION! E-MAIL ADDRESS REQUIRED FOR DISTRIBUTION (APR 2002)

All Naval Air Warfare Center Weapons Division Contracts/ Purchase Orders and other related documents are now distributed by electronic mail.

Please provide the e-mail address to which distribution of contracts/purchase orders should be made.

E-Mail Address: _____ (b)(6) _____

G-TXT-03 CONTRACTOR ACCESS TO NAVAL AIR WARFARE CENTER WEAPONS DIVISION CHINA LAKE

Effective 01 October 2006, Contractors requiring access to the Naval Air Warfare Center Weapons Division China Lake will be required to include an DHS Form I-9 "Employment Eligibility Verification" with their badge request form. The Government will not be responsible for work delays or work stoppages due to failure to comply with these access requirements. Questions should be directed to Steven Garcia at (760)939-1463.

G-TXT-06 SECURITY ASSIGNMENT (APR 2002)

Defense Security Service, Defense Security Service, Southern California Service OPLOC, One World Trade Center, Suite 622, Long Beach, CA 90831-0622 is hereby assigned administrative responsibility for safeguarding classified information.

Section H - Special Contract Requirements

CLAUSES INCORPORATED BY FULL TEXT

5252.209-9510 ORGANIZATIONAL CONFLICTS OF INTEREST (NAVAIR) (SERVICES)(MAR 2007)

(a) Purpose. This clause seeks to ensure that the contractor (1) does not obtain an unfair competitive advantage over other parties by virtue of its performance of this contract, and (2) is not biased because of its current or planned interests (financial, contractual, organizational or otherwise) that relate to the work under this contract.

(b) Scope. The restrictions described herein shall apply to performance or participation by the contractor (as defined in paragraph (d)(7)) in the activities covered by this clause.

(1) The restrictions set forth in paragraph (e) apply to supplies, services, and other performance rendered with respect to the suppliers and/or equipment listed in Attachments (1) and (3). The contract will specify to which suppliers and/or equipment subparagraph (f) restrictions apply.

(2) The financial, contractual, organizational and other interests of contractor personnel performing work under this contract shall be deemed to be the interests of the contractor for the purposes of determining the existence of an Organizational Conflict of Interest. Any subcontractor that performs any work relative to this contract shall be subject to this clause. The contractor agrees to place in each subcontract affected by these provisions the necessary language contained in this clause.

(c) Waiver. Any request for waiver of the provisions of this clause shall be submitted in writing to the Procuring Contracting Officer. The request for waiver shall set forth all relevant factors including proposed contractual safeguards or job procedures to mitigate conflicting roles that might produce an Organizational Conflict of Interest. No waiver shall be granted by the Government with respect to prohibitions pursuant to access to proprietary data.

(d) Definitions. For purposes of application of this clause only, the following definitions are applicable:

- (1) "System" includes system, major component, subassembly or subsystem, project, or item.
- (2) "Nondevelopmental items" as defined in FAR 2.101.
- (3) "Systems Engineering" (SE) includes, but is not limited to, the activities in FAR 9.505-1(b).
- (4) "Technical direction" (TD) includes, but is not limited to, the activities in FAR 9.505-1(b).
- (5) "Advisory and Assistance Services" (AAS) as defined in FAR 2.101.
- (6) "Consultant services" as defined in FAR 31.205-33(a).
- (7) "Contractor", for the purposes of this clause, means the firm signing this contract, its subsidiaries and affiliates, joint ventures involving the firm, any entity with which the firm may hereafter merge or affiliate, and any other successor or assignee of the firm.
- (8) "Affiliates", means officers or employees of the prime contractor and first tier subcontractors involved in the program and technical decision-making process concerning this contract.
- (9) "Interest" means organizational or financial interest.
- (10) "Weapons system supplier" means any prime contractor or first tier subcontractor engaged in, or having a known prospective interest in the development, production or analysis of any of the weapon systems, as well as any major component or subassembly of such system.

(e) Contracting restrictions.

(1) To the extent the contractor provides systems engineering and/or technical direction for a system or commodity but does not have overall contractual responsibility for the development, the integration, assembly and checkout (IAC) or the production of the system, the contractor shall not (i) be awarded a contract to supply the system or any of its major components or (ii) be a subcontractor or consultant to a supplier of the system or of its major components. The contractor agrees that it will not supply to the Department of Defense (either as a prime contractor or as a subcontractor) or act as consultant to a supplier of, any system, subsystem, or major component utilized for or in connection with any item or other matter that is (directly or indirectly) the subject of the systems engineering and/or technical direction or other services performed under this contract for a period of 2 years after the date of completion of the contract. (FAR 9.505-1(a))

(2) To the extent the contractor prepares and furnishes complete specifications covering nondevelopmental items to be used in a competitive acquisition, the contractor shall not be allowed to furnish these items either as a prime contractor or subcontractor. This rule applies to the initial production contract, for such items plus a specified time period or event. The contractor agrees to prepare complete specifications covering non-developmental items to be used in competitive acquisitions, and the contractor agrees not to be a supplier to the Department of Defense,

subcontract supplier, or a consultant to a supplier of any system or subsystem for which complete specifications were prepared hereunder. The prohibition relative to being a supplier, a subcontract supplier, or a consultant to a supplier of these systems of their subsystems extends for a period of [insert the period of prohibition] after the terms of this contract. (FAR 9.505-2(a)(1))

(3) To the extent the contractor prepares or assists in preparing a statement of work to be used in competitively acquiring a system or services or provides material leading directly, predictably and without delay to such a work statement, the contractor may not supply the system, major components thereof or the services unless the contractor is the sole source, or a participant in the design or development work, or more than one contractor has been involved in preparation of the work statement. The contractor agrees to prepare, support the preparation of or provide material leading directly, predictably and without delay to a work statement to be used in competitive acquisitions, and the contractor agrees not to be a supplier or consultant to a supplier of any services, systems or subsystems for which the contractor participated in preparing the work statement. The prohibition relative to being a supplier, a subcontract supplier, or a consultant to a supplier of any services, systems or subsystems extends for a period of [insert the period of prohibition] after the terms of this contract. (FAR 9.505-2(b)(1))

(4) To the extent work to be performed under this contract requires evaluation of offers for products or services, a contract will not be awarded to a contractor that will evaluate its own offers for products or services, or those of a competitor, without proper safeguards to ensure objectivity to protect the Government's interests. Contractor agrees to the terms and conditions set forth in the Statement of Work that are established to ensure objectivity to protect the Government's interests. (FAR 9.505-3)

(5) To the extent work to be performed under this contract requires access to proprietary data of other companies, the contractor must enter into agreements with such other companies which set forth procedures deemed adequate by those companies (i) to protect such data from unauthorized use or disclosure so long as it remains proprietary and (ii) to refrain from using the information for any other purpose other than that for which it was furnished. Evidence of such agreement(s) must be made available to the Procuring Contracting Officer upon request. The contractor shall restrict access to proprietary information to the minimum number of employees necessary for performance of this contract. Further, the contractor agrees that it will not utilize proprietary data obtained from such other companies in preparing proposals (solicited or unsolicited) to perform additional services or studies for the United States Government. The contractor agrees to execute agreements with companies furnishing proprietary data in connection with work performed under this contract, obligating the contractor to protect such data from unauthorized use or disclosure so long as such data remains proprietary, and to furnish copies of such agreement to the Contracting Officer. Contractor further agrees that such proprietary data shall not be used in performing for the Department of Defense additional work in the same field as work performed under this contract if such additional work is procured competitively. (FAR 9.505-4)

(6) Preparation of Statements of Work or Specifications. If the contractor under this contract assists substantially in the preparation of a statement of work or specifications, the contractor shall be ineligible to perform or participate in any capacity in any contractual effort (solicited or unsolicited) that is based on such statement of work or specifications. The contractor shall not incorporate its products or services in such statement of work or specifications unless so directed in writing by the Contracting Officer, in which case the restrictions in this subparagraph shall not apply. Contractor agrees that it will not supply to the Department of Defense (either as a prime contractor or as a subcontractor) or act as consultant to a supplier of, any system, subsystem or major component utilized for or in connection with any item or work statement prepared or other services performed or materials delivered under this contract, and is procured on a competitive basis, by the Department of Defense with [insert the period of prohibition] after completion of work under this contract. The provisions of this clause shall not apply to any system, subsystem, or major component for which the contractor is the sole source of supply or which it participated in designing or developing. (FAR 9.505-4(b))

(7) Advisory and Assistance Services (AAS). If the contractor provides AAS services as defined in paragraph (d) of this clause, it shall be ineligible thereafter to participate in any capacity in Government contractual efforts (solicited or unsolicited) which stem directly from such work, and the contractor agrees not to perform similar work for prospective offerors with respect to any such contractual efforts. Furthermore, unless so directed in writing by the Contracting Officer, the contractor shall not perform any such work under this contract on any of its products or services, or the products or services of another firm for which the contractor performs similar work. Nothing in this subparagraph shall preclude the contractor from competing for follow-on contracts for AAS.

(f) Remedies. In the event the contractor fails to comply with the provisions of this clause, such noncompliance shall be deemed a material breach of the provisions of this contract. If such noncompliance is the result of

conflicting financial interest involving contractor personnel performing work under this contract, the Government may require the contractor to remove such personnel from performance of work under this contract. Further, the Government may elect to exercise its right to terminate for default in the event of such noncompliance. Nothing herein shall prevent the Government from electing any other appropriate remedies afforded by other provisions of this contract, or statute or regulation.

(g) Disclosure of Potential Conflicts of Interest. The contractor recognizes that during the term of this contract, conditions may change which may give rise to the appearance of a new conflict of interest. In such an event, the contractor shall disclose to the Government information concerning the new conflict of interest. The contractor shall provide, as a minimum, the following information:

- (1) a description of the new conflict of interest (e.g., additional weapons systems supplier(s), corporate restructuring, new first-tier subcontractor(s), new contract) and identity of parties involved;
- (2) a description of the work to be performed;
- (3) the dollar amount;
- (4) the period of performance; and
- (5) a description of the contractor's internal controls and planned actions, to avoid any potential organizational conflict of interest.

5252.217-9509 LIABILITY FOR GOVERNMENT PROPERTY UNDERGOING SERVICES, REPAIRS OR MODIFICATIONS (NAVAIR)(OCT 2006)

(a) As to Government property delivered to or picked up by the contractor for servicing, repairs, modification or for services preliminary thereto, the contractor shall be fully liable as an insurer for any loss of or damage to such equipment or property while in his care, custody or control arising from any cause whatsoever and he agrees to reimburse the Government in full for his account. Unless otherwise specified in the contract schedule, the Government retains title to any and all scraps, salvage or other residual materials originating from said equipment or property.

(b) Subject to the "Disputes" clause of this contract, the Contracting Officer may make an equitable adjustment downward in the contract price, or in any monies due to the contractor, to compensate the Government in whole or in part for loss or damage for which the contractor is liable hereunder.

5252.222-9500 SERVICE CONTRACT ACT (SCA) MINIMUM WAGES AND FRINGE BENEFITS (NAVAIR) (OCT 1994)

A Service Contract Act (SCA) wage determination has been requested from the U.S. Department of Labor. Until receipt of a wage determination, Attachments (5) through (7) (wage determination in the existing contract) will be applicable to this contract. If a new wage determination is received prior to contract award, it will be incorporated by amendment to this solicitation.

5252.228-9501 LIABILITY INSURANCE (NAVAIR) (MAR 1999)

The following types of insurance are required in accordance with the clause entitled, FAR 52.228-7, "Insurance-- Liability to Third Persons" and shall be maintained in the minimum amounts shown:

- (a) Comprehensive General Liability: \$200,000 per person and \$500,000 per accident for bodily injury.
- (b) Automobile Insurance: \$200,000 per person and \$500,000 per accident for bodily injury and \$500,000 per accident for property damage.
- (c) Standard Workman's Compensation and Employer's Liability Insurance (or, where maritime employment is involved, Longshoremen's and Harbor Worker's Compensation Insurance) in the minimum amount of \$100,000.
- (d) Aircraft public and passenger liability: \$200,000 per person and \$500,000 per occurrence for bodily injury, other than passenger liability; \$200,000 per occurrence for property damage. Passenger bodily injury liability limits of \$200,000 per passenger, multiplied by the number of seats or number of passengers, whichever is greater.

5252.237-9503 ORDERING PROCEDURES FOR NAVY MARINE CORPS INTRANET (NMCI) SERVICES (NAVAIR) (SEP 2000)

(a) This Support Services contract may require the use of and/or access to Department of Navy (DoN) Information Technology (IT) Resources by contractor personnel for contract performance. Applicable DoN IT Resources for performance of this contract shall be procured from the NMCI Contractor pursuant to the authority of NMCI Contract #N00024-00-D-6000, clause 5.2 "Ordering."

(b) The Support Services contractor shall obtain written authorization from the Contracting Officer executing this contract, prior to ordering directly from the NMCI Contractor. No NMCI Order may be placed without the prior written authorization of the Contracting Officer. Any NMCI Order exceeding the written authorization of the Contracting Officer shall be treated as an unallowable cost pursuant to FAR Part 31.

(c) The Government shall reimburse the contractor for the placement of NMCI Orders including applicable indirect burdens (general & administrative, etc.), excluding profit or fee.

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

Mary Jacobs

Phone – 760-939-6043

Fax – 760-939-8329

E-mail – mary.jacobs@navy.mil

Address:

Commander

Code 220000D (E. Strand – 760-939-6043)

NAVAIRWARCENWPNDIV

429 E. Bowen Rd – Stop 4015

China Lake, CA 93555-6108

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
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
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
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-17	Waiver of Facilities Capital Cost of Money	OCT 1997
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
52.217-8	Option To Extend Services	NOV 1999
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	JUL 2005
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
52.222-41	Service Contract Act Of 1965	NOV 2007
52.222-50	Combating Trafficking in Persons	AUG 2007
52.223-6	Drug-Free Workplace	MAY 2001
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	Authorization and Consent	DEC 2007
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.228-7	Insurance--Liability To Third Persons	MAR 1996
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 1	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.237-3	Continuity Of Services	JAN 1991
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
52.243-2 Alt 1	Changes--Cost-Reimbursement (Aug 1987) - Alternate I	APR 1984
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
52.246-25	Limitation Of Liability--Services	FEB 1997
52.248-1	Value Engineering	FEB 2000
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.251-1	Government Supply Sources	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 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
252.204-7003	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
252.211-7007	Item Unique Identification of Government Property	SEP 2007
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	DEC 2006
252.215-7004	Excessive Pass-Through Charges	APR 2007
252.219-7003	Small Business Subcontracting Plan (DOD Contracts)	APR 2007
252.223-7004	Drug Free Work Force	SEP 1988
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	MAR 2008
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	SEP 2004
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	MAR 2008
252.232-7010	Levies on Contract Payments	DEC 2006
252.239-7001	Information Assurance Contractor Training and Certification	JAN 2008
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).

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed _____ 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.

52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION

Employee Class Monetary Wage-Fringe Benefits

Electronic Technician I	24.72
Task Order Lead, Senior	25.10
Tech III/2 Explosive Ordnance Disposal (EOD)	34.61
Forecaster/Observer	24.79
Electronics Technician II	26.33
Electronics Technician V	34.88
Electronics Technician IV	28.23
Task Order Lead, Journeyman	28.23
Camera Repair Technician II	26.33
Camera Repair Technician III	27.95
Digital Electronics Technician III	27.95
Site Administrator	27.95
Electronics Technician II/2 Communications	26.33
Electronics Technician III/1 Communications	27.95
Electronics/Mechanical Technician II	26.33
Electronics/Mechanical Technician III	27.95
Generator Electrician III	28.60
Generator Mechanic I	24.72
Generator Mechanic III	27.95
Generator Mechanic III/Range Support	27.95
Technician II Range Support	26.33
Tech III Electro/Mechanical/Range Tech	27.95
Tech III Fleet Mechanic	27.95
Video Repair Technician III	27.95
Electronics/Mechanical Technician III	27.95
Technician III/1 EOD	34.61
Technical Operations Specialist	16.87
Technical Writer	22.65
Department Secretary	22.65
Multigraphics Technician	22.65
Computer Operator I	22.65
Prop Control Spec	22.65
Range Scheduler	22.65
Data Handlers	16.87
Data Technician	16.87
Computer Analyst	16.87
Meteorology Technician	21.76
Tech Systems Operators	21.31
Technical Illustrator	21.31
Purchasing Agent	16.98
Clerk Typist	14.92
Courier	10.62
Senior Documentation Specialist	13.50
Assistant Range Controller	16.84
Secretary	16.84

52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)

United States law will apply to resolve any claim of breach of this contract.

52.244-2 SUBCONTRACTS (JUN 2007)

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

“Approved purchasing system” means a Contractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR).

“Consent to subcontract” means the Contracting Officer's written consent for the Contractor to enter into a particular subcontract.

“Subcontract” means any contract, as defined in FAR Subpart 2.1, entered into by a subcontractor to furnish supplies or services for performance of the prime contract or a subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

(b) When this clause is included in a fixed-price type contract, consent to subcontract is required only on unpriced contract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (c) or (d) of this clause.

(c) If the Contractor does not have an approved purchasing system, consent to subcontract is required for any subcontract that--

- (1) Is of the cost-reimbursement, time-and-materials, or labor- hour type; or
- (2) Is fixed-price and exceeds--

(i) For a contract awarded by the Department of Defense, the Coast Guard, or the National Aeronautics and Space Administration, the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of the contract; or

(ii) For a contract awarded by a civilian agency other than the Coast Guard and the National Aeronautics and Space Administration, either the simplified acquisition threshold or 5 percent of the total estimated cost of the contract.

(d) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts:

(e)(1) The Contractor shall notify the Contracting Officer reasonably in advance of placing any subcontract or modification thereof for which consent is required under paragraph (b), (c), or (d) of this clause, including the following information:

- (i) A description of the supplies or services to be subcontracted.
- (ii) Identification of the type of subcontract to be used.
- (iii) Identification of the proposed subcontractor.
- (iv) The proposed subcontract price.
- (v) The subcontractor's current, complete, and accurate cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other contract provisions.
- (vi) The subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this contract.
- (vii) A negotiation memorandum reflecting--
 - (A) The principal elements of the subcontract price negotiations;
 - (B) The most significant considerations controlling establishment of initial or revised prices;
 - (C) The reason cost or pricing data were or were not required;
 - (D) The extent, if any, to which the Contractor did not rely on the subcontractor's cost or pricing data in determining the price objective and in negotiating the final price;
 - (E) The extent to which it was recognized in the negotiation that the subcontractor's cost or pricing data were not accurate, complete, or current; the action taken by the Contractor and the subcontractor; and the effect of any such defective data on the total price negotiated;
 - (F) The reasons for any significant difference between the Contractor's price objective and the price negotiated; and

(G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.

(2) The Contractor is not required to notify the Contracting Officer in advance of entering into any subcontract for which consent is not required under paragraph (b), (c), or (d) of this clause.

(f) Unless the consent or approval specifically provides otherwise, neither consent by the Contracting Officer to any subcontract nor approval of the Contractor's purchasing system shall constitute a determination--

- (1) Of the acceptability of any subcontract terms or conditions;
- (2) Of the allowability of any cost under this contract; or
- (3) To relieve the Contractor of any responsibility for performing this contract.

(g) No subcontract or modification thereof placed under this contract shall provide for payment on a cost-plus-a-percentage-of-cost basis, and any fee payable under cost-reimbursement type subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).

(h) The Contractor shall give the Contracting Officer immediate written notice of any action or suit filed and prompt notice of any claim made against the Contractor by any subcontractor or vendor that, in the opinion of the Contractor, may result in litigation related in any way to this contract, with respect to which the Contractor may be entitled to reimbursement from the Government.

(i) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.

(j) Paragraphs (c) and (e) of this clause do not apply to the following subcontracts, which were evaluated during negotiations:

Team-Member Subcontractors:

(b)(6)

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.amet.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 (48 CFR) 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.

5252.204-9504 DISCLOSURE OF CONTRACT INFORMATION (NAVAIR) (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.

**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 (b)(4)
- (b) the items covered by such amount are Item(s) 0001; and
- (c) the period of performance for which it is estimated the allotted amount will cover is 11/1/08 to 4/30/09.

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	Performance Work Statement (PWS) or Statement of Work (SOW)	52	7/1/08
Attachment 2	DOD Contract Security Classification Specification, DD254, with attachments	31	6/3/08
Attachment 3	Government Furnished Property (GFP) – PCR Log and OPE List	215	6/2/08
Attachment 4	Award Fee Plan	5	7/1/08
Attachment 5	Ventura County Wage Determination, Rev 8, 2005-2071	12	5/29/08
Attachment 6	San Bernardino County Wage Determination, Rev 7, 2005-2054	12	5/29/08
Attachment 7	Kern County Wage Determination, Rev 8, 2005-2044	12	5/29/08
Exhibit (A)	Contract Data Requirements List (CDRLs), DD1423		



Statement of Work

To Provide

Pacific Ranges Support Services

RFP No. N68936-08-R-0058

Submitted By

SYSTEMS APPLICATION & TECHNOLOGIES, INC.

2230 Statham Boulevard, Suite A

Oxnard, California 93033

(805) 487-7373

Conformed 1 July 2008

Proprietary Notice

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1.0 SCOPE

This Statement of Work (SOW) defines the effort required for operational, maintenance, and technical engineering support for the Pacific Ranges Department of the Naval Air Warfare Center Weapons Division (NAWCWD).

The Contractor shall participate as a team member with the Government in ensuring the day-to-day operation and maintenance (O&M) of the Pacific Ranges. In this role, the main focus of the Contractor-Government team is to provide the required Range services to Test and Evaluation (T&E) and training customers. The specific requirements will focus on ensuring the availability of Range systems for test operations and the real-time support of these operations. This includes preparation of targets and target areas, O&M of Range instrumentation/communication systems, O&M of remote sites and power generation, Range scheduling and billing, meteorology, operational support and stand-by maintenance, and post-operation analysis of test data. This SOW carefully defines these tasks while leaving flexibility for additional tasking or changes to scope, as required to provide Range operations, maintenance, and engineering support.

In addition, the Contractor shall provide the engineering and technical support necessary to maintain, improve, and upgrade Range systems -- ensuring the continued viability of the Pacific Ranges in the out years.

1.1 Background

The NAWCWD is a Department of Defense (DoD) Research, Development, Test and Evaluation (RDT&E) center for sea, air, and ground warfare. NAWCWD maintains and operates the sea, land, and air testing/training areas comprising the Sea Range at Point Mugu, California; the Land Ranges at China Lake, California; and other facilities.

Land Range facilities at China Lake include the North Ranges, Etcherson Valley Radar Cross Section (RCS) measurement facility, Frequency Measurement facility ("FM Hill"), the Propulsion/Warhead/Environmental (P/W/E) Test Range, and the Supersonic Naval Ordnance Research Track (SNORT). The Land Ranges are supported by a variety of instrumentation and communications systems.

Sea Range facilities and instrumentation sites are located at Point Mugu and the outlying Channel Islands off the California coast. These sites provide the Range command, control, communications, tracking, data collection, and data processing systems/networks to support test operations on the NAWCWD Sea Range.

The NAWCWD Pacific Ranges Department also supports a Detachment at the White Sands Missile Range in New Mexico, as well as deployed operations at other locations worldwide. This includes not only other test ranges, but deployed operations aboard ships and aircraft.

Maintenance, operation, and engineering services for the Sea and Land Ranges requires the use of Government personnel and support Contractors.



2.0 Applicable Documents

The following documents are applicable to this Statement of Work and attached appendices to the extent specified herein.

2.1 Federal Regulations (other than DoD)

40 CFR 260-268	Title 40 US Code - Protection of the Environment, Subchapter I - Solid Waste
40 CFR 302	Title 40 US Code - Protection of the Environment, Subchapter J - Superfund, Emergency Planning and Community Right-to-Know Programs
JTR	Joint Travel Regulations
OPA 90	Oil Pollution Act of 1990

2.2 Department of Defense Documents

Manuals

CJCSM 3212.02 (10-98)	Performing Electronic Attack in the United States and Canada
DoD 4160.21-M (12-91)	Defense Reutilization and Marketing Manual
DoD 4160.21-M-1 (10-91)	Defense Demilitarization Manual
DoD 5220.22-M (1-95)	National Industrial Security Program Operating Manual (NISPOM)
NAVEDTRA 43203-C (2-95)	Personnel Qualification Standard for METOC Forecasters
NAVEDTRA 43204-D (3-96)	Personnel Qualification Standard for METOC Observers
NAVFAC P-300	Management of Transportation Equipment
NAVFAC P-307	Management of Weight Handling Equipment Maintenance and Certification
NAVSEA OP 5 Vol. 1, rev. 6 (3-95)	Ammunition & Explosive Ashore Safety Regulations for Handling, Storing, Production Renovation, and Shipping
NAVWPNCEN IDP 3726 (11-89)	Junction Ranch Safety Supplement
NAVWPNCEN IDP 3798 (3-88)	Range Safety Manual
NAVWPNCEN TM 6155 (10-87)	Range Department Operations Security Plan
NAWCWPNS TS 98-22	Standard Range Format
NAWC/RCM PB3243	Hardware Configuration Manual
NTP-6(D) (8-92)	Naval Telecommunications Publication, Spectrum Management Manual
OFCM FCM-H1-1995 (12-95)	FMH-1 Surface Weather Observations and Reports
OFCM FCM-H3-1991 (6-91)	FMH-3 Rawinsonde Observations



Instructions

COMPMTICINST 9302.1A	Program Identification Code
DoD 5000 (series)	Defense Acquisition
FLENUMMETOCINST 3710.1B	Optimum Path Aircraft Routing System (OPARS)
METOCOCOMINST 3140.2E	Local Area and Area of Responsibility Forecasters Handbook
NAVAIRINST 3960.4	Project Test Plans for Tests of Air Vehicles, Weapons and Installed Systems
NAVAIRINST 5239.2 (2-93)	Naval Air Systems Command Information Systems Security Program
NAWCWPNSINST 3070.1A	Operations Security Manual
NAWCWPNSINST 3440.1	Disaster Preparedness Plan
NAWCWPNSINST 5100.1 (9-93)	General Safety & Industrial Hygiene Manual
NAWCWPNSINST 5510.1 (11-93)	Personnel Entering Remote Range Areas
NAWCWPNSINST 5510.29A (2-97)	Naval Air Warfare Center Weapons Division Information and Personnel Security Program Regulation
NAWCWPNSINST 6240.1 (2-94)	Hazardous Waste Management Plan
NAWCWPNSINST 8020.3 (7-93)	Qualification and Certification of Personnel Performing, Supervising Conventional Explosives Operations
NAWSCLINST 3010.1 (12-94)	Emergency Management Plan
NAWSCLINST 3140.1 (7-93)	Storm Bill
NAWSCLINST 5530.1 (2-96)	Physical Security Plan
NAWSCLINST 8027.1D (7-97)	Reutilization of Salvageable Materials Generated from Range Residue and Ammunition Explosives and Dangerous Articles
NMOCINST 3141.2 (2-96)	Surface Metar Observations User's Manual
OCEANCOMINST 3140.4B (2-91)	Atmospheric Turbulence and Icing Antenna
OCEANCOMINST 3143.1F (5-96)	Terminal Aerodrome Forecasts
OCEANCOMINST 3140.14D (5-96)	Procedures Governing Flight Weather Briefings and Preparing DD-175-1 and U.S. Navy Flight Forecaster Folder
OCEANCOMINST 3142.1 (8-85)	Pilot Weather Reports (PIREPS)
OPNAVINST 2400.2E (1-89)	Navy Management of the Radio Frequency Spectrum
OPNAVINST 3432.1 (8-95)	Operations Security
OPNAVINST 3721.20B (1-97)	Department of Defense Notice to Airmen (NOTAM) System
OPNAVINST 5102.1C (5-90)	Mishap Reporting and Investigation
OPNAVINST 5530.14C (12-98)	Navy Physical Security
SECNAVINST 5510.36 (3-99)	Department of the Navy (DON) Information Security Program (ISP) Regulations
SECNAVINST 5720.42F	Department of the Navy Freedom of Information Act (FOIA) Program



2.3 Other Documents

Standards

ANSI/ASQC Q9003 (1994)	American National Standard Quality Systems - Model for Quality Assurance in Final Inspection and Test
CMU/SEI-93-TR-24 (2-93) ESC-TR-93-177	Capability Maturity Model for Software, Version 1.1

Manuals/Instructions

IM-27398, Operation Manual and Maintenance for the Kineto Tracking Mount (KTM)

SRS-TR7649, Revision B Software Test Procedures

SSR-2104-ENV (4-95), Oil and Hazardous Substance Spill Prevention, Control, and Countermeasure Plan for Naval Air Weapons Station, Point Mugu, CA

Contractor's Management Plan

SVERDRUP Scoping Study and SOW (for guidance and reference)

Range Schedule, Range Operations Directive, and Range Instrumentation Plans

RTIC equipment operation and maintenance manuals

All specific and applicable OEM, Government, and Contractor manuals, documents, procedures, specifications, diagrams, diagnostics, maintenance plans, maps, instructions, notices, and check-out lists contained within the MOCS library, located at Point Mugu in building 53A, room 141A

Range Data Systems User Responsibilities manual

Maintenance Engineering Plan, Parts I & II, Point Mugu Facility, rev. July 1998

Equipment operation/maintenance manuals located in each respective equipment operation area

ITCS Equipment Operations and Maintenance Manuals

Personnel Qualification Standard (PQS) for Handar Weather Stations and Tethersonde System

3.0 Requirements

The Contractor shall provide operations and maintenance, engineering, and technical support services for the NAWCWD Pacific Ranges and associated systems, as ordered by individual Task Orders. Based on Task Orders, the Contractor shall support the day-to-day operations of the NAWCWD China Lake Land Range and Point Mugu Sea Ranges; maintain Range systems at NAWCWD and deployed sites; and provide engineering and technical services in support of NAWCWD Range operations. In addition to Task Orders, the Government will provide the following documents to define and schedule Range tasking:

- (a) Range Schedules (Daily and Weekly) which describe test date, time of day, duration, and resources required to support a test operation in real-time.
- (b) Operations Directive for each program that is supported by the NAWCWD Range(s). The document provides the general Range operations parameters, instrumentation, communications, target requirements, and Range Safety requirements, along with data collection, computation, display and output requirements.
- (c) Instrumentation Plan for each Sea Range operation. The document provides the specific test design, Range instrumentation setup parameters, communications frequencies, and real-time data processing, collection, and display requirements.
- (d) Work Requests, as required, for specific Sea Range test data processing requirements, data reduction parameters, data output/delivery requirements, and Sea Range computer support.
- (e) Work Orders, as required, for specific construction, repair, and overhaul projects on Range systems and equipment.
- (f) Trouble Calls, as required, for breakdown/corrective maintenance action.

3.1 General

The Contractor shall provide all management, administration, supervision, labor, materials, supplies, tools, and equipment, except that specified as Government-Furnished, to accomplish the task requirements of this SOW. Work shall be performed in accordance with all terms, conditions, general and special contract requirements, specifications, drawings, attachments, exhibits, etc., contained herein or incorporated by reference.

3.1.1. Work Areas and Schedules

The work will primarily be performed at China Lake, California; Point Mugu, California; and the outlying Channel Islands. Secondary sites where work may be required include the White Sands Detachment, White Sands Missile Range, New Mexico; Pacific Missile Range Facility, Hawaii; and on-board test and evaluation aircraft and ships. All functional areas are subject to occasional off-site requirements. Mission support requirements may be performed at other locations throughout the world.

Range Test Schedule. The Contractor shall set up and operate equipment to satisfy the Range Test Schedules. The Test Schedule is subject to frequent changes; the daily schedule is finalized one day prior to scheduled testing. Last minute and real-time changes are common.

Work Schedules. Contractor normal work hours will be consistent with the NAWCWD Compressed Work Schedule (CWS): nine (9) hour days, Monday through Thursday, with every other Friday off ("flex" Friday). Each regular two-week pay period totals 80 hours. Support requirements outside normal working hours are a common occurrence. The Contractor shall ensure that personnel are available or on stand-by to support the Range Test Schedule during other than normal hours and during peak times.



In addition, the Contractor shall provide for staggered hours or multiple shifts to provide coverage of Range test and support requirements. Fixed staggered requirements include meteorology and airfield operations. Work shifts may include irregular or extended hours. When possible, the Contractor will stagger shifts and rotate personnel to minimize overtime. Where practical, personnel will be cross-trained and cross-utilized between sites to ensure continuity of support, respond to surge requirements, and minimize overtime. When personnel are temporarily deployed or assigned off-site, normal working hours will be modified to best support the assigned tasking.

Overtime. When the testing schedule or priorities require overtime, the Contractor shall generate overtime authorization forms and submit the overtime requirements to the appropriate Technical Assistant (TA) for approval prior to performing. All overtime must be approved by the TA and the Contracting Officer's Representative (COR). Generally, overtime will only be requested or authorized for support of Range test operations.

Cross-Utilization of Personnel. The Contractor shall provide for cross-training and cross-utilization of personnel to optimize support of Pacific Ranges requirements. Cross-utilization will be used as required and prudent to provide efficiencies to Range operations, maintenance and engineering tasks. Personnel will be cross-utilized to support special or surge requirements across all NAWCWD range sites. Cross-site utilization will optimize the use of available Government transportation to minimize travel costs.

Cross-training shall be optimized to meet expected cross-utilization requirements, minimize overtime, and shall be performed so as not to interfere with normal Range operations.

3.1.2. Maintenance

The Contractor shall maintain, repair, and modify Government-Furnished Equipment (GFE) assigned to the Contractor, as listed in the contract. Maintenance shall be performed and documented in accordance with the Contractor's Maintenance Plan and manufacturers' specifications and tolerances, commensurate with age, use, repair, and modification. Maintenance shall include scheduled preventive maintenance, corrective maintenance, and repair. Maintenance priorities will be based first on the readiness of the equipment to meet the Range operational requirements, and then on resources allocation to maintain the equipment.

The Government will provide such test equipment and tools, as are required and available, to support maintenance services. The Contractor shall install such repair parts as are required by the Contractor's Maintenance Plan. The Contractor shall maintain appropriate spare parts or have access to spare parts for equipment that the Contractor is responsible for maintaining. In addition, the equipment to be maintained may include unique items or those that have been altered from their original configuration(s).

Upon authorization from the Contracting Officer, the Contractor may subcontract maintenance, repairs, and other services. No modification of the Range technical equipment or facilities shall be effected without prior approval of the COR. Approved modifications shall be documented by the Contractor.

The Contractor shall not perform Depot Level Maintenance (DLM) conversion, overhaul, reclamation, and manufacture or rebuilding of parts where extensive shop facilities are required unless authorized by the COR. The Contractor shall notify the COR when DLM is, or will be, required.

Preventive/Scheduled Maintenance. The Contractor shall perform preventive maintenance on all mechanical, electronic, and electrical equipment, in accordance with the approved Maintenance Plan and original equipment manufacturers' literature, commensurate with age, use, repair, and modification of the equipment. Preventive maintenance shall consist of conducting inspections, including measures of wear and sensitivities, calibration and alignment, testing, adjustment, cleaning, lubricating, painting, replacing parts, and other repairs performed at scheduled intervals to prevent degradation and failure of equipment. Other scheduled maintenance includes acceptance and transfer inspections.

All preventive maintenance will be completed at the prescribed intervals, in accordance with Maintenance Plan and original equipment manufacturers manuals. Preventive maintenance shall be scheduled during non-test periods to



preclude interference with the daily test schedule. Preventive maintenance for generators and the Photovoltaic site will be tracked in an automated database and made available to the TA's and COR via the PR&F Network.

Corrective/Emergency Maintenance. The Contractor shall perform corrective and/or emergency maintenance when failure or degraded performance is evidenced. When such a condition exists, the components shall be tested and repaired to perform to the most current specification or measurement scale. This type of maintenance requirement is random, therefore difficult to predict or adequately define in advance. Corrective/emergency maintenance can require removal, troubleshooting, disassembly, repair, reassembly, calibration, reinstallation, verification, and certification, depending upon the extent of the failure. If the failure is extensive, complete rework and overhaul may be required. For routine corrective maintenance items, the TA will provide a Work Order, prioritizing and describing the failure(s). The Contractor shall inform the TA whenever the operational status of the equipment changes. Corrective or emergency maintenance will generally be performed to ensure system availability for Range tests. Additional requirements for corrective/emergency maintenance may be elaborated on in the individual Task Orders, including specific time-to-repair or operational availability, as required.

Calibration/Acceptance. At the completion of any maintenance action and as required for the specific system undergoing maintenance, the Contractor shall calibrate the system(s) in accordance with manufacturers/NAWCWD specification and perform equipment/systems acceptance test to verify the operational capability of the system.

Standby Maintenance Personnel. When directed by Task Order, the Contractor shall provide standby maintenance personnel during Range test operations. Standby personnel will be pre-positioned outside test hazard footprints but located so that they can respond rapidly to failure/degradation of test equipment. Maintenance and repair actions will be initiated by notification from the Test Conductor. The Contractor shall monitor Range radio test frequencies for notification of test equipment failures. The required response times will be defined by functional area elsewhere in this SOW and in the Task Order.

Unique Equipment. The Contractor shall maintain Range equipment that has been altered from its original configuration. The Contractor shall also maintain equipment where, due to age, origin, manufacturer, or modifications, the availability of parts, drawings and documentation may be limited or non-existent. Maintenance of such equipment will require skilled technicians and the cannibalization, procurement, modification or manufacture of repair components. As directed by Task Order, the Contractor may also be required to modify equipment to meet specific maintenance or functionality requirements. For unique and altered equipment, the Contractor may be required to fabricate parts and assemblies from drawing packages or by duplicating broken or worn-out parts. Fabrication and manufacture may be performed at Government or Contractor site, as specified in the Task Order. The Contractor will be capable of assembling components into major assemblies and systems in the field to complete specified repairs.

3.1.3. Maintenance Logs

The Contractor shall maintain a log of all maintenance actions performed on each system. The logs will be maintained in Contractor format and shall be made available to the TA and COR via the PR&F Network. Logs will support development of statistical models for reliability, availability, and maintainability of the various Range systems.

3.1.4. Maintenance Plan

The Contractor shall develop a Maintenance Plan, describing processes and Standard Operating Procedures (SOPs) to perform all levels of maintenance on the equipment attached to the contract. At a minimum, the Plan shall include SOPs for scheduling and performance of preventive maintenance, unscheduled corrective maintenance, maintenance documentation, procurement of repair parts and materials, and quality control. The Maintenance Plan shall be developed as an attachment to the Contractor's Management Plan and shall be published on the PR&F Network.

The Maintenance Plan shall establish a common baseline for determining the logistic support and calibration requirements for each equipment end item. The Plan shall provide a narrative describing the maintenance and repair

procedures for each piece of equipment. The reliability and maintainability of each piece of equipment should be the major consideration for the development of the Maintenance Plan. Individual Task Orders may further define specific processes, procedures, and changes/additions to the Maintenance Plan. Considerations in development and update of the Contractor's Maintenance Plan include:

- (a) The extent to which maintenance is expected to interfere with routine operations.
- (b) The adequacy of equipment calibration requirements.
- (c) The adequacy of spares support to maintain operational readiness.
- (d) The anticipated ratio of unscheduled to scheduled maintenance.
- (e) Scheduled component replacement.
- (f) The ability to resolve maintenance-related problems.
- (g) How effectively the maintenance training program supports the maintenance program objectives.
- (h) Determining if the reliability and maintainability of the equipment is equal to or better than the manufacturer's predictions.
- (i) Determination of excessive amounts of maintenance within certain equipment categories, which might indicate design or maintenance deficiencies.

The Contractor's Maintenance Plan shall incorporate and update the existing Contractor's Maintenance Plan at China Lake and the Point Mugu Maintenance Engineering Plan Procedures (MEPP), Parts I and II.

3.1.5. Training and Certifications

Basic training to meet labor category qualifications is the sole responsibility of the Contractor. Special and unique training for new systems and sub-systems that are delivered by the Government will be provided by the Government on a one-time basis. The Contractor shall provide specialized training by on-the-job cross-training of additional personnel to ensure continuing operational capability on the equipment. General educational courses or programs for enhancement of basic qualifications or academic standing of employees shall not be accomplished at the Government's expense. The Contractor shall not be reimbursed for recruiting costs. All Government-provided training shall have written approval from the COR, prior to incurring any training expenses.

Certification Plan. The Contractor shall generate a plan describing the Contractor's process for certifying equipment and equipment operators, meteorology forecasters/observers, ordnance handlers and explosive ordnance disposal technicians, and ordnance handling equipment. The Contractor shall use NAVFAC P-300 and P-307 as guidance in developing the equipment and equipment operator certification requirements. This Plan shall be an attachment to the Contractor's Management Plan.

Personnel/Equipment Certifications. The Contractor shall be responsible for all equipment and personnel requiring certification. Personnel certification will be maintained in employee personnel files, available for review by the TA, COR, and Naval Air Weapons Station (NAWS) Safety Office. Equipment certifications shall be available for review by the TA, COR, NAWS Safety and Transportation Officers.

Explosive Ordnance Certifications. The Contractor shall certify all personnel performing explosive ordnance handling, disposal, or destruction, in accordance with NAWCWPNSINST 8020.3. The Contractor shall submit a letter to the COR, listing personnel certified to perform ordnance operations, within 15 days of contract start date. Letters of certification shall be on official corporate letterhead, signed by the Program Manager, and shall include



the contract number, employee name, and certification description. These letters shall be updated as changes occur and at intervals not to exceed one (1) year. (CDRL A001)

The Contractor shall certify scrap ordnance to be safe, in accordance with NAVWPNCEN IDP 3798.

Meteorology Forecaster/Observer Certifications. Meteorology Forecasters/Observers will be certified in accordance with NAVEDTRA 43203-C and NAVEDTRA 43204-D.

3.2 Management

The Contractor shall provide management of the contracted services, personnel, and equipment. This includes financial monitoring and reporting, task assignment and tracking, project management, personnel management and staffing, work control and reporting, and control/reporting of Government-owned property. The Contractor shall provide liaison to the Government Contracting Officer, Contracting Specialists, COR, TA, and the Government Property Administrator.

The Contractor shall use innovative staffing, management, and reporting approaches, whenever possible, to add efficiencies, improve existing processes, or otherwise add value to the Pacific Ranges support.

3.2.1. Program Manager

The Contractor shall designate, in writing, a contract Program Manager (PM). The PM shall be on-site at China Lake, as of the Phase-In start date, and throughout the term of the contract. The PM shall be responsible for the performance and conduct of this contract and any related Task Orders. The PM shall be the central Point of Contact (POC) for the Government, including the Contracting Officer and COR(s). The PM may delegate authority for specific tasks and functions but retains ultimate responsibility for compliance with contract tasking. The PM, or designated alternate, shall attend briefings, conferences, In-Process Reviews (IPRs), Performance Evaluation Boards (PEB), and other Government-designated meetings.

The Contractor PM shall have full signature authority for the corporation, up to the limits of the awarded contract. This authority shall be evidenced to the Government, in writing, at contract award or whenever a new PM comes on board.

3.2.2. Deputy Program Manager

The Contractor shall assign, in writing, a Deputy Program Manager (DPM) to act in the absence of the PM. In addition, the PM may delegate certain functions to the DPM on a routine basis. The DPM shall be on-site at the Sea Range.

The Contractor DPM shall have full signature authority for the corporation, up to the limits of the awarded contract. This authority shall be evidenced to the Government, in writing, at contract award or whenever a new DPM comes on board.

3.2.3. Management Plan

The Contractor shall develop and maintain a Management Plan for this contract. Government personnel shall have access to the Management Plan via the PR&F Network. The Contractor's Management Plan shall provide the Contractor's organization and assignment of functions, duties and responsibilities, policies and procedures, reporting requirements, and SOPs. The Plan shall also define specific processes for the administration and management of this contract and related Task Orders, including the Contractor processes for:

- (a) Overall contract administration and management.
- (b) Negotiating and accepting Task Order(s) from the Government.



- (c) Management, administration, and supervision of individual Task Orders.
- (d) Financial administration, accounting, and vouchering.
- (e) Material procurement, property control, and GFE inventory.
- (f) Quality Assurance, Safety, and Security.

The Management Plan shall include the following Plans as attachments: Contract Phase-In and Phase-Out Plans, Maintenance Plan/Maintenance Engineering Plan, Quality Assurance/Quality Control (QA/QC) Plan, Configuration Management (CM) Plan, Certification Plan, Hazardous Materials (HAZMAT) Management Plan, Operations Security (OPSEC) Plan, and Disaster Preparedness Plan. Any additional plans specified in this SOW shall also be incorporated as attachments to the Management Plan.

The Management Plan shall be updated whenever changes occur to the Contractor's organization, policies, procedures, or management personnel. (CDRL A002)

3.2.4. Project and Financial Management

The Contractor shall provide project management oversight for all work accomplished and provide a PM who shall be responsible for the performance of the work.

The Contractor shall report labor hours for each Task Order and Work Request/Work Order on a weekly basis, by entering data into the Government-provided Test Range Information Management System (TRIMS). The Contractor shall complete a Monthly Progress, Status, and Management Report no later than 15 days after the end of each month. (CDRL A003, A004)

Financial Tracking System. The Contractor shall provide a financial tracking system and database to report costs accrued by the Contractor. The following requirements apply:

- (a) The financial data shall be available on the PR&F Network.
- (b) The Contractor shall report the following data for each operation number, work request, and task order: Contractor personnel labor hours and costs; material, subcontracts, and other direct costs; and travel costs.
- (c) This database shall provide current monthly hours and dollar expenses incurred for the amount billed to the Government, awarded funding level, Job Order Number (JON), available funding, and percentage expended by each Task Order.
- (d) The database shall also show accumulated amounts for hours and dollars at the Task Order level for the entire performance period of the Task Order.
- (e) The database shall be available for read-only access by authorized Government personnel. Access to the database shall be arranged through the COR.
- (f) Contractor-developed financial reports derived from the database shall be submitted to the COR for approval prior to implementing the financial tracking system. The system and database shall be operational by the end of the phase-in period. Utilizing data derived from the database, the Contractor shall provide a monthly report, via electronic mail, to the COR and all Government administrative officers that require the financial data.

3.2.5. Personnel Management

The Contractor shall provide staffing and personnel management for all assigned tasks. This includes matching qualified personnel to specific tasks, assigning working hours and shifts, cross-utilizing personnel between tasks, and determining a need for and requesting approval for overtime.

3.2.6. Work Control

The Contractor shall establish a system for work control. The work control procedures system shall utilize appropriate work authorization documents and provide adequate controls and reports to ensure effectiveness, efficiency, and prompt response to workload requirements. The system shall provide controls to ensure that costs incurred are properly reported as soon as the information is available.

3.2.7. Purchasing

The Contractor shall purchase parts, materials, equipment, and services to support operations and maintenance needs of the NAWCWD Ranges, as authorized by the Government Contracting Officer/COR and TA. The Contractor's purchasing system will be approved by the Government.

3.2.8. Evidence of Satisfactory Performance

Satisfactory performance shall be evidenced by the Contractor's accomplishment of all work and submission of reports and submittals within the required response time, inspection by the Government, and the absence of validated customer complaints.

3.2.9. Performance Evaluations Meetings

The Contractor PM, DPM and QA/Safety Engineer shall meet with the COR and TA's, at least weekly, during the first month of this contract. Thereafter, meetings shall be held as deemed necessary by the COR or the Contractor, but at least on a quarterly basis.

However, a meeting shall be held upon notification from the COR when a Contract Discrepancy Report (CDR) is issued. Mutual efforts will be made to resolve any and all problems identified. Written minutes of these meetings will be signed by the COR, the Contractor, or their designated representatives, as appropriate.

3.2.10. Inspection by Regulatory Agencies

The Contractor shall, without delay, notify the COR by telephone of any inspection visit to Government facilities by agent(s) of any regulatory agency. The Contractor shall submit a written report, by close of business of the next working day following completion of the inspection/visit, to include the names, identification numbers, agency of the inspectors, and the reason for the visit. The Contractor shall submit a copy to the COR of all inspection reports received.

3.3 China Lake

The Contractor shall provide operations and maintenance of various NAWCWD China Lake Range sites and assets, including the electrical, mechanical, and electronic equipment, power generation machinery, computer systems and software, vehicles and heavy equipment, as well as other hardware assets. These services may be performed on the China Lake Land Ranges, at Naval Air Weapons Station (NAWS) sites, or off-site to support NAWCWD Range operational requirements at Electronic Combat Range, Point Mugu and San Nicolas Island. Specific tasks are addressed in the following paragraphs.

3.3.1. Operational Support

The NAWCWD Land Range at China Lake is a fully instrumented air and ground Range for test and training evolutions. The Ranges include a variety of ground target areas, including ordnance impact areas for inert, practice, live ordnance, and tactical weapons. The China Lake Land Ranges include the Lower Baker, Baker I, Etcherson Valley, Airport Lake, Coso, "G1", Charlie, and Superior Valley complexes. Fixed, mobile, and remote control targets are provided on the Land Range. Operational support includes preparing target areas for operation, maintaining and operating targets and support equipment, target area clean-up, and Explosive Ordnance Disposal (EOD). In addition, test/training requirements may require deployment and support of Range assets in other locations, both on and off the NAWCWD Ranges.

China Lake Land Range access is controlled through the Microspeech system. Microspeech is a computer-based visualization system that allows the controller to determine the status of each Range (hot, cold, unused), track Range usage in real time, and issue Range clearances. All Range participants must check in with Microspeech prior to their clearance onto a Range.

Specific Requirements. The Contractor shall operate and maintain Land Range assets in support of operational requirements, as follows:

- (a) Target Preparation Shop. The Contractor shall operate and maintain target preparation shop equipment at the Lower Baker (LB) and Baker-1 Aircraft Test Ranges.
- (b) Maintenance of Mobile Land Targets/Target Vehicles. The Contractor shall maintain, repair, and restore mobile land targets, radio-controlled dune buggies, tracked vehicles, and military-type target vehicles (M-60 tanks). Maintenance efforts will entail electronic, electrical, and mechanical repair, structural restoration after operational damage, and return to operational readiness.
- (c) Static Targets and Emitters. In accordance with written instructions provided by the TA, the Contractor shall design, document, construct, maintain, locate, and repair a variety of static targets and target arrays, transmitters, and receiver antenna systems. Target construction materials may include wood, metal, sea vans, foam, reinforced and non-reinforced concrete, stucco, block, and other construction materials. Target emitters, antennas, and power sources will be situated, as directed.
- (d) Target Areas Preparation. The Contractor shall prepare target areas and surface areas in support of test operations. These tasks may include fabrication and placement of markers, pylons, and mockups. The Contractor shall lay out lime circles of various sizes and other required special target configurations. As necessary, the Contractor shall realign and replace the used tire 100' grid points. The Contractor shall measure and place plywood pyramids to indicate target zones and flight paths for scheduled tests. The Contractor shall remove and replace damaged or destroyed target vehicles that are no longer serviceable.
- (e) Target Spotting. The Contractor shall place targets or locate existing targets in designated target areas, man the Target spotting tower, and operate the Halogen searchlight(s), as required.
- (f) Target Location System. The Contractor shall maintain a target location system which displays target positions via a Global Information System (GIS) or similar system on the PR&F Network. This system will support planning of target location and maintenance, as well as streamlining day-to-day tasking of personnel and equipment.
- (g) Maintenance of Static Targets and Support Equipment. The Contractor shall maintain and repair fixed targets and related equipment. This includes mechanical/electrical maintenance of gasoline, diesel, and multi-fuel vehicles; and structural restoration after operational damage has been incurred during use as a target. The Contractor shall maintain all mechanical equipment used in support of Range operations.
- (h) Ordnance/EOD. The Contractor shall provide ordnance support and Range clearance, utilizing certified personnel. The Contractor shall provide support for ordnance tests, including ordnance handling and

transportation. The Contractor shall provide ordnance-certified personnel to support other test functions, as required. The Contractor shall certify all ordnance free of explosive hazard, prior to turning into Defense Reutilization and Marketing Office (DRMO). Clearance, demilitarization, and disposal of ordnance items shall be accomplished in accordance with DoD 4160.21-M and 41602.21-M-1, NAWSCINST 8027.1D, and the Ammunition Explosive and other Dangerous Articles (AEDA) Program.

- (i) **Microspeech System.** The Contractor shall operate and maintain the Microspeech operations. The Contractor shall ensure Range Safety, by tracking movements on and off the Ranges; using Government-provided hardware and software. In addition, the Contractor shall perform software support services for modifications/upgrade to the Microspeech system.

Performance Based, Quantitative Terms. The Contractor shall perform Land Range Operations support, in accordance with the following criteria:

- (a) The Contractor shall deploy the necessary remote controlled mobile targets and stationary running engine targets, in accordance with the daily Range schedule.
- (b) The Contractor shall provide standby personnel to perform breakdown maintenance in case of a breakdown when remote controlled targets are deployed in support of tests (as required by the Range Test Schedule).
- (c) The Contractor shall maintain a "ready-line" and "dead-line" for target vehicles. All target vehicles on the ready line will be operational. All vehicles on the dead-line will be those that are not operational and are awaiting maintenance or parts.
- (d) The Contractor Microspeech operator shall ensure that all Range participants are positively cleared on and off the Ranges.

3.3.2. Instrumentation Systems

Instrumentation Systems installed at the Land Range provide tracking, control, and data recording in support of Range operations. These systems include: Kineto Tracking Mounts (KTM), KTM Electronics support trailers, Photo-Sonics/Cine-Sextant track mount trailers and mount hydraulics, M45 Tracking Mounts, astrodomes, mobile camera mounts (MCMs), Bowen CZR camera systems, Baker and Video Impact Scoring Systems, all types of film and video cameras, lenses, film magazines, Askania cameras, video recorders, monitors, switchers, infrared (IR) sensors, and related equipment and components. Maintenance records are maintained in an on-line database, which is to be accessible via the PR&F Network. The Contractor shall maintain all of these systems.

Specific Requirements. The Contractor shall schedule and perform preventive/scheduled maintenance, perform unscheduled maintenance and repair, and perform equipment modifications and fabrications, as follows:

- (a) **Preventive/Scheduled Maintenance.** The Contractor shall perform all maintenance to meet or exceed manufacturers' schedules and recommendations, as well as the Contractor's Maintenance Plan. The Contractor shall schedule all preventive/scheduled maintenance. Maintenance will be scheduled on a non-interfering basis with Range operations.
- (b) **Unscheduled Maintenance and Repair.** Unscheduled maintenance and repairs will be tasked by the authorized Government TA via the PR&F Network. During scheduled Instrumentation System operations, the Contractor shall monitor appropriate Range radio frequencies and provide stand-by personnel, who can be dispatched to perform the maintenance on-site. The Contractor shall also be required to provide unscheduled maintenance and repair services at off-center locations and for off-center customers, as directed by the TA or COR.
- (c) **Modification and Fabrication.** Upon the receipt of a written Work Order from the Government, the Contractor shall perform modification/fabrication to Instrumentation and Support Equipment, as necessary,

to meet test requirements, new standards, or lack of replacement parts. Historically, modification and fabrication Work Orders support the M-45 Tracking Mounts.

- (d) Maintenance Records. The Contractor shall record all work performed. Records shall contain a complete history of repairs and maintenance performed on each unit and a maintenance due date. This data shall be maintained in an on-line database, available for review by the TA and COR at all times via the PR&F Network.
- (e) The contractor shall provide for the full range of operation and maintenance of TSPI

tracking and fixed film and video instrumentation. These instruments include Kineto Tracking Mounts, M-45 Mounts, ALRITE LASERS and a large variety of film, video and IR instruments. The contractor shall, in accordance with the Government Test Plan, move the instruments to the required location for test support (requires a Class A California Drivers License), calibrate the instruments, operate the instruments to obtain the required TSPI photo documentary data, move the instruments to their designated storage point or to the required site for the next test, deliver the data to the required collection point (including proper marking of the data for classification and test designation) and perform on-site and in-shop diagnosis and repair of these instruments. In addition, the contractor shall construct, modify and install new instruments.

Performance Based, Quantitative Terms. The Contractor shall perform maintenance of Land Range Instrumentation Systems, in accordance with the following criteria:

- (a) All maintenance shall be performed on a non-interfering basis with Test Schedules.
- (b) All maintenance shall be completed in accordance with the due date specified in the Work Order.
- (c) Corrective maintenance not directly related to test support will be responded to within two (2) hours after notification.
- (d) When supporting Test Schedule and upon notification from the Test Controller that a system failure has occurred, dispatched stand-by personnel shall report on site within 10 minutes to make repairs.

3.3.3. Remote Power

Remote power systems provide transportable electrical power to Range Instrumentation and other systems at remote sites. These systems include generators, trailers, and photovoltaic systems. Generators are deployed in the field and staged from a central site. Photovoltaic systems are currently installed at Superior Valley, Etcheron Valley, KTM Site, and NATO Site. Contractor support is required to operate and maintain these systems, both on the Land Range and at other NAWC/deployed sites as required including the China Lake Electronic Combat Range (ECR), Point Mugu and San Nicolas Island. Maintenance records are maintained in an on-line database, with access over the PR&F Network.

The generator inventory averages approximately 200 generators/trailers and three 3 generator load banks. Generator ratings include 2.2, 10, 15, 20, 25, 50, 60, and 100 kW. The majority of these generators have been modified from their original as-manufactured state in order to continue operating or to meet specific NAWCWD needs.

Generators are maintained in three lines, based on operational status: Ready-Line, Dead-Line, and Reserve-Line. Ready-Line generators are maintained in a fully operational condition and available for deployment. Dead-Line generators are awaiting parts and repairs. The Reserve-Line consists of generators, which were operational, but did not require preventive maintenance or periodic running to maintain their operational status. The Contractor must have TA concurrence prior to placing any generator in reserve status.

Specific Requirement. The Contractor shall schedule and perform maintenance, operation, and deployment for the remote power systems, as follows:



- (a) **Generator Maintenance.** The Contractor shall schedule and perform all maintenance on generators, components, and trailers. This entails preventive, corrective, major/minor repair, and emergency maintenance. Specific tasks will include mechanical, electrical, electrical component maintenance/repair, and complete engine overhaul. The Contractor shall assign generators to Ready-Line and Dead-Line, based on the operational status. The Contractor must have TA concurrence prior to placing a generator in the Reserve-Line. During scheduled operations, the Contractor shall monitor appropriate Range radio frequencies and provide stand-by personnel, who can be dispatched to make repairs on-site.
- (b) **Generator Modifications.** The Contractor shall be required to maintain all equipment, as modified. The Contractor shall modify generators in order to meet end user performance requirements, such as 50-Hz operation to support Foreign Military Sales (FMS) items. The Government will provide prior approval for all Contractor-implemented modifications. The Contractor is required to document all equipment modifications and store documentation in the equipment's official record jacket.
- (c) **Trailer Maintenance.** The Contractor shall maintain all trailers, on which generators and load banks are mounted. This includes the maintenance and repair of tires, mechanical, and electrical devices, as well as periodic lubrication.
- (d) **Generator Deployment and Operation.** The Contractor shall operate generators in support of test operations and maintenance requirements. The Contractor shall select and deploy generators to test sites on NAWCWD Ranges and other off-center locations, in accordance with the daily test plans and Range schedule. The Contractor shall ensure that the generators deployed meet or exceed the support requirements. Prior to equipment installation, the Contractor shall ensure that the generators have an adequate Kw rating, proper phasing, proper cycling, and proper voltages at the point where equipment connection is made. The Contractor shall track generator deployment via an on-line GIS or similar system, allowing more effective planning and management.
- (e) **Photovoltaic (PV) Systems Maintenance.** The Contractor shall perform maintenance on PV systems and back-up generators located at NAWCWD/NAWS and off-center locations at no longer than 30-day intervals. All maintenance shall be performed in accordance with the manufacturers' recommendations, as well as the Contractor's Maintenance Plan.
- (f) **Maintenance Records.** The Contractor shall record all work performed. Records shall contain a complete history of repairs and maintenance performed on each unit and indicate the maintenance due date. This data shall be maintained in an on-line database, available for review by the TA and COR at all times via the PR&F Network. (CDRL A005)
- (g) **Hazardous Material Management.** The Contractor shall manage a HAZMAT site within the Remote Power compound, in accordance with paragraph 5.7.1 of this SOW.
- (h) The contractor shall conduct bank load testing on all sites at a minimum once (1) a month. However, if the KTM/generator usage indicates power fluctuations or anomalies, then the contractor shall conduct bank load testing on that particular site.

Performance Based, Quantitative Terms. The Contractor shall support Remote Power requirements, in accordance with the following criteria:

- (a) **Ready-Line:** a minimum of 92% of all generators shall be on the Ready-Line (fully operational and available for deployment).
- (b) **Dead-Line:** a maximum of 5% of the generator fleet total shall be on the Dead-Line at any given time.
- (c) **Reserve-Line:** up to 3% of the generator fleet may be kept in a Reserve-Line status. The Contractor must have TA concurrence prior to placing any generator in reserve status.

- (d) The Contractor shall have generators identified and operational one and one-half (1.5) hours prior to scheduled Range time unless specified otherwise by Test Plan or Scheduler. Some events will require Contractor to have generators identified and operational two (2) or more hours prior to test time.
- (e) Dispatched stand-by personnel shall report on site within ten (10) minutes to make repairs, when notified via the Test Controller that a generator failure has occurred.
- (f) Generator preventive maintenance shall be scheduled and performed at intervals not exceeding 150 hours of running time, unless otherwise specified by the TA and COR.

3.3.4. Meteorology

Meteorology and climatology tasks support test/training operations at the China Lake Land Range, Electronic Combat Range, Point Mugu Sea Range, White Sands Test Range, and other operations, and all conducted on and off the NAWCWD Ranges. Meteorological coverage for NAWCWD includes atmospheric measurement and reporting, weather observation, weather forecasts, weather briefings, and hazardous weather warnings, as well as climatology data collection and consolidation. Many meteorology tasks are performed in concert with the NAWS Air Traffic Control (ATC) Division. Meteorological observation data is disseminated to users via the PR&F Network on the Contractor-managed Geophysics Web Page. Contractor support is required to provide meteorology services, as well as to operate and maintain the meteorological systems.

Specific Requirements. The Contractor shall schedule and perform meteorology services for NAWCWD, as follows:

- (a) Weather Watch. During all hours of airfield flight operations, the Contractor shall maintain a continuous weather watch, by providing a certified weather forecaster/weather observer at the airfield.
- (b) Terminal Aerodrome Forecast (TAF). The Contractor shall prepare and issue TAFs for NAWS Airfield, in accordance with OCEANCOMINST 3143.1F. TAFs shall be issued and transmitted on longline weather networks each Range workday at 1500Z, 2100Z, and 0300Z; TAFs will be valid for a 24-hour period. The Contractor shall retain copies of TAFs for a minimum of one year.
- (c) Notices to Airmen (NOTAM). The Contractor shall initiate, requisition, and disseminate NOTAMS in concert with NAWS ATC Division personnel. NOTAM services will be governed by OPNAVISNT 3721.20B.
- (d) Flight Weather Briefings. The Contractor shall prepare and conduct flight weather briefings, in accordance with OCEANCOMINST 3140.4B, 3140.14D, 3142.1 and FLENUMMETOCINCST 3710.1B. The Government estimates an average of 15 flight weather briefings per day. The Contractor shall complete flight weather briefs using a VFR (Visual Flight Rules) Stamp or Flight Weather Brief Form DD-175-1. Flight Weather Briefs must be approved by the forecaster providing the brief. Some cross-country flights may require data from the Optimum Path Aircraft Routing System (OPARS). The Contractor shall complete the VFR Briefing Log (MET FORM 3145/1) for all flights cleared, using the VFR stamp. A DD-175-1 shall be completed for all IFR (Instrument Flight Rules) briefs. The Contractor shall retain a copy of all Flight Weather Briefs for a minimum of one year.
- (e) Surface Weather Observations. The Contractor shall conduct, record, and disseminate surface weather observations in support of Range operations. Observations, procedures, and schedules are provided in OFCM FCM-H1-1995 and NMOCINST 3141.2. Normal hours of observation are from 0500L to 2230L each Range test day, and 1400L to 2230L on Sunday. During airfield flight operating hours and on Range test days, the Contractor shall disseminate surface aviation weather observations on communication networks, both longline and local. The Contractor shall maintain a log containing all aviation weather observations on CNMOC Form 3140/12 (Rev 1/96).

- (f) Upper Air Observations. The Contractor shall conduct, record, and disseminate upper air observations to meet Daily Range Test Schedule requirements. Procedures and computer-generated Standard Range Format for upper air soundings are available in OFCM FCM-H3-1991 and NAWCWPNS TS 98-22. The Contractor shall provide upper air sounding in the "Weather" fileserver, Geophysics Web Page, and the Range Integration Processing System (RIPS). The Contractor shall track and record data on all other soundings to balloon burst.
- (g) Meteorology Databases. The Contractor shall maintain meteorology databases for upper air and surface observations collected on the Land Range. Currently, these are two separate databases.
- (h) Land Range Weather Forecasts. The Contractor shall provide daily weather forecast for the Land Range each Range workday at 0800L, 1300L, and 2000L. The forecast period shall be for 48 hours with a 72-hour extended outlook. Weather forecasts shall be provided to users over the PR&F Network, as follows: E-mail at 0800L and 1300L; Geophysics Web Page at 0800L and 1300L; Telephone at 0800L, 1300L and 2000L; as well as daily face-to-face briefings in the office. The Contractor shall retain a copy of the computer-generated Land Range Weather Forecast for a minimum of one year.
- (i) Daily Climate Report. By 0800L each Range workday, the Contractor shall issue the Daily Climate Report, as part of the Land Range Weather Forecast. The Contractor shall provide the Daily Climate Report on the PR&F Network, via E-mail or a posting on the Geophysics Web Page. In addition, the Daily Climate Report shall be recorded as part of the Telephone Forecast at 0800L.
- (j) Monthly Climate Report. By the 5th day of each month, the Contractor shall prepare and issue climate reports from data collected by the core surface weather stations and upper air soundings launched at Tower-8. The Contractor shall post reports on the weather server and the Geophysics Web Page.
- (k) Data Archival. By the 5th day of each month, the Contractor shall submit upper air and surface observations to the Fleet Numerical Meteorology and Oceanography Detachment (FNMOD) in Asheville, NC for archival. Observations shall be in the format specified by FNMOD. The Contractor shall submit Monthly Records Transmittal (CNMOC FORM 31402DF) with the observations, along with the Upper Air Height Termination Report (CNMOC 3140-3DF).
- (l) Hazardous Weather Warnings/Advisories. The Contractor shall prepare and issue Hazardous Weather Warnings/Advisories, in accordance with NAWSCINST 3140.1. The Contractor shall retain a copy of the computer-generated Warning/Advisory for at least one (1) year. The Contractor shall also advise NAWC/NAWS command and Range control personnel or existing and anticipated weather conditions, including recommendations on readiness condition in the event of hazardous or dangerous weather.
- (m) Weather-Related Computer Software. The Contractor shall maintain, modify, and install computer software upgrades for the collection, dissemination, and quality control of meteorology and climatology data. This may include Government or Commercial Off-the-Shelf (COTS) software.
- (n) Computer Software Development. Upon receipt of periodic written Work Order from the Government, the Contractor shall develop or upgrade software and database applications, in accordance with CMU/SEI-93-TR-24, as applicable. The software shall be for the purpose of analyzing meteorology and climatology data, storing and manipulating surface and upper air data, and maintaining configuration management of documentation/procedures, which are necessary for the operation and maintenance of assigned equipment and software resources.
- (o) Equipment Maintenance. The Contractor shall operate and perform preventive/corrective maintenance on all equipment, computers, and local networks used to observe, collect, report, store, control quality, and disseminate meteorology and climatology data. The Contractor shall provide parts, materials, supplies, and test equipment, as needed, for the effective operation and maintenance of all meteorological equipment.

- (p) **Training/Certification.** The Contractor shall provide certified Meteorology trainers. Upon the receipt of a written Work Order from the Government, the Contractor shall provide training on weather data collected or provided under this delivery order to users of the various meteorology data products. The Contractor shall maintain an active internal training program for professional and career development of employees to ensure that they remain current in meteorology. As part of the overall certification program, all Contractor forecaster/observer personnel must satisfactorily complete applicable portions of NAVEDTRA 43203-C, NAVEDTRA 43204-D, and the locally-developed Personnel Qualification Standard (PQS) for Handar Weather Stations and the Tethersonde System.
- (q) **Station Information File.** The Contractor shall submit CNMOC Form 3140 1DF to FNOMD Asheville when changes occur. If no changes occur, the Contractor shall submit the form each year by January 10th.
- (r) **Weather Forecasters Handbook.** The Contractor shall maintain the Forecasters Handbook, in accordance with METOCOMINST 3140.2E. As a minimum, this Handbook will be updated when changes occur.
- (s) **Travel.** The Contractor shall provide presentations and briefings (activity report) to the Range Commanders Council – Meteorology Group (RCC-MG), and, when requested, to the American Meteorology Society. The Contractor shall prepare and provide a written travel report to the Technical Assistant within seven (7) working days after completion of the trip.
- (t) **Test Support.** The Contractor shall coordinate and make recommendations for test support with Test Managers and provide signatures for weather support on Test Plans.

Performance Based, Quantitative Terms. The Contractor shall perform Meteorology support, in accordance with the following criteria:

- (a) Meteorology data shall be provided to customers, as required in test schedules (weekly/daily), or as requested by the TA.
- (b) Surface and upper air observations shall be at least 98% accurate. Weather Forecasts shall be at least 90% accurate. Each work day, previous work day forecast accuracy will be verified by the Contractor.

3.3.5. Communications

The NAWCWD Ranges include a vast geographic area and numerous complexes, with robust communication requirements. Communication systems provide for command and control of test participants, Range assets, Range Safety, test data collection, and administrative control of the various sites. NAWCWD communication systems include: microwave systems, VHF and UHF radio systems, VHF-FM radio systems, light wave transmitter/receiver systems, timing systems, Flight Termination Systems (FTS), video distribution and control equipment, multiplexing equipment, digital switching systems, cryptographic systems, Communication Control Systems, Range telephone, intra-Range voice systems, audio recorders, copper and fiber-optic cable and cable facilities, Command and Control (C2) systems, video target scoring systems and subsystems, and miscellaneous systems integral to the communications support mission, as well as the associated interface equipment.

Specific Requirement. The Contractor shall provide installation, repair, overhaul, preventative and corrective/emergency maintenance, and operational support to the NAWCWD Communications Systems and the complexes with which these systems interface.

- (a) **Repair and Overhaul.** Upon the receipt of a written Work Order from the Government, the Contractor shall repair and overhaul all Communications equipment, as it is turned in to the repair facility. The Contractor shall make repairs, calibrations, identify the cause of the defect, document required time to complete the repairs, provide Quality Control, and return the equipment to service via Government contact.
- (b) **Preventative Maintenance.** The Contractor shall schedule and perform maintenance on Communications equipment, in accordance with manufacturers' specifications and the Contractor's Maintenance Plan.

- (c) **Corrective/Emergency Maintenance.** Upon the receipt of a written Work Order from the Government, the Contractor shall provide Corrective/Emergency maintenance support on communications systems, in order to ensure total system readiness in support of the Range test schedule. The Government shall provide Emergency Maintenance Request trouble call assistance and maintain a trouble call database to document emergency/corrective maintenance. The Contractor shall document the type of equipment/system being repaired, cause of the defect, and the time required to complete the repairs or return the equipment to service.
- (d) **Installation and Checkout.** Upon the receipt of a written Work Order from the Government, the Contractor shall install communications equipment and systems in accordance with Government-Furnished Installation Design Plans (IDPs), Government-approved Contractor-furnished IDPs and acceptance tests, as well as Task Orders issued by the TA. The Contractor shall follow Navy installation standards and practices, as identified by the TA in the tasking statement. During the installation, the Contractor shall maintain an accurate record of any and all deviations from the IDP. The Contractor shall provide these "redline" changes to the IDP design personnel upon completion of the installation. Upon completion of each installation, the Contractor shall perform equipment and system acceptance tests in order to verify the operational capability of the installed system(s).
- (e) **Operational Support.** As required by each Work Order, the Contractor shall provide technicians to provide real-time support of communications systems during Range operations.
- (f) **Communication Center.** The Contractor shall provide personnel with experience in all major voice, video, telemetry, and data networks [e.g., Time Space Position Indication (TSPI)], and their related remote sites. Personnel shall be required to identify, verify, and reroute (patch), as necessary, all of the above systems, as requested by various customers. The Contractor shall operate the CSTI Digital Access Cross-connection Switch (DACs) Windows workstation software and related channelization nomenclature. The Contractor shall operate the microwave hub, related remote site locations, and perform radio procedures with field personnel and Metric video. The Contractor shall provide installation, configuration, and operation support to the Command Destruct (CD) control chassis, and flight termination Command Destruct checkout procedures.
- (g) **Flight Termination.** The Contractor shall provide support in the tuning, loading, and operation of the remote flight termination transmitters. Personnel supporting FTS/CD tasking shall be familiar with Command Destruct operational protocols and checkout procedures.
- (h) **Timing Field Support.** The Contractor shall provide remote camera and tracking mount support. Personnel supporting remote camera/KTM operations must be familiar with the CZR-1 camera systems (Bowen camera systems) and KTMs, camera timing setups, and camera control procedures.
- (i) **Timing Center.** The Contractor shall support configuration and operation of the cesium atomic clocks, time code generators, and timing distribution systems, as well as the operation of the camera start tone control system. Personnel must be familiar with Microspeech test operations procedures and oscillograph chart recorders for aircraft bomb release tones.
- (j) **Design Changes.** In accordance with a written Work Order from the Government or the applicable test plan, the Contractor shall perform equipment field changes, design changes, system modifications, installation site surveys, equipment fabrications, and configuration management surveys. Design changes may be Government and/or Contractor-provided; however, Contractor design changes must be approved by the Government.
- (k) **VHF-FM Mobile Radio Installations.** Upon the receipt of a written Work Order from the Government, the Contractor shall provide installation, removal, and relocation of mobile ground-to-ground radio systems.
- (l) **Support Equipment.** The Contractor shall establish and maintain an inventory of installation and repair parts required to perform installation and maintenance services. The Contractor shall maintain an accurate

database of parts and material, which shall be available to the TA via the PR&F Network. When required, the Contractor, with TA approval, shall purchase material to replenish and maintain the installation parts stock.

- (m) Maintenance and Repair Records. The Contractor shall document all tasks in on-line database(s). Maintenance records shall be maintained by the Contractor to indicate when maintenance is due. The Contractor shall maintain a database, listing items repaired and status of items in shop, and update the database as changes occur. These databases shall be available to authorized Government personnel via the PR&F Network.

Performance Based, Quantitative Terms. The Contractor shall operate and maintain communications systems, in accordance with the following criteria:

- (a) Preventive maintenance shall be performed so as not to interfere with Range test schedules.
- (b) Operational Support. Communications systems, including switching and CD systems, shall be set up and fully operational no later than two (2) hours before the applicable operation.

3.3.6. Frequency Management and Monitoring

The NAWCWD Frequency Management Offices provide planning, management, monitoring, reporting, and quality control of Radio Frequency (RF) emissions on the Pacific Ranges. The China Lake Frequency Management Office (CLFMO) is located in the Range Control Complex (RCC). The Point Mugu Frequency Management Office is located in Building 53A. These offices review and approve the Pacific Ranges and Facilities test plans, analyze emitter parameters, maintain records, and perform configuration management. In addition, the Land Range at China Lake maintains two kinds of Frequency Monitoring capabilities: fixed Frequency Monitoring (FM) Station (also referred to as FM Hill or Lark Hill) and Mobile Frequency Monitoring. These facilities consist of passive receiver systems, which enable the operators to maintain continuous surveillance of the RF spectrum to monitor the operation of Land Range emitters, or temporary surveillance of other non-Land Range areas. The Frequency Monitoring capability provides a quality control that observed signals are within tolerances of frequency, bandwidth, RF, and power of the Pacific Ranges/NAWCWD allocations. The facilities also provide data validation and feedback for test data analysis. The mobile systems provide mobile frequency monitoring support for test projects, both within and beyond NAWCWD boundaries. Contractor support is required for the operation and maintenance of these facilities.

Specific Requirements - Frequency Management. The Contractor shall perform operation and maintenance of the Frequency Monitoring Station and the Mobile Monitoring Vans, as follows:

(a) Frequency Management. The Contractor shall support the Frequency Management Offices in coordinating approval or disapproval of frequency requirements and fixed/mobile frequency test support requests within and beyond the NAWCWD boundaries. The Contractor shall liaison daily with the Frequency Management Office and the Range Scheduling Office concerning the daily/weekly schedules. As required, the Contractor shall forward documentation to the national level via the [Navy Marine Corp Spectrum Office (NMCSO) San Diego] or the Western Area Frequency Coordinator (WAFC), China Lake, for review and approval. The Contractor shall enter frequency allocation/assignment data into the China Lake Frequency Manager's computer databases.

(b) Program Documentation Review. The Contractor shall review test plans to ensure that proper frequency assignments exist for the project. The Contractor shall recognize potential operational problems and advise the station frequency manager and projects accordingly. In addition, the Contractor shall review new program documentation and program changes to identify present and future frequency allocation and assignment requirements.

Specific Requirements – Fixed Station and Mobile Vans O&M (China Lake Only). The Contractor shall perform operation and maintenance of the Frequency Monitoring Station and the Mobile Monitoring Vans as follows:

(a) Frequency Monitoring Stations and Mobile Monitoring Vans - Operation and Maintenance. The Contractor shall operate and maintain the FM Station and the Mobile Monitoring Vans, in accordance with Government-accepted ,



Contractor-written Standard Operating Procedures (SOPs). The Contractor shall provide continuous surveillance of the RF spectrum through operation of receivers to ascertain that observed signals are within tolerances of frequency, bandwidth, RF, and power assignments. The Contractor shall coordinate use of the Mobile Monitoring Vans through the Frequency Management Office. The Contractor shall provide a security escort for temporary personnel authorized by the Government working in the FM or related facilities. The Contractor shall maintain SOPs and maintenance records on a database, readable and accessible by authorized Government personnel via the Network. For the Mobile Monitoring Vans, the Contractor shall be responsible for all equipment and vehicle maintenance.

(b) Equipment Maintenance and Upgrades. The Contractor shall remove, install, operate, and maintain all electronic monitoring and test support equipment at the Frequency Monitoring station and the Mobile Monitoring Vans. Work shall be coordinated with the Frequency Management Office and performed on a not-to-interfere basis with daily test schedules.

(c) Safety/Two-Man Rule. All Contractor personnel shall conform with NAWCWD Safety rules as described in this SOW. Frequency Monitoring personnel shall observe the two-person safety rule when working hazardous conditions.

(d) Configuration/Maintenance Data. The Contractor shall maintain historical data including, as a minimum: equipment configuration, status, system parameters, repair date, and date of preventive maintenance.

(e) Monthly Frequency Survey. The Contractor shall provide a monthly frequency survey of the Land Range and local areas by providing surveillance and/or monitoring, using both the Monitoring Station and Mobile Monitoring Vans. The survey shall be performed in accordance with the schedule provided by the Frequency Management Office, TA, or other designated Government representative.

(f) Status Reporting. The Contractor shall prepare written quarterly reports on the operational condition of the RF Spectrum Monitoring System, peripheral/display equipment, and other support equipment associated with frequency monitoring. Unclassified results will be made available to the Frequency Management Office via the Network. Classified reports shall be maintained on site by the Contractor for further disposition in accordance with Government direction. The Contractor shall record and maintain an electronic daily log of Radio Frequency (RF) spectrum activity for pre/post-test analysis and for project reference. The Contractor shall make daily logs available to authorized Government personnel via the Network.

(g) Test Support. The Contractor shall provide pre-test, real-time, and post-test measurement of selected target parameters to indicate at a minimum, Pulse Width (PW), Pulse Repetition Frequency (PRF), and Pulse Repetition Interval (PRI).

(h) Interference Measurement. The Contractor shall attempt to detect and locate sources of RF interference. The Contractor shall immediately report all interference incidents to the China Lake Frequency Management Office (CLFMO) for resolution.

(i) Computer Software Development. Upon the receipt of a written Work Order from the Government, the Contractor shall develop or update software to improve the data retrieval processes, analyze data, document/report capabilities, or maintain configuration management.

Performance Based, Quantitative Terms: The Contractor shall perform Frequency Monitoring support, in accordance with the following criteria:

(a) Maintenance shall be performed on a non-interfering basis with daily testing schedule.

(b) Operational logs will be made available within one and one-half (1.5) hours after the conclusion of the test.

(c) All incidents of detected interference will be reported to the CLFMO immediately, without delay.

(d) Other reports or surveys will be made available within 5 working days after the end of the month or quarter or period of performance.



(e) Lark Hill is available to surrounding DoD facilities for frequency DF interference on a Not to Interfere Basis only. Monitoring personnel are to direct any such requests to the CLFMO.

3.3.7. Etcheron Valley

The Etcheron Valley Radar Cross Section (RCS) complex primarily consists of the South Forty complex, Parrot Peak, the Ranch House, North Forty complex (including tilt deck and salt water deck), the Darwin Wash complex, and the outlying areas surrounding these locations. Irregular and extended work hours are common; real time and short notice changes are frequent.

Specific Requirements: The Contractor shall schedule and perform maintenance, operations, test, and target support to the Etcheron Valley Complex, as follows:

- (a) **Vehicles and Equipment.** The Contractor shall provide the operation, maintenance, parts/materials, and maintenance scheduling of the Etcheron Valley vehicles/heavy equipment, generators, and test support equipment, including the Tilt Deck and Bounce Strip test sites (at 700, 2000, and 4000 feet). All maintenance shall be performed in compliance with the Contractor's Maintenance Plan.
- (b) **Construction.** The Contractor shall construct, modify, and position test related items that require various trade skills, such as painting, welding, electrician, carpentry, mechanics, equipment operations, and masonry. The Contractor shall document work and shall produce rough drawings for any construction, mechanical, electrical, or electronic work that constitutes a change/addition to the existing documentation of Etcheron Valley equipment. Construction/fabrication may consist of radar cross section targets, antenna towers, positioners, Global Positioning System (GPS) sites, ground-based rotators, and pylons. Application of Radar Absorbing Materials (RAM) is also required.
- (c) **Tilt Deck Hydraulic System.** The Contractor shall perform preventive, corrective, and emergency maintenance and repair on the tilt deck hydraulic system, which is in use at the Etcheron Valley RCS Measurement facility.
- (d) **Bounce Strip, Ranges, and Roads.** The Contractor shall perform all maintenance and repair on the 4,000-foot bounce strip, Bi-Static Range, and access roads at the South Forty. This support includes grading, rolling, compacting, and repairing erosion and surface degradation.
- (e) **Target Handling.** In accordance with the Etcheron Valley test schedule, the Contractor shall provide for target handling during test periods. This task includes loading, unloading, placement, and positioning of test items during the arrival, testing, and departures of Range customers.
- (f) **Equipment Operation.** Contractor personnel shall operate crane, blade, forklift, bucket truck, or other types of equipment in support of Range improvements, modifications, maintenance, and Range test support operations. Personnel operating heavy equipment, material/weight handling equipment, and personnel lifts will be certified by the Contractor, in accordance with the Contractor's Certification Plan. All crane operation will be in compliance with NAVFAC P-307.

Performance Based, Quantitative Terms: The Contractor shall perform Etcheron Valley support, in accordance with the following criteria:

- (a) Preventive maintenance, upgrades and improvements shall be scheduled and performed on a non-interfering basis with Range operations and test schedules.

3.3.8. HANGAR II TEST CUSTOMER SUPPORT

The contractor shall provide various support functions to test customers coming on-board NAWS/NAWC in order to accommodate use of the Range Facility at Hangar II and in accordance with Range Test Plans.

The contractor functions shall include:

- Assignment of hangar space and work sites for customer equipment and test articles
- Coordination with appropriate NAWS/NAWC Departments for
 1. Communications devices, and services
 2. Minor building and facilities maintenance and repair.
 3. Handling, storage, and disposal of hazardous waste generated by test customers at the facility
 4. Building security
- Off loading test equipment and test articles
- Advise test customers on
 1. Hazardous waste procedures
 2. Building security procedures

3.3.9 SAN NICHOLAS ISLAND (SNI) TEST CUSTOMER SUPPORT

The contractor shall provide various support functions to test customers coming on-board NAWS/NAWC in order to accommodate use of the Range Facility at SNI and in accordance with Range Test Plans.

- Assignment of hangar space and work sites for customer equipment and test articles
- Coordination with appropriate NAWS/NAWC Departments for
 1. Communications devices, and services
 2. Minor building and facilities maintenance and repair
 3. Off loading test equipment and test articles
- Advise test customers on
 1. SNI Test Procedures
 2. Range Procedures
- Manifesting of "Range: personnel to/from SNI
- Manifesting of "Program" personnel to/from SNI



- Tour Guide for SNI
- Work closely with SNI Coordinator and act as SNI Coordinator in his absence
 1. Handling, storage, and disposal of hazardous waste generated by test customers at the facility.
 2. Building Security

3.4 Point Mugu

The NAWCWD Sea Range is a fully instrumented air, surface, and subsurface Range for test and training evolutions. The Sea Range is located off the California coast in the Pacific Ocean. The Sea Range can support a variety of aerial and seaborne targets in support of Range user requirements. Range control and instrumentation sites for the NAWCWD Sea Range are located at NAWS Point Mugu and remote sites on the nearby Channel Islands. Additional Range tracking and data collection capabilities are provided by airborne assets operating from Point Mugu.

The Contractor shall operate and maintain NAWCWD Point Mugu Sea Range sites and equipment, as well as support Range scheduling and billing functions. Site and equipment operation and maintenance primarily concerns the mechanical, electrical, electronic, and computer systems that provide command, control, remote sensing, tracking, Range Safety, communications, data collection, display, and analysis for Sea Range operations. Operation and maintenance will be in accordance with the Contractor's Management Plan and attached Maintenance Plan. The Point Mugu portion of the Contractor's Maintenance Plan will be incorporated from the existing Maintenance Engineering Plan Procedures (MEPP), Parts I and II. These services may be performed on the NAWCWD Ranges and related sites on the Channel Islands, at NAWS sites, or off-site to support NAWCWD operational requirements. Specific tasks are addressed in the following paragraphs.

3.4.1. Operations Scheduling and Billing

Point Mugu Sea Range scheduling, reporting and billing functions are supported by the Range Automated Scheduling System (RASS), the Range Billing System (RBS), and the Test Range Information Management System (TRIMS). Range operational information is provided to the Program Identification Data System (PIDS), and Program Identification Code (PIC) system in accordance with COMPMTCINST 9302.1A. Range operational information is also provided for resources (RES), and historical databases.

Specific Requirements. The Contractor shall provide scheduling and billing support for the Sea Range at Point Mugu, as follows:

- (a) Sea Range Operations Scheduling. The Contractor shall assemble, format, and deliver the Weekly Operational Forecast and update the Daily Operational Schedule on-line. The Contractor shall deliver summary schedule data monthly. (CDRL A006)
- (b) Sea Range Operations Reporting. The Contractor shall generate, maintain, and update operational resumes, including the Daily, Weekly, and Monthly Resumes. The Contractor shall maintain historical database(s) and provide operational summary data to related systems. When tasked, the Contractor shall generate unique management reports. (CDRL A007)
- (c) Financial Tracking and Billing. The Contractor shall generate and deliver Range Schedule and Billing Data files. The Contractor shall execute the Sea Range Operations Billing Report and distribute weekly. The Contractor shall deliver Cost Distribution Adjustments to the requesting customer. (CDRLs A006, A008)
- (d) The contractor shall participate in the forecast, changes, and work with Government personnel to resolve conflicts to the daily and weekly schedule. The contractor shall make changes as requested by customers via telephone calls and or e-mail.



Performance Based, Quantitative Terms. The Contractor shall provide Sea Range management and administrative services, in accordance with the following criteria:

- (a) Operations schedules shall be generated on a daily basis.
- (b) The Contractor shall update daily schedule immediately upon notification of changes to mission requirements

3.4.2. Real Time Interface Center

The Real Time Interface Center (RTIC) provides real-time capture and display of Sea Range instrumentation data during mission operations. Real Time products are displayed in the Operational Control Rooms to support mission command and control, tracking of participants, target operations, Range Safety, and evaluation of test objectives. The RTIC houses the Interfacing portion of the Range Data System (RDS), which includes the Real-time Host Instrumentation Interface (RHII), the ITCS Interface Converter (IIC), the Serial Personal Computer (SPC), and the Instrumentation & Security Console (ISC). The RTIC also houses the Sensor Positioning and Readback System (SPARS) and encryption units, the Real-time Information Distribution Environment (RIDE), the High Resolution Video Distribution Switch (HRVDS) controller, the High Speed Data Switch (HSDS), Advanced Combat Directional System/Naval Tactical Data System (ACDS/NTDS) interface components, and a VAX mainframe computer system.

Specific Requirements. The Contractor shall operate and maintain all RTIC systems as follows:

- (a) Operation Planning. The Contractor shall coordinate RTIC support with Government and Contractor Range personnel, based on the applicable Range Operations Directive and Instrumentation Plans. The Contractor will ensure that real-time data and display requirements are defined and that the appropriate interfaces are developed to obtain optimum results for Range operations and our customers
- (b) Operation Support. The Contractor shall operate all RTIC systems necessary for each scheduled Range operation. The Contractor shall allow sufficient time to prepare the equipment for operational support, in accordance with the operational setup procedures and the Range Schedule.
- (c) Maintenance. The Contractor shall provide preventive and corrective maintenance, as required in the Maintenance Engineering Plan, to maintain RTIC equipment.
- (d) Maintenance Records and System Documentation. The Contractor shall prepare and maintain preventative and corrective maintenance logs, as well as maintain and update system documentation. The Contractor shall submit the RTIC Operational Status. (CDRL A007)
- (e) Uninterruptible Power Supply (UPS). The Contractor shall ensure the RTIC UPS is functioning consistent with the requirements of the Range instrumentation and computer systems in the RTIC. The Contractor shall provide support for the maintenance of the Range Operations air conditioning systems.
- (f) RTIC Engineering Support. The Contractor shall provide RTIC support to Government personnel, who require the system to perform hardware/software engineering development, testing, and checkout.
- (g) Information Systems Security. The Contractor shall provide for Information Systems security in the RTIC, in accordance with NAVAIRINST 5239.2 and DoD 5220.22-M. The Contractor shall utilize the Range Operation Support Requirement Worksheet, HRVDS Distribution Authorization Sheet, and the GRIDS Operational Authorization Sheet, in accomplishing the information security function.

Performance Based, Quantitative Terms. The Contractor shall perform maintenance of Sea Range Instrumentation Systems, in accordance with the following criteria:

- (a) All preventive maintenance shall be performed in accordance with the Contractor's Maintenance Plan on a non-interfering basis with daily test schedule.
- (b) Pre-Operation Setup. RTIC power-up, diagnostics and system checks shall commence no later than three (3) hours before a scheduled mission.
- (c) The system interfaces shall be set up, the system fully tested and operationally ready no later than one (1) hour prior to mission start time.

3.4.3. Integrated Target Control System

The Integrated Target Control System (ITCS) allows remote tracking and control of aerial and surface targets, via a radio-frequency data link. The system allows multiple targets to be flown together. Command data is generated for the target, and telemetry data is received for display at the Target Control Consoles (TCC). The ITCS requires pre-mission and post-mission checkouts. During operations, ITCS real-time data is recorded on magnetic tape. This data may be played back immediately during post-mission periods at the direction of the Test Conductor. ITCS mission data tapes are provided to the appropriate group for data reduction, analysis, and storage. The ITCS is installed at the NAWCWD Sea, Land, and White Sands Ranges, amongst others.

Specific Requirements. The Contractor shall provide maintenance and operational support for the ITCS system, not including actual target control, as follows:

- (a) Preventive/Scheduled Maintenance. The Contractor shall perform all scheduled maintenance on the assigned ITCS components and related equipment at local and remote sites, in accordance with the Contractor's Maintenance Engineering Plan and other applicable documents.
- (b) Daily System Checks. The Contractor shall perform and document daily systems checks to ensure that the ITCS is operationally ready. These checks shall be performed every day of the normal work week and on other days when ITCS target missions are scheduled. Daily checks shall be accomplished in accordance with equipment and maintenance manuals. If serious malfunctions are detected during the daily system checks, the Contractor shall notify ICC/Range Scheduling, the TA, and the COR of the status and the estimated time to repair the failed item. The Contractor shall complete a daily ITCS Operational Support Status report and submit a monthly report. (CDRL A007)
- (c) Corrective/Unscheduled Maintenance. The Contractor shall perform unscheduled maintenance and repairs on assigned systems and applicable components at the local and remote sites, in accordance with ITCS system and component technical publications, applicable directives, and instructions. If serious malfunctions are detected in the equipment, the Contractor shall notify ICC/Range Scheduling, the TA, and COR of the status and the estimated repair time.
- (d) Maintenance Reporting. Each maintenance action shall be reported through the submission of a RIMP Maintenance Data Form. The Contractor shall collect, document, and distribute maintenance and repair data for assigned systems and applicable components at the local and remote sites on a weekly basis. A current Weekly Maintenance Status Report shall be submitted one working day after the close-of-business of the last day of the week. Reports shall be submitted to the COR and, upon approval, forwarded to the technical Cognizant Field Activity (CFA) and the Naval Warfare Assessment Division. The Maintenance Status Report includes the results of daily/other operational checks, maintenance actions status, and Range Instrumentation Maintenance Program (RIMP) reports. (CDRLs A009 and A00A)
- (e) Operations Planning. The Contractor shall plan, coordinate and schedule support of operational ITCS missions in accordance with Range schedule and Range Instrumentation Plan(s). Planning considerations include number of targets, mission duration and timing, scheduled local and remote site equipment, required post-mission support, and possible anomalies that could affect ITCS/target performance. As required, a qualified Contractor technician shall attend all pertinent briefs and planning meetings involving

ITCS, in order to provide required technical assistance. The Contractor shall provide software engineering services to support any required software changes.

- (f) Operations Support. The Contractor shall operate ITCS and related equipment at the local and remote sites during scheduled target operations. The Contractor shall be prepared to respond to emergent requirements and make real-time corrections to system configuration to ensure mission success
- (g) Mission Record Keeping. The Contractor shall collect and maintain operational records of all pertinent mission details, as required by the Range Operations Directives. The Contractor shall record all missions and deliver the required information at the end of each operation.
- (h) Pre-Operation System Check. The Contractor shall conduct pre-operation systems checks on the systems, in accordance with Range Instrumentation Plans and ITCS equipment and maintenance manuals. System checks will include local site computer readiness, tracker status, TCC checkout, and may include remote site boresight and acquisition tests.
- (i) Post-Operational Equipment Checks. The Contractor shall perform post-operational equipment checks (daily checks) and power down local and remote sites, in accordance with ITCS equipment and maintenance manuals. Before power down, the Contractor shall investigate any anomalies that may have occurred with the ITCS or target(s).
- (j) Post-Mission Playback. The Contractor shall record ITCS data during each mission and play back recorded data at the completion of a mission, as required. Upon completion of the post-operation support, the Contractor shall provide the mission data tapes to the appropriate data services section for data extraction and storage. The Contractor shall ensure that sufficient magnetic tapes are available to record ITCS operations. As required, the Contractor will purchase new tapes or clean and degauss existing tapes.

Performance Based, Quantitative Terms. The Contractor shall perform maintenance of Sea Range ITCS systems, in accordance with the following criteria:

- (a) All preventive maintenance shall be performed on a non-interfering basis with the daily test schedule.
- (b) Pre-Operation System Check(s) shall commence no later than two (2) hours prior to the scheduled mission. Pre-Operation System Checks shall be completed no later than one (1) hour prior to mission start time.
- (c) Operations Support. The Contractor shall respond immediately to all relevant mission requirements.
- (d) Post-operation mission checks and power down of ITCS sites shall be completed within one (1) hour after mission completion. Investigation of ITCS/target anomalies shall also occur during this hour.

3.4.4. Multilateration Operations Control System (MOCS)

The MOCS is located in Building 53A, at Point Mugu, CA, and houses three Time, Space, Position, Information (TSPI) tracking systems. These systems are the R³ Tracking System (RTS), the R³ Data Link Global Positioning Center (RDL GPS), and the Data Link System Global Positioning System (DLS GPS). The first system is ground-based multilateration cooperative tracking system. The last two of these systems provide highly accurate space-based GPS multilateration worldwide navigation and real-time present position, velocity, and altitude tracking data. All three methods use a cooperative, multilateration tracking subsystem, which provides multi-participant data collection and target drone control on the Point Mugu Sea Test Range.

Specific Requirements. The Contractor shall provide maintenance and operations training/demonstration support for the MOCS system and related equipment at Point Mugu and remote sites, as follows:



- (a) Preventive Maintenance. The Contractor shall perform preventive maintenance on all mechanical, electronic, and electrical equipment, in accordance with the original equipment manufacturers' literature and the Contractor's Maintenance Plan.
- (b) Corrective Maintenance. The Contractor shall perform corrective maintenance when failure or degraded performance is evidenced, in accordance with the Contractor's Maintenance Plan. Corrective maintenance may require removal, troubleshooting, disassembly, repair, reassembly, calibration, reinstallation, verification, and certification, depending upon the extent of the failure. The Contractor shall inform the COR and TA whenever the operational status of the equipment changes. The MOCS daily status report displays the status of all equipment.
- (c) Modification of Equipment and Techniques. The Contractor shall propose and perform modifications/improvements to MOCS equipment, procedures, and techniques. Equipment modifications and application of Contractor originated techniques shall be implemented only after the approval of the TA.
- (d) Maintenance Records. The Contractor shall maintain a log for all maintenance actions on each system. The maintenance log shall be made available upon request by the TA or COR. The Contractor shall prepare and submit the MOCS Monthly Status Report. (CDRL A007)
- (e) Training and Demonstrations. The Contractor shall provide MOCS training and demonstration support to Government and Contractor personnel, in support of operational/maintenance requirements. Operational training includes all phases of the operation of the MOCS computers, systems, equipment, and support peripherals. Specifically, this training shall include turning equipment on, performing diagnostic checks, equipment and system calibrations, as well as testing, pre-operational checks, real time Range operations, data archival, system backups, housekeeping functions, and post-operational checks.
- (f) UPS Maintenance. The Contractor shall ensure that the Uninterruptible Power Supply (UPS), power distributors/conditioners, and air handlers are functioning consistent with the requirements of the Range instrumentation and computer systems in the MOCS.

Performance Based, Quantitative Terms. The Contractor shall perform maintenance of Sea Range Instrumentation Systems in accordance with the following criteria:

- (a) All preventive maintenance shall be completed at the prescribed intervals, in accordance with Maintenance Engineering Plan, and shall be performed on a non-interfering basis to scheduled operations.
- (b) Pre-Operation System Check(s) shall commence no later than one (1) hour before the scheduled mission.
- (c) Operational Support. The Contractor shall respond immediately to all mission requirements.
- (d) Post-Operational System Check(s) shall be completed within one (1) hour of mission completion or termination.

3.4.5. Operations Control Rooms

Sea Range operations are coordinated from the Range Operations Center (ROC) at Point Mugu. There are three Operations Control Rooms (OCR): Alpha, Bravo, and Delta. Operational data is distributed to and displayed in the OCRs, using the High Resolution Video Distribution System (HRVDS) and the General Range Intelligent Display System (GRIDS). During Sea Range operations, access to the OCRs is strictly controlled, based on the classification of data and Range customer requirements.

Specific Requirements. The Contractor shall provide operational and maintenance support for the Operation Control Rooms (OCRs), as follows:



- (a) HRVDS Maintenance. The Contractor shall perform all scheduled maintenance, unscheduled maintenance, and repair on assigned HRVDS equipment located in OCR Alpha, as well as the other HRVDS sites throughout the Range Control building in accordance with Contractor's Maintenance Plan.
- (b) HRVDS Configuration Management (CM). The Contractor shall provide CM for the baseline configurations of the HRVDS and OCR Alpha. The Contractor shall process all requests for configuration modifications, in accordance with the HRVDS configuration management document and Range directives. The Contractor shall submit revisions to technical manuals, as needed. (CDRL A00B)
- (c) OCR/GRIDS Sanitizing. The Contractor shall perform post-operation sanitizing of OCR Alpha to remove any classified data or mission residue. This includes removable storage media, hardcopies, operational notes, or count down documents. The Contractor shall ensure that GRIDS displays are terminated and that GRIDS electronic storage media is properly removed in accordance with NAVAIRINST 5239.2 and DoD 5220.22-M. The Contractor will install Government-provided software upgrades as directed.
- (d) GRIDS Operational Support. The Contractor shall configure and operate GRIDS for target missions and provide other GRIDS-related support. Contractor GRIDS support personnel shall attend briefings and planning meetings and provide interface/pre-mission checkouts with tracking sites. The Contractor may install Government-provided software upgrades, as directed. In addition, the Contractor shall request voice communication nets from the technical control center for real-time target mission support, install and operate video recorders and hardcopy equipment, and assist with pre-mission calibration/vectoring of precision tracking radar. The Contractor shall be prepared to make real-time system changes during missions to maximize operation support.
- (e) OCR Security/Access Control. The Contractor shall ensure that personnel, physical, equipment, and information/data security is maintained in OCR Alpha at all times in accordance with SECNAVINST 5510.36 and DoD 5220.22-M. The Contractor shall provide security monitors in the lobbies of OCRs Alpha, Bravo, and Delta, as required for special access operations. The Contractor shall monitor compliance with security directives and procedures, with regards to personnel and electronic equipment moving in or out of the OCR rooms, as scheduled for classified operations. The Contractor shall ensure that the proper logs and records are accurately generated, maintained, and properly routed. The Contractor shall provide security and other OCR support during scheduled VIP tours and demonstrations. The Contractor shall assist in meeting security requirements for cryptographic material, including handling and inventory, in accordance with Communications Material Security (CMS) policies. The Contractor shall prepare and distribute the OCR Equipment Move Sheets for all transitions of equipment into and out of OCR Alpha. (CDRL A00C)

Performance Based, Quantitative Terms. The Contractor shall provide OCR support services, in accordance with the following criteria:

- (a) The HRVDS shall be operationally ready to support Sea Range T&E/training missions.
- (b) Pre-Operation System Check(s) shall commence no later than two (2) hours before the scheduled mission. Pre-operational system checks shall be completed no later than one (1) hour prior to mission start time.
- (c) Operational Support. The Contractor shall respond immediately to all mission requirements.
- (d) Post-Operational System Check(s) shall be completed within one (1) hour of mission completion or termination.
- (e) OCR Alpha access control must be maintained during classified missions until final sanitizing after mission completion. The OCR shall be sanitized within one (1) hour after an operation if no operation follows. If the next scheduled operation immediately follows a classified inspection, the OCR shall be sanitized before the room is made available to the next operation in accordance with OPNAVINST 5530.14B and SECNAVINST 5510.36.

3.4.6. Telemetry Processing System

The NAWCWD Ranges are fully instrumented, both in their capability to track and control participants, and in their ability to collect telemetry (TM) data from suitably-equipped weapons, targets, aircraft, and vessels. Sea Range TM receivers/antennas are located at Point Mugu and remote sites. TM data can also be collected and retransmitted from over-the-horizon, by specially-equipped NAWC aircraft or unmanned aerial vehicles (UAV). Raw TM signals may include both digital and analog TM data in encrypted or unencrypted formats. The central Telemetry Processing System (TPS) receives, filters, demodulates, decrypts, and digitizes (as needed) all incoming Radio Frequency (RF) telemetry signals. The TPS then stores, distributes, and displays the processed TM data over its computer-based network. Satellite Data Handling stations are located in Building 53C and 738 at Point Mugu.

Specific Requirements. The Contractor shall maintain the Telemetry Processing System and Data Handling Stations, as follows:

- (a) Preventive and Corrective Maintenance. The Contractor shall maintain and repair all TPS equipment, in accordance with the approved Contractor's Maintenance Plan. The Contractor shall use Demonstration (DEMO), System Operational Test (SOT), and Network diagnostics, ensuring that all components of the TPS are ready for operational support. The Contractor shall maintain selected spare parts for immediate repair of TPS equipment. With approval of the COR, the Contractor shall submit items for Depot Level Maintenance. The Contractor shall provide Technical Manual support for TPS alignment and maintenance, and shall submit revisions to Calibration and Repair Manuals, as required. (CDRL A00B)
- (b) Hardware Repair Reports (HRR). The Contractor shall document all reported equipment problems and record all corrective action taken on serialized HRRs. The Contractor shall document the operational status of all open/completed HRRs in the TPS Status Report. (CDRL A007)
- (c) Upgrades and Modifications. The Contractor shall routinely monitor the TPS hardware and make recommendations for upgrades or modifications to enhance operation and maintenance capabilities. The Contractor shall stay abreast of current trends in data processing, and incorporate state-of-the-art technology to reduce costs, increase reliability, and expand TPS operational support capabilities.
- (d) Data Handling Stations. The Contractor shall operate and maintain the satellite Data Handling Stations at Point Mugu, CA. This includes receiving and logging operational data, issuing data packages to Range customers, and controlling visitor access to secure spaces. All classified data items will require special handling, in accordance with the DoD 5220.22-M.

Performance Based, Quantitative Terms. The Contractor shall perform operation and maintenance of TM systems, in accordance with the following criteria:

- (a) All preventive maintenance shall be completed at the prescribed intervals, in accordance with Maintenance Engineering Plan, and shall be performed on a non-interfering basis to scheduled operations.
- (b) TPS Operational Support Status Report shall be completed daily and submitted no later than five (5) days after the end of each month.
- (c) Hardware Repair Report (HRR) shall be generated for any corrective action performed on TPS equipment.
- (d) The Contractor shall submit a Monthly Maintenance Status Report on the status of HRRs.

3.4.7. Data Processing

The Data Processing & Displays Division is responsible for processing Range instrumentation data and generating real-time/near-real-time and final data products for Range customers. Instrumentation data may include time, space, and position information (TSPI) data; Global Positioning System (GPS) data; and digital/analog telemetry data. The overarching architecture/environment for Range data processing is the Range Data System (RDS) and the Range



Data Production System (RDPS). Range data processing is accomplished, using the RDS and the Range Data Network (RDN) systems and related application software.

Data processing products are created in real-time and near-real-time data for operational support and refined data is generated for final product processing. Final TSPI, GPS, TM, or other output data are issued in Data Processing Reports.

Specific Requirements. The Contractor shall provide data processing support, as follows:

- (a) **Mission Planning/Preparation.** The Contractor shall attend pre-mission briefings and meetings to review customer requirements, provide advanced technical support, and ensure timely and accurate post-mission data processing and production. The Contractor shall design, develop, test, document, and implement application software routines and job control files in support of TM, TSPI, and ITCS data processing. The Contractor shall provide specific services and support, based on the data processing, reduction parameters, data output, and delivery requirements of each Work Request.
- (b) **Trajectory Data Processing.** The Contractor shall format, edit, correct, filter, and process raw TSPI data from various Range data sensors. Data products shall be provided in accordance with the Work Request. The Contractor shall apply corrections for boresight, radar antenna alignment, refraction, and other known errors; transformed corrected data to the requested coordinate system; and derive other parameters that are functions of position. Refined data shall be provided for final data products.
- (c) **GPS Data Reduction.** The Contractor shall process GPS data received from a variety of sources, using processing methods currently available through the RDPS. The Contractor shall provide GPS data products, in accordance with the Work Request.
- (d) **Telemetry Data Processing.** The Contractor shall reduce and process telemetry data. TM data reduction shall be accomplished in three phases: calibration, analog, and digital processing. Calibration of telemetry files is required for final digital telemetry processing. Analog telemetry strip chart processing will prepare and attach identifying leaders, calibrated or uncalibrated, and annotate time and event call outs, in a manner specified by the Work Request. Digital telemetry processing will unpack, reformat, edit, and calibrate analog data, as well as provide scaled or unscaled parameters. The Contractor shall generate required telemetry function files for TSPI processing. The Contractor shall provide TM data products, in accordance with the Work Request.
- (e) **Optical Data Reduction.** Using Government-provided film and vendor equipment, the Contractor shall read film from cinetheodolite, kinematic tracking mount, mobile optical tracking unit, cinesextant tracking cameras, and airborne separation cameras. The optical film readers produce intermediate data output on electronic media.
- (f) **Data Processing Reports.** The Contractor shall deliver final data products, in accordance with the directions of the Work Request. All data shall be checked for validity. The Contractor shall issue the final TSPI, GPS, or other output data, in the form of a Data Processing Report. The reports shall include all processed data and pertinent statements concerning the processing and coverage of the data - including the assumptions made and the data sources selected; data processing methods/software modules used; models, filters and smoothing algorithms applied; data anomalies encountered and corrections made; and any other pertinent comments concerning the amount of coverage and quality of the input or output data. (CDRL A007)
- (g) **Data Reduction and Processing Procedures.** The Contractor shall develop and revise data reduction RDPS Documentation and Technical Procedures. These procedures shall consider current technology requirements, while adhering to the RDS architecture. Procedures shall define the techniques and methods used in reduction of specific types of data from various collection sensors, and provide pertinent information for processing. (CDRL A00E)



- (h) Requirements Analysis Support. The Contractor shall analyze data processing requirements, relative to the efficient use of the current and future Range Data Production System. Analyses shall be directed toward resolving input and output discrepancies in order to ensure that required data package(s) can be produced from the raw input data.
- (i) Computer Applications. The Contractor shall develop, convert, test, maintain, and document production software using the RDPS. The Contractor shall provide computer applications support for the refinement and enhancement of NAWCWD RDPS.
- (j) Range Data Production System. The Contractor shall document applications software routines (job decks) developed or modified to support specific project requirements, and provide a copy of the application software documentation to the Work Request originator. The Contractor shall submit new or modified Job Control Files and Documentation. (CDRL A00D)

Performance Based, Quantitative Terms. The Contractor shall perform operation and maintenance of TM systems in accordance with the following criteria:

- (a) The Contractor shall deliver a Data Processing Report for each data production request (Work Request) no later than five (5) days after the end of the month assigned.
- (b) The Contractor shall provide a copy of job control files and documentation for each data request requiring a new or modified job control file.
- (c) The Contractor shall maintain accuracy in the data reduction process, to a level that is consistent with the accuracy and precision of the data collection system, as well as the data processing equipment. Contractor-generated check routines, QA procedures, and revisions shall be made available to Government personnel for review and inclusion in the RDPS Library.

3.5 Pacific Ranges Engineering Services

The NAWCWD Pacific Ranges employ Instrumentation and other systems to conduct, monitor, and analyze Range operations. To maintain and expand Range capabilities requires engineering and technical support. These are generally projects of a defined length, which provide design, development, procurement, and/or installation projects in support of Range systems. Efforts may include a variety of systems/software engineering, technical, analysis, and support tasks, as required to maintain, enhance, and/or expand the capabilities of Range systems. These tasks may involve new systems, modifications to existing systems, or integration of combinations thereof. Assigned tasks may involve operations at NAWCWD Ranges and other sites worldwide for operations supported by the NAWCWD Range Department.

Specific Requirements. The Contractor shall perform systems engineering and technical support services in support of NAWCWD Range Instrumentation Systems, as directed by individual Task Orders. Specific tasks include:

- (a) Systems/Software Engineering. The Contractor shall provide systems and software engineering support, as required. Engineering tasks may include: requirements definition and analysis, development of system performance specifications, feasibility and functional analysis, design studies and evaluation, systems synthesis and optimization, system design, development, fabrication, testing, evaluation, integration and implementation, environmental studies/ compliance, and software/interface design. (CDRL A00F)
- (b) Technical Support. The Contractor shall provide technical support to engineering, operations, and/or maintenance efforts in support of Range systems. Specific tasks may include: development, review, evaluation of technical documentation; implementation of test plans and procedures; monitoring/evaluating developmental Contractor efforts; illustration, technical writing, and editing; provision of technical data products; and configuration control/management.

- (c) Range Instrumentation Systems. Range Instrumentation Systems are any systems that support Range operations under NAWCWD responsibility. This includes systems that directly support command and control of Range operations; provide communications, test monitoring, or safety; support data collection, analysis, display, or evaluation; enable interface/interoperability with Range users or other Ranges; or otherwise allow NAWCWD Range personnel to successfully complete their mission. These systems may provide coverage on or above the surface, as well as undersea. Some of the major systems include:
- Surveillance, tracking, positioning, measuring, and scoring systems.
 - Data and voice communication systems (both “uncovered” and secure).
 - Underwater acoustic systems.
 - Telemetry systems.
 - Data collection, processing, recording, and display systems.
 - Command and control systems.
 - Switching systems and networks.
 - Data analysis systems.
 - Radar, infrared, and Electro-optic systems.
 - Target and unmanned vehicle control systems.
 - Airborne instrumentation systems
 - Geophysical systems.
 - Computer systems (analog and digital).
 - Support Equipment (SE), including Automatic Test Equipment (ATE).
 - Threat systems and simulators.
- (d) Operational Analysis and Requirements Development. The Contractor shall perform analyses of current and projected operations, in both projected threat and operational environments. These studies may include the consideration of various technologies to accomplish Range missions.
- (e) Planning and Evaluation of Range Operations. The Contractor shall review operational and/or T&E requirements for specific Range users, develop weapon system test/training employment scenarios analyze Range Instrumentation and threat requirements, and propose test methodologies and analysis techniques. The Contractor may also monitor Range operations, provide inputs on test conduct, and support the reduction and analysis of test data. Based on Contractor and/or Government data analysis, the Contractor may be required to provide support to the evaluation of user test objectives and validation of Range operational support.
- (f) Modeling and Simulation. The Contractor shall support Range Operations through the development, conduct, and/or analysis of computer-assisted modeling and simulation efforts. This tasking may involve the development of analytical models for Air-to-Air, Air-to-Surface, Surface-to-Air, and Surface-to-Surface engagements. This may or may not include actual Software- or Hardware-In-the-Loop (SIL/HIL) simulations.
- (g) Engineering Investigations/Studies. The Contractor shall conduct engineering investigations and special engineering studies/analyses in support of Range Instrumentation System design, integration, implementation, and operation. Specific areas of study may include: design concepts; proof of design; engineering trade-offs; availability of Commercial Off-The-Shelf (COTS) or non-developmental items (NDI); environmental impacts and mitigation; reliability, availability, and maintainability; site surveys; and Cost and Operational Effectiveness Analyses (COEA).
- (h) Design and Development of Systems/Subsystems. The Contractor shall support the reconfiguration, improvement, and modification (I&M) of Range Instrumentation Systems. This may include initial requirements development; design trade-off studies; design of systems, subsystems, or interfaces; identification of COTS/NDI components; development of performance and/or interface specifications, drawing packages, manufacturing methodologies, and technical documentation; installation, implementation, and integration; and system testing and validation. These systems may involve complex

integration issues, comprising a range of unique, legacy, or obsolete systems, with state-of-the-art technologies.

- (i) **Manufacturing/Fabrication Support.** The Contractor shall support the manufacture and assembly of parts, assemblies, subsystems, and systems. This support may involve analysis of manufacturing methods and technologies, certification of suppliers, development or review of drawing packages, design of tooling, identification of long lead items, procurement of raw materials, prototyping, end unit testing, in-process inspections and quality assurance, or actual fabrication/assembly operations. Fabrication/assembly will generally be performed on the Government's site. All personnel involved shall be properly trained and certified to Government standards or commercial equivalents.
- (j) **Test and Evaluation (T&E) Support.** As required, the Contractor shall support the test and evaluation of Range Instrumentation Systems. This support may include developing test requirements, scenarios, and test plans; determining data requirements and evaluation criteria; defining Measures of Effectiveness (MOE) and limitations to scope of testing; analyzing raw and processed data; evaluating and reporting results; and providing conclusions/recommendations. Test and evaluation support may include both immediate/near-term requirements and projected, future requirements. T&E support shall be governed by DoD 5000 (series) and NAVAIRINST 3960.4.
- (k) **Technical Documentation Support.** Both engineering and technical support tasks may involve technical documentation, supporting the entire life-cycle of particular Range Instrumentation Systems, from requirements development, through design, manufacture, or procurement, to installation and integration, life-cycle support, upgrade, and removal/retirement. Specific engineering and design documentation include requirements documents, system performance specifications, interface design specifications, both system(s) and tooling design, drawing packages, and Engineering Change Proposals (ECP), as well as programmatic/contractual documents, such as work statements, Plans of Actions and Milestones (POA&M), project master plans, briefings, action items, and status reports. Test documentation and support may include Test and Evaluation Master Plans (TEMP), test plans and procedures, Range Instrumentation Program Support Plans (PSP), test data and reports, and software validation/verification. Life-cycle support may include integrated logistics support plans, operations plans and procedures, maintenance plans and instructions, work packages and work breakdown structures, technical publications, quality assurance plans and procedures, training plans and materials, classroom or "hands-on" training, and computer hardware/software resources documentation. (CDRL A00B)
- (l) **Support of Engineering/Technical Meetings.** The Contractor shall support applicable programmatic, engineering, technical, logistics, T&E, and other meetings, as required to support assigned Task Orders. These meetings may include: development and in-process reviews, technical and programmatic briefings, and other meetings of an engineering nature. Contractor tasks may include the development of agendas and presentation materials, support of meeting conduct, generation of meeting minutes, and identification/tracking of action items.

Performance Based, Quantitative Terms. The Contractor shall perform Range engineering and technical support, in accordance with the following criteria:

- (a) Develop POA&M or similar schedule and milestones, as part of the Task Order.
- (b) The Contractor shall be evaluated on their adherence to the published schedule and milestones.
- (c) Quality and completeness of work will be evaluated by the TA.
- (d) Design services will be judged by commercial or Government standards, as applicable, for design specifications and/or drawing packages.
- (e) Analysis of commercial products will be evaluated by the TA, based on technical applicability and cost.



3.6 Other Range Tasks

The Contractor shall perform other tasks as assigned in support of the scope of this contract. Specific operational, maintenance, and engineering support tasks in support of the Pacific Ranges Department may be assigned as part of the Task Orders described in the paragraphs above or in separate Task Orders.

3.7 Miscellaneous Tasks

NAWCWD Pacific Ranges operations are supported by additional administrative and other functions. Some of these tasks are required to produce and handle Range data products and information. Specifically, these tasks include Test Range Information Management System (TRIMS) data entry, production/reproduction of data products, courier services, storage of operational/classified material. As directed by the Task Order, the Contractor shall perform the functions in the following paragraphs.

3.7.1. Test Range Information Management System (TRIMS)

The Contractor shall compile, and input into the TRIMS, hours expended, and material costs by task, TCN, and JON. The database shall be fully updated within three (3) days after the completion of each calendar week. The Contractor shall identify a single Point Of Contact (POC) for the TCN tracking system; the COR and Management Information Branch shall coordinate with the Contractor POC to research and, as necessary, correct time and material cost data. (CDRL A00H)

3.7.2. Courier

On a daily basis, the Contractor shall sort and distribute incoming and outgoing mail, and perform pickup, delivery, and distribution of Range operational data and products. Items for regular, scheduled distribution shall include Daily and Weekly Range Test Schedules. Items for specific delivery, as required, will include test data, raw film from test operations and processed film from the NAWCWD Photo Lab, and Test Plans for signature approval. Pickup and delivery points will be identified by the COR in writing. The Contractor shall provide the COR with courier schedules and routes, and may recommend changes to pickup/delivery points to the COR.

As directed by the Work Order, the Contractor shall also pickup and deliver cameras and test equipment. Pickup and delivery locations shall be at central NAWC/NAWS sites and at a designated downrange instrumentation site. All items shall be picked up within two (2) hours of receiving Work Order and shall be returned upon work completion.

The Contractor shall provide packaging and distribution of classified data, including magnetic tapes, data tapes, and data packages generated from Range testing operations. Classified data handling shall be performed in accordance with DoD 5220.22-M.

3.7.3. Publication Services

The Contractor shall operate and maintain Government-owned equipment for the reproduction, binding, and publication of Range data products and reports. These products may include data lists, charts, plots, diagrams, and oversized pages, as required to fulfill Range and customer requirements.

3.7.4. Data Library

The Contractor shall maintain a data library system to store, retrieve and issue unclassified and classified data items. The Contractor shall provide for data collection, distribution, and disposition by courier, U.S. Mail, and commercial carriers, when appropriate. The Contractor shall control specific facility and data access, in accordance with the DoD 5220.22-M.



3.7.5 Barge Coordination/Scheduling and Manifesting System

The Contractor shall in collaboration with the Government Barge Coordinator and in accordance with the San Nicolas Island (SNI) Barge Operations, coordinate and direct all phases of SNI Barge Operations which include loading and unloading of cargo, processing off-shore island shipping documents required for shipment of material to/from SNI, and ensuring all required paperwork is complete and in place before shipment. The Contractor shall also assist customers with the disposition of material moved to/from SNI.

The Contractor shall be responsible for the management of the SAMS. Responsibilities include planning daily and weekly passenger manifests to accommodate personnel traveling to and from SNI using SAMS. The Contractor shall collaborate with all SNI divisions and establish the transportation needs of SNI personnel. The Contractor shall maintain the SAMS databases and conduct periodic inspections for errors. The Contractor shall establish and grant access to department nominated SAMS representatives for the purpose of placing reservations for personnel to/from SNI. The Contractor shall train and provide guidance and support to all SAMS representatives. The Contractor shall establish a shuttle schedule and coordinate with the NTWP Shuttle Administrator as necessary.



4.0 Reports And Data Requirements

The Contractor shall establish, implement, and maintain a networked integrated database, which supports the ongoing management of work flow within the Task Orders of this SOW. The database shall be available to the Contracting Officer, CORs, TAs, and alternates. The database shall be designed to operate with Government computer systems on the PR&F Network and to require minimal training of Government personnel. The Contractor shall verify operation of the database applications on the desktop computers of the CORs, TAs, and alternates.

4.1 Progress, Status and Management Reports

The Contractor shall provide a Progress, Status and Management Status Report for each Task Order on a monthly basis after the end of each month, to the Procuring Contracting Officer, COR, and associated TA. The report shall contain a narrative progress report, number of hours worked by employee identification and classification, cost of labor, travel, and other direct charges, including purchases, subcontracts, leases, and transportation, as well as general and administrative costs. The Government will monitor the Contractor's work performance, by reviewing the progress and status reports, conducting on-site inspections, and inspecting contract deliverables for compliance with each Task Order. (CDRL A004)

4.2 Voucher Quality Control Sheets

The Contractor shall submit Voucher Quality Control Sheets with each payment voucher. (CDRL A00G)

4.3 Phase-In Plan

The phase-in period begins on the effective date of the contract and continues through the end of the first 30 days. During this period, the Contractor's plans to manage all aspects of the contract shall be finalized. A Phase-In Plan shall be submitted as a segment of the Contractor's Management Plan. This Plan shall explain the implementation, capabilities, and contents of the Contractor's data systems and an explanation of how it will be accessed by Government personnel.

4.4 Phase-Out Plan

A Phase-Out Plan shall be submitted when the Contractor is notified by the Government. The Phase-Out Plan will address complete turnover of all functions being performed under the contract. The Phase-Out Plan shall describe interfaces between all affected parties, including the transferring of personnel coincident with the transfer of functions and responsibilities, transfer of security responsibilities, transfer of Government Furnished Property (GFP), and any other functions that may need to be considered. The plan shall be submitted to the COR and Contracting Officer for approval. (CDRL A00J)



5.0 Special Requirements

5.1 Relationship of the Contractor to Range Users

The Contractor does not have authority to make any commitment to any Range user. Deliverables that are produced by the Contractor shall be transmitted to the Range user after review and authorization by Government personnel who require the deliverable data products. The Contractor may interface with Range users for exchange of technical information to meet the requirements of real-time operations and post-flight data reduction schedules, if authorized by the COR or designated technical representative.

5.2 Telephone

The Government will provide telephone service to the Contractor in Government spaces. The Contractor shall designate one telephone number as a primary number, which will be answered during all normal working hours. The designated telephone shall be answered by a person, not an answering machine or answering service. The person answering the telephone shall have sufficient knowledge of the responsible Contractor personnel and the Contractor organization to initiate required responses to the callers. All telephone equipment and service required by the Contractor shall be requested through, and approved by, the COR.

5.3 Information Technology

The Contractor shall maintain all Government-provided computer systems, in compliance with NAVAIRINST 5239.2.

5.4 Safety

The Contractor shall implement a Safety Program, in accordance with OSHA and Cal OSHA regulations, and NAVWPNCEN IDPs 3726 and 3798, as well as NAWCWPNSINST 5100.1. Any conflict between these directives shall be resolved by initiating the most stringent requirement. The Contractor shall develop and maintain a Safety Plan. The Contractor's Safety Plan shall be designed to minimize risk and ensure safety to personnel and equipment. The Safety Plan shall be incorporated in the Contractor's Management Plan as an attachment. The Contractor shall provide a single Point of Contact for all Contractor safety issues.

The Contractor shall immediately notify the COR/TA of any accident, as per the Safety Plan. As required, the Contractor shall support the investigation of and reporting on any accident. As required by OPNAVINST 5102.1C or other directive(s), the Contractor shall submit inputs to, draft(s), or a final Accident Investigation Report. (CDRL A00K)

Explosive Ordnance Safety. The Contractor shall place particular emphasis on functions related to Explosive Ordnance. The Contractor shall fully investigate any ordnance-related mishaps. The Contractor shall forward results to the NAWS Safety Office and the COR within five (5) working days of the incident.

"Safe Person" Rule. The Contractor shall observe the two-person safety rule when working under hazardous conditions. This includes the following conditions/circumstances: possibility of electric shock, unprotected electronic equipment, poor road conditions, inclement weather, and exploded/unexploded ordnance.

Hazardous Materials (HAZMAT). HAZMAT requirements are discussed under "Environmental Compliance" in Paragraph 5.7 below.

5.5 Disaster Preparedness/Contingency Plan

The Contractor shall comply with NAWCWD contingency, emergency and disaster preparedness operating plans, in accordance with NAWCWPNSINST 3440.1 and NAWSCLINST 3010.1. These Government contingency plans

include mobilization and disaster preparedness operations, which may impact the Contractor's operations. When required by contingency operations, the Contracting Officer may unilaterally direct the Contractor to provide services that increase the workload. The Contractor shall continue to provide the same level of service, unless a change in performance level is requested and approved by the Contracting Officer. Due to the indefinite nature of contingency planning, no specific forecast of requirements is available.

Contingency Events. Examples of emergency/contingency events include:

- (a) A sudden build-up of military forces that increases contract requirements.
- (b) A natural disaster that affects the Contractor's ability to perform.
- (c) A work disruption that affects the Contractor's ability to perform.

Contingency Exercises. During exercises of NAWCWD contingency operations plans, the Contractor shall be required to provide personnel and equipment for specialized response teams. Normally, these exercises are conducted no more than twice annually. Contractor support of these exercises will be directed by the Contracting Officer or COR.

5.6 Environmental and Cultural Restrictions.

The Contractor shall ensure, consistent with other requirements of this contract, the protection and conservation of natural and cultural resources, as well as all flora and fauna. There are specific restrictions concerning the China Lake Ranges. All forms of recreation are prohibited on the Ranges, including mineral collecting, (recreational) off-road vehicle use, motorcycle use, exploring, archaeological or historical artifact collection, picnicking, and hunting. The Contractor shall ensure that Contractor personnel do not engage in prohibited forms of recreation.

5.7 Environmental Compliance

The Contractor shall comply with Title 40, U.S. Code (40CFR) and other applicable Federal, State, and local environmental laws and regulations. The Contractor shall also comply with applicable DoD, Navy, and NAWC directives. This includes the handling and storage of HAZMAT. Specific requirements follow.

Environmental Coordination and Permits. The Contractor shall coordinate environmental issues through the COR. This includes acquiring environmental permits and any actions having the potential to affect human health or the environment. The Contractor shall maintain files of all permits; these files shall be available for review by the COR, TA, and environmental inspectors.

Contractor Recycling Program. The Contractor shall maintain a Qualified recycling Program, in accordance with the Navy Solid Waste Management Plan. The Contractor will work with the Navy Recycling Program Manager to develop and improve the program. The Contractor shall conduct the annual opportunity assessment of the solid waste stream to identify source reduction potential and additional recyclable materials. The program shall include, but shall not be limited to, beverage containers, paper, tires, plastic, metals, glass, used oil, oil filters, cardboard, and lead acid batteries. The Contractor shall develop procedures to recycle construction materials.

Pollution Prevention. The Contractor shall maintain a current record of ozone depleting chemicals, solid waste, and Environmental Protection Agency (EPA) designated toxic chemicals. These records shall be made available to the Government upon request. The Contractor shall compile this data on a monthly basis, and submit it to the designated representative quarterly.

5.7.1. Hazardous Materials

The Contractor shall implement a Hazardous Materials Control and Management (HMC&M) Program. The Contractor program shall comply with the requirements of 40CFR 302, NAWCWPNINST 6240.1 and



NAWCWPNSINST 5100.1, Chapter VII. Prior to the arrival of any HAZMAT on-station, the Contractor shall submit to the COR and TA, via e-mail, a written list of the applicable HAZMAT, including physical location and quantity. The Contractor shall also ensure that Material Safety Data Sheets (MSDS) are prepared and submitted to the COR before any HAZMAT is brought on-station. (CDRL A00L)

Once HAZMAT is on-station, the MSDS will be readily available in the areas where the HAZMAT is to be stored/used. The COR will coordinate with the NAWS Hazardous Material Minimization Branch. The Contractor shall ensure that HAZMAT is used in the minimum amounts necessary to accomplish the mission, and that less hazardous substitutes are used, when feasible. Consideration of alternatives shall be considered in the following order of preference: (1) non-hazardous materials, or (2) materials that result in recyclable hazardous waste.

Storage and Handling. The Contractor shall ensure that all containment of HAZMAT is in accordance with Federal and State regulations, as well as the California Health and Safety Code, Title 22. The Contractor shall maintain hazardous waste accumulation areas in a neat and orderly condition, and label all HAZMAT containers in accordance with applicable regulations. Inspections and audits of HAZMAT accumulations will be conducted.

HAZMAT Inventories. A complete inventory of all HAZMAT brought onto NAWS China Lake and Point Mugu property in support of this contract shall be conducted on a semi-annual basis, or as requested by the Contracting Officer or COR. A copy of each inventory shall be forwarded to the COR for Contract filing. The Contractor shall maintain a copy of all HAZMAT utilized by Task Order. Each work center shall maintain a copy of HAZMAT used within their Task Order.

Waste Management. As the generator of Hazardous and Non-hazardous waste, the Contractor shall manage such wastes in accordance with 40 CFR 260-268; the Hazardous Waste Management Plan, Point Mugu (October, 1997); Environmental Compliance Handbook, Point Mugu, CA; Storm Water Pollution Prevention Plan, Point Mugu/San Nicolas Island; and Federal regulations not listed in the previous environmental compliance requirements.

Disposal of Hazardous Waste. Disposal of hazardous waste shall be under the NAWS China Lake or Point Mugu EPA ID number, as applicable. Unless otherwise authorized in writing, hazardous waste disposal shall be performed through the NAWS-permitted Hazardous Waste Transfer and Storage Facility. All transfers of hazardous waste shall be coordinated with the TA or COR.

Spill Prevention. The Contractor shall operate and maintain facilities and equipment to prevent the inadvertent release of HAZMAT and petroleum products to the environment, in accordance with SSR-2104-ENV.

Notification of Environmental Spills. The Contractor shall report any (other than minor) spills or releases of oil or any substance listed in 40 CFR 302 into the environment. The Contractor shall report the incident to the Environmental Coordinator, in accordance with the Oil Pollution Act of 1990 (OPA 90) and local procedures, and will notify the HAZMAT Cleanup Team and the COR. The initial contact may be initiated by the Emergency Services Coordination Office (911). The Contractor shall be liable for containment and environmental clean-up of the spill or release of such substances. Note: Only properly trained personnel may clean up or contain HAZMAT spills or discharges.

HAZMAT Training. All Contractor personnel determined to be HAZMAT handlers shall receive hazardous waste training and shall be required to attend yearly refresher training courses. Training shall be coordinated via the COR. Training records will be made available, upon request by the COR and NAWS Environmental Office, for reviewing purposes.

5.8 Radiation Requirements

As directed by the Task Order, the Contractor shall provide trained personnel and safety equipment for the removal of radium components from target vehicles. Safety equipment will include radiation monitoring and detection instrumentation, as well as personnel dosimeter equipment. The Contractor shall be responsible for the maintenance and calibration of all safety equipment, including dosimeter and radiac equipment.



6.0 Travel and Transportation

The Government anticipates that the Contractor shall travel to various locations to perform work and obtain specialized training. Contractor personnel may utilize Contractor-owned and Government-provided vehicles in the performance of their duties under this contract.

6.1 Travel

All travel shall have written approval from the COR, prior to incurring any travel expenses. Travel costs will be in accordance with the Joint Travel Regulations (JTR). Transportation between Point Mugu and the outlying Channel Islands will be provided by the Government via aircraft, helicopter, or boat. Ground transportation; while on the outlying islands; will be furnished by the Government. Contractor personnel shall document travel expenses on a Travel Expense Report. (CDRL A00M)

6.2 Vehicles

This contract will require the use of Contractor-provided and Government-provided vehicles. Government-provided vehicles will include Contractor Acquired Property (CAP) and those provided by the General Services Administration (GSA).

Contractor-Provided Vehicles. Contractor-provided vehicles are authorized in the performance of this contract. The Contractor shall ensure that any employee operating a CAP vehicle is properly trained and possesses the appropriate state license required for the vehicle or equipment class. The Contractor shall meet all NAWCWD security requirements for non-Government vehicles, as specified in Section 7 of this SOW.

GSA Vehicles. For GFE vehicles, the Contractor shall establish an agreement with GSA, prior to contract start, for the supplying of contract vehicles that are available through their agency. The Contractor shall be responsible for all transactions with GSA. GSA reimbursements for fuel and maintenance will be deposited into a Government cost distribution account. The account number will be provided by the Government to GSA when the agreement is established between the Contractor and GSA. The Contractor shall perform maintenance on GSA vehicles at the Contractor's China Lake repair facility. The Contractor may also subcontract or purchase commercial maintenance services for GSA vehicles, as required. Employees operating GSA vehicles must meet the same requirements as for CAP vehicles described above.

6.2.1 Ridesharing. The Government may require the contractor to rideshare with government personnel to remote sites and test facilities on the NAWCWD Ranges only for the performance of the contractor's official duties. Ridesharing while the contractor is on official travel is not included in this paragraph, but is covered under NAWCWD policy memos. The government may provide vehicles, including pickup trucks and vans, some which are instrumented with workstations for technical work to be accomplished away from the contractor's permanently assigned buildings. Ridesharing to test locations outside of the NAWCWD Ranges will be on a case-by-case basis and approved by the Contracting Officer's Representative, NAWCWD Test Range Management, and the Contracting Officer. When the ridesharing to other than NAWCWD ranges is considered routine, the requirement may be included in individual task orders. Ridesharing may include the use of code owned vehicles, contractor acquired property (CAP), and contractor owned government operated (COGO) vehicles.

6.2.2 Contractor Owned Government Operated (COGO) and Government Owned Government Operated (GOGO). The Government may require the contractor to operate COGO and GOGO vehicles in the performance of the contractor's official duties to and at remote sites and test facilities on the NAWCWD Ranges. The contractor shall be responsible for meeting all training and licensing requirements to operate COGO and GOGO vehicles and equipment. The contractor shall report to work at a government site code prior to operating the COGO and GOGO vehicles. The contractor need for COGO and GOGO vehicles and equipment will generally be less than full time and shall not interfere with government use of those vehicles and equipment.



6.3 Fuel

The Government shall furnish fuel for generators and CAP/GFE vehicles for this contract. With the coordination of the COR, the Contractor shall obtain from the Public Works Departments authorization card(s)/key(s) for vehicle and generator fuel. The Contractor shall provide fuel distribution for generators, unless specified otherwise in the Task Order. The Contractor shall provide diesel fuel at the target facility for target vehicles and Contractor equipment requiring diesel fuel. The Contractor shall submit the Generator Fuel Report, as required. (CDRL A00N)

7.0 Security

The Contractor shall comply with security requirements, as described in SECNAVINST 5510.36, OPNAVINST 5530.14C, NAWCWPINST 5510.29A, DoD 5220.22-M, and other directives, as indicated. In addition, the Contractor shall take all reasonable measures to safeguard National Security information and systems. The Contractor shall submit to the COR the names and appropriate information for each employee working under this contract ten (10) days prior the start of work, as well as complete questionnaires or other forms required for security purposes. Specific security requirements are described in the following paragraphs. Detailed security requirements are also defined in the DD254 for this contract. The Contractor shall provide a single Point of Contact for all Contractor security issues.

7.1 OPSEC and Special Security Requirements

The Contractor shall comply with Operations Security procedures in OPNAVINST 3432.1 and NAVWPNCEN TM 6155, as well as special security requirements of Range customers. The Contractor shall provide an OPSEC Plan as an attachment to the Management Plan. This Plan shall address communications security, technical information security, and administrative actions, as well as personal and physical security. Contractor OPSEC efforts may include review/revision of operating procedures, assignment of specific cleared personnel to certain tasks/projects, revision of work schedules, and use of special equipment handling procedures, as directed by the Government.

7.2 Letters of Authority

The Contractor shall issue Letters of Authority for Contractor personnel required to transport classified data/material in the performance of their duties. Letters of Authority shall be printed on official corporate letterhead, and shall include, at a minimum, the Contractor number, employee name, employee's security clearance level and basis, and signature block for COR endorsement. These letters shall be submitted to the COR on the contract start date. Letters of Authority shall be updated when changes occur and at intervals not to exceed one (1) year. (CDRL A00P)

7.3 Security Clearances, Identification and Visitor Control

Some of the tasking within this SOW require Contractor personnel to possess active SECRET and, in certain circumstances, TOP SECRET security clearances. All Contractor personnel shall possess the security clearances required for the work performed. The Contractor shall comply with local badging, pass and identification (ID), and visitor control requirements, in accordance with NAWCWPNSINST 5510.29A, Chapter 3, Section 1, and as described in the following paragraphs. A list of all NAWC-badged Contractor personnel performing on this contract shall be made available to authorized Government personnel via the PR&F Network. At a minimum, this list will include employee name, Security Clearance level, NAWC/Contractor badge numbers, home and work phone numbers, and Range radio call sign(s).

Contractor Personnel Identification. The Contractor shall provide company ID badges that are readily distinguishable, with identification and photographs, for all Contractor employees. In addition, the Contractor shall ensure that employees wear the appropriate NAWCWD color-coded ID badges, at all appropriate times, while working at NAWCWD.

Passes for Non-Government Owned Vehicles. The Contractor shall obtain the following pass and ID items required for contract performance for employees and non-Government owned vehicles:

- (a) DD Form 2220, DoD Registered Vehicle and Installation Tab.
- (b) NAWCWD Form 5512/1, Personal Security Identification Badge.

Retrieval of Employee Security Passes and Identification. The Contractor shall retrieve all identification media, including vehicle decals from employees who depart for any reason, before the contract expires; e.g., termination, retirement, transfer, etc.



7.3.1. China Lake Range Access

All Contractor personnel requiring access to NAWCWD China Lake testing Ranges shall be cleared on and off the Ranges via telephone or radio. During normal working hours, clearance is granted through the Land Range Air Operations Section. The radio call-sign is "Microspeech". Outside normal working hours, access is granted by the China Lake Police Department.

7.3.2. Computer Security

The Contractor shall maintain all GFP computer systems, in compliance with NAVAIRINST 5239.2.

7.3.3. Freedom of Information Act (FOIA) and Public Affairs

The Contractor shall comply with requirements of SECNAVINST 5720.42F in the performance of their assigned tasks. This includes proper labeling, handling, transmitting, and safeguarding of "For Official Use Only" (FOUO) materials. Based on these guidelines and guidance from the COR/TA, the Contractor may provide FOUO information to other US Government agencies, DoD Contractors, and Range users, as required for official use, to support the assigned tasks. Any requests for information not directly supporting completion of assigned tasks will be referred to the TA or COR for consideration. The Contractor may not be the releasing authority for any FOIA information.

7.3.4. Counterintelligence Awareness and Briefing Program

The Contractor shall comply with the Counterintelligence Awareness and Briefing Program requirements of SECNAVINST 5510.36.

7.3.5. Physical Security

The Contractor shall maintain all assigned or occupied spaces in a safe and secure manner. The Contractor shall comply with operating instructions for personnel access, control and protection of resources, and entry into Navy controlled areas at all times.

Lock Up Responsibilities. The Contractor shall secure all work spaces properly at the end of each work day/shift, including, but not limited to, locking all offices, lockers, tool boxes, tool rooms; locking keys in key control box; turning off computers; turning off all non-security or safety lights; securing all water and air outlets; closing and locking windows; properly accounting for and returning all classified material; and closing and locking all external entrances. The Contractor shall report any and all unusual occurrences, which might affect security or personnel safety in the spaces under their stewardship, to base security and the COR.

Key Control. The Contractor shall establish and implement a key control system to ensure that no keys issued to the Contractor by the Government are lost, misplaced, or used by unauthorized persons. A complete key inventory shall be accomplished by the individual site leads at least every 90 days, with the results reported to the Program Manager, TAs, and COR.



8.0 Quality Assurance

The Contractor shall develop, implement, and maintain a Quality Assurance/Quality Control (QA/QC) Program, which satisfies all contract objectives and meets the requirements of ANSI/ASQC Q9003-1994. The Government does not require "Third Party Certification" for the use of ANSI/ASQC Q9003-1994. The Contractor may choose to obtain "Third Party Certification" of the Quality Program, but that action does not relieve the Contractor from their responsibility to meet the requirements of this contract. The Contractor shall provide a single Point of Contact for all Contractor quality issues.

QA/QC Plan. The Contractor shall develop and maintain a QA/QC Plan as an attachment to the Contractor's Management Plan. The Contractor's QA/QC Plan shall ensure that all Task Orders, personnel functions, maintenance and data functions, and processes are performed to the required standards, as delineated in this SOW. The QA/QC Plan shall address the procedures and criteria for the following areas:

- (a) Inspection of incoming material.
- (b) Ensuring that documentation is accurate, current, and complete, and that changes are auditable.
- (c) Documentation of all quality assurance testing and related activities.
- (d) Equipment inspection identification and traceable markings.
- (e) Calibration control and monitoring.
- (f) Prevention of defects that may cause system degradation or specification non-conformance.



9.0 Government and Contractor Property

The Contractor shall establish a Property Control program, in accordance with DoD directives. The Contractor shall develop a Property Control Plan as part of the Management Plan. The Contractor shall provide a single Point of Contact for all Contractor property issues.

Government Furnished Facilities. The Government shall furnish the facilities as identified in the RFP. The Contractor shall operate and maintain facilities in accordance with specific task requirements of this SOW. All Government-Furnished facilities are subject to unannounced inspections by Government Fire, Safety, Security, and Environmental officials. Facilities are also subject to inspections by OSHA, Cal OSHA, NAVFAC, and various other State, Federal, and local agencies. The Contractor shall be responsible for maintaining shop areas, in compliance with the regulations set forth by these agencies.

Contractor Furnished Facilities. The Contractor shall furnish facilities for the performance of contract/Task Order management functions at China Lake. These facilities must be located within 15 miles of the NAWS China Lake main gate on Inyokern Road (California Highway 178) or Richmond Road entry gate.

Government Furnished Equipment (GFE). The Government will provide a GFE list for this contract in accordance with the RFP. A current GFE inventory list will be provided with each applicable Task Order. The Contractor shall maintain the inventory list and manage property assets, in accordance with the Contractor's Property Control Plan. The inventory listing should designate condition/repair status and the location of the equipment assigned to the Contractor for maintenance and repair. The Contractor shall provide all other related equipment, parts, material, tools, and supplies. (CDRL A00Q)

Government Furnished Supplies. Government-Furnished supplies required to accomplish these requirement will be made available to authorized Contractor personnel. Examples include Meteorological supplies and explosive supplies; the latter of which will be supplied by the NAWCWD Ordnance Division.

Contractor Acquired Property. A current CAP inventory shall be maintained and CAP assets shall be managed in accordance with the Contractor's Property Control Plan.

Purchasing of CAP. The Contractor shall maintain a list (by Task Order) of all outstanding purchases for CAP items that have not been delivered. The listing shall include, as a minimum: (1) the Task Order the purchase is for, (2) the total dollar amount, (3) the JON, if available, and (4) the expected delivery date.



B.1 Contract Data Requirement List (CDRL)

The following pages contain the twenty-four (24) proposed CDRLs identified in the SOW that are presented in Section B of this proposal volume. The proposed CDRLs are numbered according to their first appearance in the SOW; not in terms of any assumed relative importance or the frequency at which they are required to be provided by the offeror.

As discussed in the introduction, the CDRLs were prepared in accordance with the RFP instructions, Section L.2.a through L.2.o. Additional CDRLs requirements, resulting from the development of the SOW, were also prepared.

As an option for the Government, CDRLs A003, A004, A005, and A00J could be treated as attachments to the Management Plan (CDRL A002) and would therefore be part of that CDRL. Thereby, eliminating all other CDRLs. For those CDRLs that become delivery attachments to the Management Plan (CDRL A002) the reporting contents, delivery schedule, distribution, etc., would remain the same as presented on the CDRL DD Form 1423-4.

The table below summarizes the CDRLs contained on the following pages.

CDRL	TITLE	SUBTITLE
A001	Technical Report – Study/Services	Ordnance Handler Certification Letter
A002	Revision to Existing Government Documents	Management Plan
A003	Computer Software Product End Items	Contractor Cost/LOE Tracking System
A004	Contractor’ Progress Status and Management Report	
A005	Technical Report – Study/Services	Photovoltaic Maintenance Cost Report
A006	Revision to Existing Government Documents	Range Scheduling and Billing Data
A007	Technical Report – Study/Services	Status Reports
A008	Revision to Existing Government Documents	Cost Distribution Adjustment
A009	Technical Report – Study/Services	RIMP Maintenance Data Form
A00A	Technical Report – Study/Services	Weekly Maintenance Status Report
A00B	Revision to Existing Government Documents	Technical Manuals
A00C	Technical Report – Study/Services	OCR Equipment Move Sheet
A00D	Computer Software Product End Items	“Job Control” File and Documentation
A00E	Revision to Existing Government Documents	RDPS Documentation and Technical Procedures
A00F	Computer Software Product End Items	Software Modification and Documentation
A00G	Technical Report – Study/Services	Voucher Quality Control Sheets
A00H	Technical Report – Study/Services	Test Charge Number Report
A00J	Technical Report – Study/Services	Phase Out Plan
A00K	Technical Report – Study/Services	Accident Investigation Report
A00L	Technical Report – Study/Services	MSDS
A00M	Technical Report – Study/Services	Travel Expense Report
A00N	Technical Report – Study/Services	Generator Fuel Issue Report
A00P	Technical Report – Study/Services	Letters of Authority for Personnel Transporting Classified Material
A00Q	Technical Report – Study/Services	Annual GFE Inventory