

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-04-D-0020	2. DELIVERY ORDER/ CALL NO. 0001	3. DATE OF ORDER/ CALL (YYYYMMDD) 2005 May 12	4. REQ./ PURCH. REQUEST NO. 0010135276	5. PRIORITY
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6. ISSUED BY CDR NAWCWD CODE 220000D ATTN: B. MONCKTON (760) 939-8234 429 E BOWEN RD - STOP 4015 CHINA LAKE CA 93555-6108	CODE N68936	7. ADMINISTERED BY (if other than 6) DCMA LOCKHEED MARTIN DELAWARE VALLEY 1 FEDERAL ST M S AE 2 W CAMDEN NJ 08102-1013	CODE S3110A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR LOCKHEED MARTIN SERVICES INC NAME STEVEN A. SUSSMAN AND 2339 ROUTE 70 WEST, FLOOR 3W ADDRESS CHERRY HILL NJ 08002-3315	CODE 77609	FACILITY	10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE	11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED
			12. DISCOUNT TERMS	13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15

14. SHIP TO CDR NAWCWD CODE 531500E PHILMORE COOPER BLDG 465A PORT HUENEME CA 93043-4301	CODE N68936	15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER NORTH ENTITLEMENT OPERATIONS PO BOX 182266 COLUMBUS OH 43218-2266	CODE HQ0337	MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.
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16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.
	PURCHASE	<input type="checkbox"/>	Reference your quote dated Furnish the following on terms specified herein. REF:

ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED (YYYYMMDD)
<input checked="" type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:		1	

17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE
See Schedule

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
SEE SCHEDULE					

* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.	24. UNITED STATES OF AMERICA TEL: (760) 939-6043 EMAIL: mary.jacobs@navy.mil BY: MARY K. JACOBS	<i>Mary Jacobs</i> CONTRACTING / ORDERING OFFICER	25. TOTAL \$1,326,685.00	26. DIFFERENCES
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27a. QUANTITY IN COLUMN 20 HAS BEEN
 INSPECTED RECEIVED ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	c. DATE (YYYYMMDD)	d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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c. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	28. SHIP NO.	29. DO VOUCHER NO.	30. INITIALS
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f. TELEPHONE NUMBER	g. E-MAIL ADDRESS	<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	33. AMOUNT VERIFIED CORRECT FOR
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36. I certify this account is correct and proper for payment.		31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. CHECK NUMBER
a. DATE (YYYYMMDD)	b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.
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Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

I-BAND MAGNETRON MODULATORS
 CPAF
 Combat Environment Simulation (CES). In accordance with Statement of Work.
 FOB: Destination
 MILSTRIP: N6893605P1PW077
 PURCHASE REQUEST NUMBER: 0010135276

MAX COST	
BASE FEE	
SUBTOTAL MAX COST ÷ BASE	
MAX AWARD FEE	
TOTAL MAX COST + FEE	

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000101		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY
 CPAF
 I-Band Magnetron Modulators. In accordance with Statement of Work.
 FOB: Destination
 MILSTRIP: N6893605P1PW077
 PURCHASE REQUEST NUMBER: 0010135276

ACRN AA (cost + fee)	\$300,000.00
CIN: 001013527600001	

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002	DATA REQUIREMENTS CPAF In accordance with Contract Data Requirements List (CDRL) Exhibit A. Not separately priced. FOB: Destination	UNDEFINED			NSP

NOTE

BASE FEE AND AWARD FEE FOR LEVEL-OF-EFFORT ORDER

In accordance with the basic contract, base fee shall for work performed under this order is

CLIN	Base Fee Amount	Hours Per Level of Effort	Hourly Fee Rate
0001	[]	[]	[]

b (4)

provided that the maximum number of direct labor hours are expended.

The nature of the work under this task order is level-of-effort. As such, milestones defining specific outcomes cannot be defined in terms of quantity and schedule with any certainty. Funding may be obtained from a variety of sources as work is required. Therefore, the award fee pool available in any given evaluation period will be associated with the level-of-effort expended during that period.

The first award fee period will be from date of award to Sep 30, 2005. Thereafter, award fee will be paid on a biannual (six month) basis (October thru March, April thru September). In addition to the base fee set forth herein, the contractor may earn and be paid all or a portion of an award fee not to exceed [] provided that approximately [] direct labor hours are expended by the contractor. The maximum available award fee pool for any award fee period will be computed at the maximum rate of [] per direct hour invoiced by the contractor under the task order for the related award fee period. If less than 100% of the direct labor hours for the tasks are expended the fee shall be equitably reduced to reflect the reduction in work.

b (4)

The Contractor is to set aside an award fee amount from each funding SLIN based on the level of effort for the associated task.

NOTE:

This order is placed against CLIN 0001 of the Basic Contract.

This order is determined to be **NONSEVERABLE**.

In accordance with 52.244-2(e) SUBCONTRACTS of the basic contract, the Contracting Officer's written consent is required for subcontracts valued at \$50,000 or greater for this order.

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
0002	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 12-MAY-2005 TO 12-MAY-2007	N/A	CDR NAWCWD CODE 531500E PHILMORE COOPER BLDG 465A PORT HUENEME CA 93043-4301 (805) 982 2374 FOB: Destination	N68936
0002	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 1751507 J2EM 312 00019 0 050119 2D 000000
COST CODE: PMA208B2151A
AMOUNT: \$300,000.00
CIN 001013527600001: \$300,000.00

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment (1)	I-Band Magnetron Modulators Statement of Work	4	02MAR2005
Attachment (2)	Specification for I-band Magnetron Modulators	5	13JUL2001
Attachment (3)	Level of Effort for CES I-Band Magnetron Modulators	2	05MAY2005
Exhibit _	Contract Data Requirements List	3	22FEB2005

I-Band Magnetron Modulators Procurement

STATEMENT OF WORK

BACKGROUND: The I-Band Magnetron Modulator is a single, completely operational unit containing all components necessary for pulsing an SFD-349 magnetron to produce microwave energy. The Modulator shall be designed for continuous operation at sea in an unmanned environment.

1.0 SCOPE. The contractor shall design, develop, and fabricate systems designed to provide a dense, realistic, electromagnetic (radio frequency) environment to be used by the Defense community for real-time aircrew tactical training and test and evaluation of defense suppression systems, electronic warfare (EW) systems, electronic countermeasures (ECM) equipment, and electronic counter-countermeasures (ECCM) equipment in accordance with the CES II Basic SOW, paragraph 1.3.

Specifically, the Contract shall fabricate, test and deliver I-Band Magnetron Modulators with updated documentation and test result reports.

The Contractor shall provide engineering and technical support to repair I-Band Magnetron Modulators. These efforts may require contractor procurement or fabrication and installation of test equipment, prototype replacement, spare or repair parts.

2.0 APPLICABLE DOCUMENTS

2.1 Specifications/ Technical Requirements Documents

- 2.1.1 I-Band Magnetron Modulators Specifications dated 13 July 01
- 2.1.2 I-Band Magnetron Modulator Operating and Maintenance Manual
- 2.1.3 I-Band Magnetron Modulator Drawing

3.0 REQUIREMENTS. The Contractor shall provide a minimum of **one (1)** and a maximum of **forty (40)** I-Band Magnetron Modulators.

3.1 The Contractor shall fabricate, test and deliver hardware, test results and documentation for the I-Band Magnetron Modulators. The Modulators shall be built, tested and documentation updated in accordance with the Government provided specifications in accordance with **Applicable Documents 2.1.1 and 2.1.2.** Tasking shall include fabrication; testing, tests results reporting, documentation updates reflecting current designs/fabricated subsystems; and verification and validation of existing design documentation. This effort shall be performed to the standards of ISO-9000.

3.2 The Contractor shall provide the Operating and Maintenance Manual Applicable **Doc 2.1.2** in accordance with **CDRLS A001 and A002**. The Operating and Maintenance Manual contains a general description of the I-Band Magnetron Modulator including the operation of all major subassemblies, functional block diagrams, schematics, assembly drawings sufficient to identify all components shown on the schematics, parts lists, external form factor drawings including connector and mounting locations.

3.2.1 The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with **CDRL A001**. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system at a level of detail sufficient for additional modulator procurement in accordance with **CDRL A002**. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.2.2 All units shall be delivered with the test data as defined in **Applicable Document 2.1.1**, paragraphs 3.2.1, 3.2.2 and 4.3 in accordance with **CDRLs A001 and A002**.

3.3 I-Band Magnetron Modulator Repair: The Contractor shall provide engineering and technical support to repair I-Band Magnetron Modulators built under this and previous CES contract vehicles. These efforts may require contractor procurement of spare or repair parts. The Contractor shall perform teardown and fault analysis of defective Modulators. After the evaluation of the unit the Contractor shall provide the government with a cost, both labor and material, to repair the unit. Upon approval by the Government the Contractor shall repair, reassemble, retest and deliver the unit with test documentation back to the Government. This level of effort shall be as required by the Government but shall not exceed 2,000 hours.

4.0 SCHEDULE. Work shall commence upon award of this task order based on CLIN releases.

The period of performance for each group of units listed below will be:

Initial quantity of One (1) I-Band Magnetron Modulator: 120 days after obtaining the approval required by 3.2.1

Two (2) or more units I-Band Magnetron Modulator: 120 days after government approval for 2 units and 2 units each 30 days thereafter.

5.0 SPEICAL CONSIDERATIONS:

5.1 Technical Coordinator:

The Technical Coordinator for this task order is:
Phil Cooper philmore.cooper@navy.mil
Code 531500E
NAWCWPNS, Pt Mugu, CA
Telephone (805) 982-2374

5.2 Drawings. The drawings listed in **Applicable Doc. 2.1.3.** will be provided as Government Furnished Data (GFD) to the Contractor. The Contractor shall identify any additional required data during the course of work. The Contractor shall identify documentation that is maintained at the Contractor's facility.

5.3 Government Furnished Property: The Government will furnish all magnetron tubes required for testing.

SFD-349 Magnetron 1 ea. Cost \$3,500.00

5.4 Security Classification. UNCLASSIFIED

5.5 Travel. Non-local travel may be required in the performance of this task order to participate in technical interchange meetings and to research/gather technical information at Point Mugu. Attendance at Technical Interchange Meetings during the planning, production and testing phases of these units. On site at Pt. Mugu, CA is required within 72 hours of initial government request. Travel estimates shall be based upon a maximum of 18 trips for three (3) people to Pt. Mugu, CA.

Approval for travel other than that indicated in this SOW shall be obtained in writing from the Technical Coordinator (TC) or the Technical coordinator's authorized representative, in advance of travel. Cost associated with any travel not so approved will be disallowed.

5.6 Data Deliverables and Reports. The following data items shall be delivered with the I-Band Magnetron Modulators in accordance with **CDRLs A001, A002 and A003:**

5.6.1 All units shall be delivered with the test data as defined in Applicable Document 2.1.1, paragraphs 3.2.1, 3.2.2 and 4.3 in accordance with **CDRLs A001 and A002.**

5.6.2 The Contractor will deliver an updated version of Operating and Maintenance Manual, Applicable Doc. 2.1.2 in accordance with **CDRLs A001 and A002.**

5.6.3 In support of this task order, the Contractor will deliver a monthly status report that includes a summary of work performed, problems encountered, problems resolved, current schedules and information, including period and cumulative funds/hours expended, in accordance with **CDRL A003**. This report will be provided to the Technical Coordinator no later than 10 working days following the end of the Contractor's monthly accounting period.

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-04-D-0020		2. DELIVERY ORDER/ CALL NO. 0002		3. DATE OF ORDER/ CALL (YYYYMMDD) 2005 Aug 05		4. REQ./ PURCH. REQUEST NO. See Schedule		5. PRIORITY			
6. ISSUED BY CDR NAWCWD CODE 220000D ATTN: B. MONCKTON (760) 939-8234 429 E BOWEN RD - STOP 4015 CHINA LAKE CA 93555-6108			CODE N68936	7. ADMINISTERED BY (if other than 6) DCMA LOCKHEED MARTIN DELAWARE VALLEY 1 FEDERAL ST M S AE 2 W CAMDEN NJ 08102-1013			CODE S3110A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)			
9. CONTRACTOR NAME LOCKHEED MARTIN SERVICES INC AND STEVEN A. SUSSMAN ADDRESS 2339 ROUTE 70 WEST, FLOOR 3W CHERRY HILL NJ 08002-3315				CODE 77609	FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED		
14. SHIP TO SEE SCHEDULE				15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER NORTH ENTITLEMENT OPERATIONS PO BOX 182266 COLUMBUS OH 43218-2266		CODE HQ0337	13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15				
16. TYPE OF ORDER DELIVERY/ CALL <input checked="" type="checkbox"/> PURCHASE <input type="checkbox"/> This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. Reference your quote dated _____ Furnish the following on terms specified herein. REF: _____ ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.											
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)		
<input checked="" type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies: 1											
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule											
18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE		23. AMOUNT		
SEE SCHEDULE											
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: (760) 939-6043 EMAIL: mary.jacobs@navy.mil BY: MARY K. JACOBS			<i>Mary Jacobs</i> CONTRACTING / ORDERING OFFICER		25. TOTAL	26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED											
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS		
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS			<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR		
36. I certify this account is correct and proper for payment.											
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER			31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		34. CHECK NUMBER		35. BILL OF LADING NO.		
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

COMBAT ENVIRONMENT SIMULATION - BASE PERIOD

CPAF

AEWTTR. In accordance with Attachment (1), Statement of Work.

FOB: Destination

MILSTRIP: N0001905WX01283

PURCHASE REQUEST NUMBER: 0010144099

MAX COST
 BASE FEE
 SUBTOTAL MAX COST + BASE
 MAX AWARD FEE
 TOTAL MAX COST + FEE

[] b(4)
 \$26,991,650.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000101		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR Product Line 3.4 "Threat System Verification." In accordance with Statement of Work.

FOB: Destination

MILSTRIP: N0001905WX01283

PURCHASE REQUEST NUMBER: 0010144099

ACRN AA
CIN: 001014409900001

\$100,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000102		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED
FOR NAVY ACCOUNTING PURPOSES ONLY					
CPAF					
AEWTTR Product Line 3.8 "TRS Coastal Radar 10010601A." In accordance with Statement of Work.					
FOB: Destination					
MILSTRIP: N0001904PX02187					
PURCHASE REQUEST NUMBER: 0010144100					
ACRN AB					\$100,000.00
CIN: 001014410000001					

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000103		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED
FOR NAVY ACCOUNTING PURPOSES ONLY					
CPAF					
AEWTTR Product Line 3.8 "TRS Coastal Radar 1001060A4." In accordance with Statement of Work.					
FOB: Destination					
MILSTRIP: N0001904PX01770					
PURCHASE REQUEST NUMBER: 0010144100					
ACRN AC					\$100,000.00
CIN: 001014410000002					

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000104		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR Product Line 3.8. "TRS EW/ACQ Radar." In accordance with Statement of Work.

FOB: Destination

MILSTRIP: N0001904PX02187

PURCHASE REQUEST NUMBER: 0010144100

ACRN AD

CIN: 001014410000003

\$50,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000105		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR Coastal Threat System Initial Spares. In accordance Product Line 3.6 and with Statement of Work.

FOB: Destination

PURCHASE REQUEST NUMBER: 0010143777

ACRN AE

CIN: 001014377700001

\$548,426.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000106		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR. Reactive Threat Radar Emitter System. Per Product Line 3.1. In accordance with Statement of Work.

FOB: Destination

PURCHASE REQUEST NUMBER: 0010143205

ACRN AF

CIN: 001014320500001

\$1,105,280.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000107		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR. TACTS/LATR hardware/software compatibility China Lake Coast Threat Systems. Product Line 3.8. In accordance with Statement of Work.

FOB: Destination

MILSTRIP: N0001904PX02187

PURCHASE REQUEST NUMBER: 0010145431

ACRN AG

CIN: 001014543100001

\$116,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000108		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR. TACTS/LATR hardware/software compatibility China Lake Coast Threat Systems. Product Line 3.8. In accordance with Statement of Work.

FOB: Destination

MILSTRIP: N0001904PX02187

PURCHASE REQUEST NUMBER: 0010145431

ACRN AH

CIN: 001014543100002

\$115,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000109		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

AEWTTR. Threat Systems. Product Line 3.8. In accordance with Statement of Work.

FOB: Destination

MILSTRIP: N0001905WX01283

PURCHASE REQUEST NUMBER: 0010145431

ACRN AJ

CIN: 001014543100003

\$37,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT	
000110		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED	
	FOR NAVY ACCOUNTING PURPOSES ONLY					
	CPAF					
	AEWTTR. Technical Support. In accordance with Product Line 3.12 and Statement of Work.					
	FOB: Destination					
	MILSTRIP: N0001904PX01770					
	PURCHASE REQUEST NUMBER: 0010145360					
	ACRN AK					\$36,000.00
	CIN: 001014536000001					

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT	
000111		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED	
	FOR NAVY ACCOUNTING PURPOSES ONLY					
	CPAF					
	AEWTTR. Technical Support. In accordance with Product Line 3.12 and Statement of Work.					
	FOB: Destination					
	MILSTRIP: N0001904PX01770					
	PURCHASE REQUEST NUMBER: 0010145360					
	ACRN AL					\$64,000.00
	CIN: 001014536000002					

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT	
000112		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED	
	FOR NAVY ACCOUNTING PURPOSES ONLY					
	CPAF					
	AEWTTR. Reactive TRES System initial spares. Per Product Line 3.6. In accordance with Statement of Work.					
	FOB: Destination					
	PURCHASE REQUEST NUMBER: 0010144097					
	ACRN AM					\$253,386.00
	CIN: 001014409700001					

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT	
000113		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED	
	FOR NAVY ACCOUNTING PURPOSES ONLY					
	CPAF					
	AEWTTR. Coastal Threat System Analysis and Assessment. Per Product Line 3.1. In accordance with Statement of Work.					
	FOB: Destination					
	PURCHASE REQUEST NUMBER: 0010144151					
	ACRN AN					\$535,761.00
	CIN: 001014415100001					

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002	DATA REQUIREMENTS CPAF In accordance with Contract Data Requirements List. NSP - Not Sepatarely Priced FOB: Destination	UNDEFINED			NSP

NOTE

BASE FEE AND AWARD FEE FOR LEVEL-OF-EFFORT ORDER

In accordance with the basic contract, base fee shall for work performed under this order is

CLIN	Base Fee Amount	Hours Per Level of Effort	Hourly Fee Rate
0001	[]	[]	[]

b(4)

provided that the maximum number of direct labor hours are expended.

The nature of the work under this task order is level-of-effort. As such, milestones defining specific outcomes cannot be defined in terms of quantity and schedule with any certainty. Funding may be obtained from a variety of sources as work is required. Therefore, the award fee pool available in any given evaluation period will be associated with the level-of-effort expended during that period.

The first award fee period will be from date of award to March 31, 2006. Thereafter, award fee will be paid on a biannual (six month) basis (October thru March, April thru September). In addition to the base fee set forth herein, the contractor may earn and be paid all or a portion of an award fee not to exceed [] provided that approximately [] direct labor hours are expended by the contractor. The maximum available award fee pool for any award fee period will be computed at the maximum rate of [] per direct hour invoiced by the contractor under the task order for the related award fee period. If less than 100% of the direct labor hours for the tasks are expended the fee shall be equitably reduced to reflect the reduction in work.

b(4)

The Contractor is to set aside an award fee amount from each funding SLIN based on the level of effort for the associated task.

NOTE:

This order is placed against CLIN 0001 of the Basic Contract.

This order is determined to be **NONSEVERABLE**.

In accordance with 52.244-2(e) SUBCONTRACTS of the basic contract, the Contracting Officer's written consent is required for subcontracts valued at \$50,000 or greater for this order.

Section C - Descriptions and Specifications

STATEMENT OF WORK

See Attachment (1) AEWTRR CES II Electronic Warfare Ranges Upgrades Statement of Work.

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
000102	Destination	Government	Destination	Government
000103	Destination	Government	Destination	Government
000104	Destination	Government	Destination	Government
000105	Destination	Government	Destination	Government
000106	Destination	Government	Destination	Government
000107	Destination	Government	Destination	Government
000108	Destination	Government	Destination	Government
000109	Destination	Government	Destination	Government
000110	Destination	Government	Destination	Government
000111	Destination	Government	Destination	Government
000112	Destination	Government	Destination	Government
000113	Destination	Government	Destination	Government
0002	N/A	N/A	N/A	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 05-AUG-2005 TO 30-SEP-2008	N/A	CDR NAWCWD CODE 535000D DWAINE CAMPBELL 1 ADMIN CIRCLE - STOP 1106 CHINA LAKE CA 93555-6100 (760) 939-0294 FOB: Destination	N68936
0002	POP 05-AUG-2005 TO 31-OCT-2008	N/A	N/A FOB: Destination	

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 257 77777 0 054219 2F 000000
COST CODE: 011188990060
AMOUNT: \$100,000.00
CIN 001014409900001: \$100,000.00

AB: 97X4930 NH2C 257 77777 0 054219 2F 000000
COST CODE: 011052310020
AMOUNT: \$100,000.00
CIN 001014410000001: \$100,000.00

AC: 97X4930 NH2C 257 77777 0 054219 2F 000000
COST CODE: 011144840030
AMOUNT: \$100,000.00
CIN 001014410000002: \$100,000.00

AD: 97X4930 NH2C 257 77777 0 054219 2F 000000
COST CODE: 010712340020
AMOUNT: \$50,000.00
CIN 001014410000003: \$50,000.00

AE: 1751810 48JC 311 00019 0 050119 2D 000000
COST CODE: AIR30E831000
AMOUNT: \$548,426.00
CIN 001014377700001: \$548,426.00

AF: 1751810 43SC 312 00019 0 050119 2D 000000
COST CODE: PMA205E48140
AMOUNT: \$1,105,280.00
CIN 001014320500001: \$1,105,280.00

AG: 97X4930 NH2C 252 77777 0 054219 2F 000000
COST CODE: 011052310020
AMOUNT: \$116,000.00
CIN 001014543100001: \$116,000.00

AH: 97X4930 NH2C 252 77777 0 054219 2F 000000
COST CODE: 010712340020
AMOUNT: \$115,000.00
CIN 001014543100002: \$115,000.00

AJ: 97X4930 NH2C 252 77777 0 054219 2F 000000
COST CODE: 011189040060
AMOUNT: \$37,000.00
CIN 001014543100003: \$37,000.00

AK: 97X4930 NH2C 252 77777 0 054219 2F 000000
COST CODE: 011144840030
AMOUNT: \$36,000.00
CIN 001014536000001: \$36,000.00

AL: 97X4930 NH2C 252 77777 0 054219 2F 000000
COST CODE: 010701680020
AMOUNT: \$64,000.00
CIN 001014536000002: \$64,000.00

AM: 1751810 48JC 311 00019 0 050119 2D 000000

COST CODE: AIR30E829000
AMOUNT: \$253,386.00
CIN 001014409700001: \$253,386.00

AN: 1751810 43SC 252 00019 0 050119 2D 000000
COST CODE: PMA205E48160
AMOUNT: \$535,761.00
CIN 001014415100001: \$535,761.00

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	AEWTTR Statement of Work	9	13-MAY-2005
Attachment 2	AEWTTR Integrated Project Baseline	13	13-MAY-2005
Attachment 3	GPQ Development Specification (SDS-T13900)	37	27-JULY-2004
Attachment 4	AEWTTR Integrated Program Plan	29	13-MAY-2005
Exhibit A	Contract Data Requirements List	2	13-MAY-2005

AEWTTR CES II ELECTRONIC WARFARE RANGES UPGRADES

STATEMENT OF WORK – NONSEVERABLE

for the

AIRCREW ELECTRONIC WARFARE TACTICAL TRAINING RANGES
(AEWTTR) PROJECT

13 May 2005

Attachment (1)

1.0 BACKGROUND. The Aircrew Electronic Warfare Tactical Training Range (AEWTTR) project office at the Naval Air Systems Command Weapons Division (NASC-WD) China Lake has been designated lead field activity for electronic warfare (EW) development of the Aircrew Electronic Warfare Tactical Training Range (AEWTTR) project. AEWTTTR is responsible for the development and upgrade of threat simulator systems and capabilities for Naval Aircrew EW Tactical Training Ranges.

This SOW addresses upgrades to EW Ranges with additional AN/GPQ-11(V), and interface upgrades of the AN/GPQ-11(V). The AN/GPQ-11(V) is the principal threat simulator radar system designed specifically for interface to, and use on, US Navy aircrew training ranges. The AN/GPQ-11(V) is integral to the Tactical Air Combat Training System (TACTS) Navy ranges EW training.

1.1 SCOPE. This SOW defines the product items required to support the Naval Aircrew EW Tactical Training Ranges as provided for under the basic Combat Environment Simulation II (CES II) contract. An associated Integrated Program Plan contains the appropriate tasks and data requirements for each Product Item, along with additional requirements descriptions.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

The most current AEWTTTR Program CES II EW Range Upgrades IPB and the AEWTTTR CES II EW Range Upgrades IPP shall further define the scope of the deliverable items, tasks, work level, and responsibilities of the contractor.

2.0 APPLICABLE DOCUMENTS

The following Documents are applicable in the performance of this SOW:

- 2.1 “AN/GPQ-11(V) System Development Specification” SDS-T13900
- 2.2 “Interface Design Specification (IDS), SDS-T13900 Appendix I
- 2.3 “Tactical Aircrew Combat Training System (ICD) Interface Control Document” ICD 7920
- 2.4 “Statement of Work for CES II Electronic Warfare Range Upgrades”
- 2.5 Most current CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Baseline (IPB)
- 2.6 EIA-649, National Consensus Standard for Configuration Management
- 2.7 MIL-HDBK-61A(SE), Military Handbook Configuration Management Guidance
- 2.8 MIL-STD-973, Military Standard Configuration Management
- 2.9 TS-T17980, Electronic Warfare Tactical Training Range Architecture Study

3.0 REQUIREMENTS:

The contractor shall perform the required tasks to deliver the following Product Items:

1. AN/GPQ-11 (V) / Reactive Track and EW / Threat Systems– Product Item # 3.1
2. AN/GPQ-11 (V) and EW / Threat Depot Level Support – Product Item # 3.2
3. Threat EW Range Architecture, TENA and Threat Interfaces – Product Item # 3.3
4. Threat System Parameter Verification, Updates & Maintenance – Product Item # 3.4
5. AN/GPQ-11 (V) and EW / Threat Equipment Upgrades – Product Item # 3.5
6. AN/GPQ-11 (V) and EW System Initial Spares – Product Item # 3.6
7. Threat / EW Range Infrastructure Upgrades – Product Item # 3.7
8. Threat Range Instrumentation Integration – Product Item # 3.8
9. Smart Targets / Multi-Spectral Threats and Threat Integration – Product Item # 3.9
10. Prototypes, Demonstrations and Studies– Product Item # 3.10
11. JNTC, Fleet Exercises, and Battle Experiment Integration – Product Item # 3.11
12. Threat and Threat System Instrumentation Technical Support– Product Item # 3.12

In all cases, the most current IPB with associated responsibilities and work levels as defined in the IPP, and the IPP program specific appendix shall apply (see Applicable Documents 2.1 thru 2.9). The contractor shall perform in accordance with the current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Baseline (IPB) and all other Applicable Documents 2.1 – 2.9.

3.1 AN/GPQ-11 (V) / Reactive Track and EW / Threat Systems - Product Item # 3.1

The contractor shall produce and provide additional reactive track upgrades for systems currently fielded. These reactive track upgrades shall follow the hardware and software baselines currently being developed under CES-I Task Order 05. These reactive track upgrades shall be accomplished in accordance with the current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Baseline (IPB) and all other Applicable Documents 2.1 – 2.9.

The contractor shall produce and provide additional AN/GPQ-11(V) threat variants and various types of EW threat systems to simulate various world wide threats including such threats as the Russian SA-2, SA-10, SA-13, SA-15, and the Chinese KS-1, HQ-7, LY60, PL9D, related systems and others , in accordance with applicable Documents 2.1 thru 2.9.

The contractor shall provide additional; basic, reactive track, and upgraded systems of currently fielded AN/GPQ-11 threat radar simulators such as those simulating the SA-3, SA-5, SA-6, SA-8, SA-11, SA-19, Crotale, Crotale NG, Roland, numerous AAA radars and others, in accordance with applicable Documents 2.1 thru 2.9.

The contractor shall develop and/or provide other threat systems of various types and range instrumentation devices and equipment, as defined by the latest version of the Integrated Product Plan and Integrated Product Baseline applicable documents 2.4 and 2.5.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.2 AN/GPQ-11 (V) and EW / Threat Systems Depot Level Support– Product Item # 3.2

The contractor shall establish and maintain a depot like environment for accomplishing AN/GPQ-11 (V), EW and other threat systems equipment updates. The contractor shall maintain the government approved system configuration for hardware and software baselines at all times. The contractor shall track changes and perform all necessary hardware and software work required to accomplish the updates. The contractor shall provide hardware updates and modifications to AN/GPQ-11 (V), EW and other threat systems. The contractor shall provide the depot like environment and capability necessary to accomplish this work in accordance with applicable Documents 2.1 thru 2.9.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.3 Threat / EW Range Architecture, TENA and Threat Interfaces- Product Item # 3.3

The contractor shall analyze and assess Threat / EW Architecture/ TENA efforts supporting the development of the Navy's Threat / EW architecture including the development Training and Test Enabling Architecture (TENA) object models in accordance with applicable Documents 2.1 thru 2.9. This effort includes the production of hardware, software, and integrated solutions, to extending and developing the EW architecture. The EW communication architecture shall be examined to provide solutions for physical connectivity. TENA object models and/or the software to use these models will be provided for communications connectivity.

The contractor shall provide Threat / EW range communications and connectivity interfaces including range interface boards such as the Range Interface Board (RIB), threat and range gateway TENA interfaces, red / black interfaces, trusted guard interfaces, encryption interfaces, and others. The contractor shall accomplish these efforts on both Navy ranges and on Joint

ranges such as the Joint National Training Capability (JNTC), including major exercises and battle experiments.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.4 Threat System Parameter Verification, Updates and Maintenance- Product Item # 3.4

The contractor shall obtain and maintain a record of tactical training range threat system parameters and verify electronic compatibility between these systems and various avionics and collection systems in accordance with applicable Documents 2.1 thru 2.9. The contractor shall establish a controlled and efficient methodology for accomplishing these verification efforts. The contractor shall track and monitor changes to the avionics systems libraries and the actual range threat systems. The contractor shall update range threat systems as necessary as part of the verification process.

These field and laboratory efforts shall also include Threat / EW Range system characterization and verification by comparison to the threat systems operational parameters and those associated with various avionics and collection systems. The contractor shall provide necessary threat engineering expertise to verify current training range EW system assets. The contractor shall perform engineering analysis design and upgrades in order to provide a verified capability.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.5 AN/GPQ-11 (V) and EW / Threat Equipment Field Upgrades: Product Item # 3.5

The contractor shall provide AN/GPQ-11 and EW / Threat systems equipment upgrades for systems previously fielded. The contractor shall provide engineering analysis, design, production and delivery of field upgrades for AN/GPQ-11 and EW / Threat systems equipment in accordance with applicable Documents 2.1 thru 2.9. These upgrades shall provide for enhanced and optimized AN/GPQ-11 (V) and EW / Threat system equipment operation.

The contractor shall provide upgrades for the modification and technology refreshment of existing AN/GPQ-11 and EW / Threat systems that improves the system's performance envelope and extends its service life. The contractor shall provide upgrades including capabilities such as but not limited to visual, EO, IR, UV and Multi-Spectral cues, stimulation and capabilities.

The contractor shall perform field upgrades for Threat / EW Range Systems. This work includes the engineering and design of the upgrades for the Threat / EW Range Systems. These upgrades will include interface, computer, and software upgrades as well as transmitter, receiver, and hardware upgrades including pedestals and mobility systems.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.6 AN/GPQ-11 (V) / EW Initial Spares: - Product Item # 3.6

The contractor shall provide initial spares for AN/GPQ-11(V) systems and other systems and upgrades that are described in the SOW; and for those that are being procured under the previous contract (e.g., CES I - T.O. 05 - FRP TRS).

This includes delivery of initial spare assemblies and parts for current work in process systems including the on-going AN/GPQ-11(V)12, AN/GPQ-11(V)13, and for AN/GPQ-11(V) systems upgraded with reactive track and mobility capabilities, EW Muxes, etc. and other contractually related work under the CES and CES II contracts in accordance with applicable Documents 2.1 thru 2.9.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.7 Threat / EW Range Infrastructure Upgrades #3.7

The contractor shall provide Threat / EW range infrastructure products including: communication systems / networking systems , sites, shelters, power production and power distribution systems, towers, control centers, and other related systems as required to integrate and operate Threat / EW Range systems in accordance with applicable documents 2.1 thru 2.9.

The contractor shall also provide Threat / EW range mobile connectivity required to conduct training in a mobile and dynamic environment. The contractor shall provide the equipment and connectivity necessary to accommodate operation of range Threat / EW and instrumentation systems. This includes both short and long range data, voice and video communication systems in order to accomplish both tightly and loosely integrated systems.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.8 Threat Range Instrumentation Integration – Product Item # 3.8

The contractor shall perform Tactical Air Combat Training System (TACTS) Common CCS / EW Server to Threat systems integration in accordance with applicable documents 2.1 thru 2.9.

This includes all necessary and related work regarding the related processors, networking, software, red/black separation, EW Server threat integration software development, and threat integration with pairing, control, set-up, and configuration systems. This work shall be accomplished in support of the AEWTTTR program and in accordance with applicable government SSA policies and procedures.

The contractor shall provide EW Server / CCS Processor products that enhance the EW functionality and interface capabilities as needed to integrate new AEWTTTR EW / Threat systems. The contractor shall provide the software integration of both manned and unmanned range threat systems. The contractor shall provide EW surface-to-air weapons simulations, Integrated Air Defense System (IADS), and other weapons interfaces / models. The contractor shall also provide EW threat /EW Mux / EW Server interfaces, modernization, integration and enhancements for use with the CCS, EW Server and TCTS (P5) in accordance with applicable government SSA policies and procedures.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.9 Smart Target / Multi Spectral Threats and Range Instrumentation Integration – Product Item # 3.9

The contractor shall provide smart targets/multi spectral threats and related instrumentation and range integration in accordance with applicable documents 2.1 thru 2.9. The contractor shall provide smart targets/multi spectral threats including capabilities such as but not limited to UV, IR, EO, visual, and other multi-spectral; - cues, stimulation and other related capabilities.

The contractor shall provide upgrades to existing AN/GPQ-11(V) and EW / Threat systems that provide smart targets/multi spectral capabilities such as but not limited to, UV, IR, EO, visual, and other cues.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.10. Prototypes, Demonstrations and Studies– Product Item # 3.10

The contractor shall maintain and provide threat and threat system instrumentation engineering and technical expertise necessary as components of technical approaches to technical issues and needed to produce prototypes, demonstrations and studies in accordance with applicable documents 2.1 thru 2.9. The contractor shall perform demonstrations and studies including necessary prototype work.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.11. JNTC, Fleet Exercises, and Battle Experiment Integration – Product Item # 3.11

The contractor shall maintain and provide threat and threat system instrumentation engineering and technical expertise necessary to analyze, assess, and synthesize technical approaches to the execution of JNTC, Fleet Exercises, and Battle Experiment Integration. Threat system integration expertise shall be maintained and provided in accordance with applicable documents 2.1 thru 2.9. The contractor shall perform JNTC, fleet exercise, and battle experiment integration.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

3.12 Threat and Threat System Instrumentation Technical Support– Product Item # 3.12

The contractor shall provide threat system instrumentation engineering and technical expertise necessary to support production, integration efforts and provide recommendations on various acquisition strategies to support the integration of the threat systems and associated risk to the program. The contractor shall perform threat and threat system instrumentation technical support in accordance with applicable documents 2.1 thru 2.9.

The contractor shall adhere to the requirements, assigned tasks, and deliver the products and data items outlined in AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Project Plan (IPP), Applicable Doc 2.4 and the most current AEWTTTR CES II Electronic Warfare (EW) Ranges Upgrades Integrated Program Baseline (IPB) Applicable Doc 2.5.

4.0 OTHER CONSIDERATIONS

4.1 Government Furnished Items

Facilities: A radar test site (three phase power/interface for TACTS testing) at NAWC-WD
Data: The EWIR Threat Specifications and other threat assessment documents will be made accessible for use in performance of this Task Order. .

Materials: There are no GFE materials

4.2 Travel

The contractor shall be required to travel in the performance of this Task Order. The Government estimates travel to consist of the travel called out in the most current AEWTTTR CES II EW Ranges Upgrades IPB Applicable Document 2.5.

4.3 Security

The performance of this SOW requires handling of information classified up to the SECRET level.

4.4 Performance Schedule

Work shall commence upon award of this task order. The delivery schedule shall be based upon the date of completion of Government acceptance of the final delivery as specified within the most current AEWTTR CES II EW Ranges Upgrades IPB Applicable Document 2.5.

4.5 Monthly Status Report (CDRL A001)

In support of this task order, the contractor shall deliver a monthly earned value Cost, Schedule and Status Report (C/SSR) in accordance with **CDRL A001**. The contractor shall deliver a monthly status report that includes a summary of the work performed, problems encountered, problems resolved, current schedules, and time and cost information, including reporting period and cumulative funds and hours planned and expended. This report shall be provided to the Technical Coordinator no later than 10 working days following the end of the contractor's monthly accounting period.

The contractor shall provide Work Breakdown Structure (WBS) items to the forth level for the purpose of earned value reporting. The contractors format is acceptable.

An example of WBS third level is shown below.

3.2 System (e.g. V12 radar) [2nd level]

3.2.1 Subsystem (e.g. Transmitter subsystem) [3rd level]

1) Task accomplishments (earned value compared with schedule and costs)

2) Problems encounter/resolved

3.2.1.1 Major Component or Major subtask (e.g. RF Tube or transmitter integration) [4th level]

4.6 Technical Coordinators

Technical Coordinator
Dwayne Campbell
NASC-WD, China Lake, CA
(760) 939-0294
Dwayne.Campbell@navy.mil

Alternate Technical Coordinator
Marge Vargus
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(760) 939-0283
Marjorie.Vargus@navy.mil