ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO.	2. DELIVERY ORDER/ CALL NO.	3. DATE OF ORDER/CALL (YYYYMMMDD)	4. REQ./ PURCH. REQUEST NO.	5. PRIORITY
N68936-04-D-0022	0001	2005 Aug 03	See Schedule	

6. ISSUED BY CODE N68936
CDR NAWCWD CODE 220000D
ATTN: B. MONCKTON
(760) 939-8234
429 E BOWEN RD - STOP 4015
CHINA LAKE CA 93555-6108

7. ADMINISTERED BY *(if other than 6)* CODE S2404A
DCMA VIRGINIA
DCMA-GVD
10500 BATTLEVIEW PKWY
SUITE 200
MANASSAS VA 20109-2342

8. DELIVERY FOB
[X] DESTINATION
[ ] OTHER
(See Schedule if other)

9. CONTRACTOR CODE 7Z726 FACILITY
NAME AND ADDRESS
L-3 COMMUNICATIONS GOVERNMENT SERVICES,
JOANNE NEWMAN
3750 CENTERVIEW DRIVE
CHANTILLY VA 20151

10. DELIVER TO FOB POINT BY (Date) (YYYYMMMDD)
SEE SCHEDULE

11. MARK IF BUSINESS IS
[ ] SMALL
[ ] SMALL DISADVANTAGED
[ ] WOMEN-OWNED

12. DISCOUNT TERMS

13. MAIL INVOICES TO THE ADDRESS IN BLOCK
See Item 15

14. SHIP TO CODE
SEE SCHEDULE

15. PAYMENT WILL BE MADE BY CODE HQ0338
DFAS - COLUMBUS CENTER
SOUTH ENTITLEMENT OPERATIONS
PO BOX 182264
COLUMBUS OH 43218-2264

MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.

16. TYPE OF ORDER

DELIVERY/ CALL	X	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		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 (YYYYMMMDD)

[X] 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
Mary Jacobs
CONTRACTING / ORDERING OFFICER

25. TOTAL $1,252,007.00
26. DIFFERENCES

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 (YYYYMMMDD) | 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

[ ] PARTIAL
[ ] FINAL

32. PAID BY

33. AMOUNT VERIFIED CORRECT FOR

36. I certify this account is correct and proper for payment.

a. DATE (YYYYMMMDD) | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER

31. PAYMENT
[ ] COMPLETE
[ ] PARTIAL
[ ] FINAL

34. CHECK NUMBER

35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMMDD)	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

In accordance with Statement of Work. CES II - Millimeter Wave Power Module (MMPM).

FOB: Destination

PURCHASE REQUEST NUMBER: 0010134209

ADDITIONAL MARKINGS: ATS Receiving Desk, Code 539400E

MAX COST	[b(4)]
BASE FEE	
SUBTOTAL MAX COST + BASE	[b(4)]
MAX AWARD FEE	
TOTAL MAX COST + FEE	$1,252,007.00

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

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

MMPM Amp. In accordance with Statement of Work.

FOB: Destination

MILSTRIP: N6312605P7PW109

PURCHASE REQUEST NUMBER: 0010141225

ACRN AA
CIN: 001014122500001

[b(4)]

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002		UNDEFINED			NSP

DATA

CPAF

Data Requirements in accordance with Exhibit A - CDRL.

Not Separately Priced

FOB: Destination

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	
0001	[b(4)]	[b(4)]	[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 will 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 [b(4)] provided that approximately [b(4)] 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 [b(4)] 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.

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 $50,000.00 or greater for this order.

Section C - Descriptions and Specifications

CLAUSES INCORPORATED BY FULL TEXT

C.36 CONFIGURATION CONTROL PROCEDURES FOR ENGINEERING CHANGES, DEVIATIONS AND WAIVERS - MIL-STD-973

(a) Any Engineering Change Proposal (ECP) or any Request for a Deviation/Waiver affecting an item being acquired under this contract shall be in accordance with Sections 5.4.2 (ECP), 5.4.3 (Deviation), 5.4.4 (Waiver) or MIL-STD-973, Notice 3, dated 13 January 1995 . Quantities and distribution shall be as stated in DD Form 1423 (Contract Data Requirements List), or the ECP distribution list attached thereto.

(b) No Class I engineering change shall be implemented until authorized by the Contracting Officer (CO).

(c) Each Class II engineering change shall be submitted to the cognizant contract administration office (CAO) for concurrence in classification.

(d) No major or critical deviation or waiver shall be effective until authorized in writing by the CO.

(e) Minor deviations shall be authorized (or disapproved) by [Technical Coordinator, Code 539400E, NAWCWD Point Mugu, CA].

(f) Minor waivers shall be processed by the local Material Review Board (MRB), when properly constituted, or in the absence of such MRB, shall be approved (or disapproved) by ACO.

(g) Notwithstanding paragraph 5.4.2.3.1.3 of MIL-STD-973, no Class I compatibility engineering change shall be implemented until authorized in writing by the PCO.

(h) Advance Change Study Notices (ACSNs) shall be in accordance with 5.4.2.3.3.1.2 of MIL-STD-973 when listed by attached CDRL DD Form 1423 to the contact.

(i) Any parts substitution affecting an item being acquired under this contract shall adhere to Section 5.4.5 of MIL-STD-973.

(j) Specification Change Notices (SCNs) and/or Notices of Revision (NORs) shall be in accordance with Sections 5.4.6 (SCNs) and 5.4.7 (NORs) of MIL-STD-973 when listed by attached CDRL DD Form 1423 to the contract.

C.37 CONFIGURATION CONTROL SHORT FORM PROCEDURES FOR ENGINEERING CHANGES, DEVIATIONS AND WAIVERS - MIL-STD-973

Any Engineering Change Proposal (ECP) or any Request for a Deviation/Waiver affecting an item being acquired under this contract shall be in accordance with Section 5.4.8 of MIL-STD-973. Quantities and distribution shall be as stated on DD Form 1423 (Contract Data Requirements List) or the ECP distribution list attached thereto.

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	N/A	N/A	N/A	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 03-AUG-2005 TO 03-OCT-2008	N/A	RECEIVING OFFICER GOVERNMENT REPRESENTATIVE NBVC, RECEIVING OFFICER CODE LG330/BLDG 65 311 MAIN ROAD, SUITE 1 POINT MUGU CA 93042-5033 FOB: Destination	N69232
000101	N/A	N/A	N/A	N/A
0002	POP 03-AUG-2005 TO 03-NOV-2008	N/A	N/A FOB: Destination	

CLAUSES INCORPORATED BY FULL TEXT

F-TXT-08 SHIPPING INSTRUCTIONS (POINT MUGU) (MAR 2003)

SHIP TO: NAVAL BASE VENTURA COUNTY (NBVC)
Receiving Officer, Code N41VW/BLDG 65
Contract: N68936-04-D-0022 Order 0001
Point Mugu, CA 93042-5033
Attn: ATS Receiving Deck, Code 539400E. Bldg. 3009, Room 120 Phone: (805) 989-9267
Nomenclarure: MMPM
Quantity:
Serial Number:

Failure to mark each shipping label and packing list as indicated above may result in return of shipment at your expense, or will cause a delay in processing your invoice for payment.

RECEIVING DOCK HOURS are from 0800 TO 1530, MONDAY THROUGH THURSDAY EXCLUDING HOLIDAYS WHEN THE RECEIVING DOCK WILL BE CLOSED.

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 1751319 J657 255 00019 0 050119 2D 000000
COST CODE: PMA208B43120
AMOUNT: [b(4)]
CIN 001014122500001: [b(4)]

Section H - Special Contract Requirements

CLAUSES INCORPORATED BY FULL TEXT

5252.243-9505 ENGINEERING CHANGES (NAVAIR) (JUN 1998)

(a) After contract award, the Government may solicit, and the contractor is encouraged to propose independently, engineering changes to the equipment, software specifications or other requirements of this contract. These changes may be proposed for reasons of economy, improved performance, or to resolve increased data processing requirements. However, proposed changes relating to improved performance necessary to meet increased data processing requirements of the user shall not exceed the contract requirements by more than 25%. If the proposed changes are acceptable to both parties, the contractor shall submit a price change proposal to the Government for evaluation. Those proposed engineering changes that are acceptable to the Government will be processed as modifications to the contract.

(b) This applies only to those proposed changes identified by the contractor, as a proposal submitted pursuant to the provisions of this clause. As a minimum, the following information shall be submitted by the contractor with each proposal:

(1) A description of the difference between the existing contract requirement and the proposed change, and the comparative advantages and disadvantages of each.

(2) Itemized requirements of the contract which must be changed if the proposal is adopted, and the proposed revision to the contract for each such change.

(3) An estimate of the changes in performance costs, if any, that will result from adoption of the proposal.

(4) An evaluation of the effects the proposed change would have on collateral costs to the Government such as Government-furnished property costs, costs of related items, and costs of maintenance and operation.

(5) A statement of the time by which the change order adopting the proposal must be issued so as to obtain the maximum benefits of the changes during the remainder of this contract. Also, any effect on the contract completion time or delivery schedule shall be identified.

(c) Engineering change proposals submitted to the Contracting Officer shall be processed expeditiously. The Government shall not be liable for proposal preparation costs or any delay in acting upon any proposal submitted pursuant to this clause. The contractor has the right to withdraw, in whole or in part, any engineering change proposal not accepted by the Government within the period specified in the engineering change proposal. The decision of the Contracting Officer as to the acceptance of any such proposal under this contract shall be final and shall not be subject to the "Disputes" clause of the contract.

(d) The Contracting Officer may accept any engineering change proposal submitted pursuant to this clause by giving the contractor written notice thereof. This written notice may be given by issuance of a modification to this contract. Unless and until a modification is executed to incorporate an engineering change proposal under this contract, the contractor shall remain obligated to perform in accordance with the terms of the existing contract.

(e) If an engineering change proposal pursuant to this clause is accepted and applied to this contract, an equitable adjustment in the contract price and in any other affected provisions of this contract shall be made in accordance with this clause and other applicable clauses of this contract. When the cost of performance of this contract is increased or decreased as a result of the change, the equitable adjustment increasing or decreasing the contract price shall be in accordance with the "Changes" clause rather than under this clause, but the resulting contract modification shall state that it is made pursuant to this clause.

(f) The contractor is requested to identify specifically any information contained in its engineering change proposal which it considers confidential and/or proprietary and which it prefers not to be disclosed to the public. The identification of information as confidential and/or proprietary is for information purposes only and shall not be binding on the Government to prevent disclosure of such information. Offerors are advised that such information may be subject to release upon request pursuant to the Freedom of Information Act (5 U.S.C. 552).

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment (1)	MMPM Statement of Work	7	9-MAR-2005
Attachment (2)	MMPM Specification	18	6-JUN-2005
Attachment (3)	MMPM Drawings	4	
Attachment (4)	Level of Effort	2	2-JUN-2005
Exhibit A	Contract Data Requirements List	7	10-JUN-2005

STATEMENT OF WORK

Amplifier, Milimeter Wave Power Module (MMPM)
For
Threat Electronic Attack (EA) Simulations

1.0 BACKGROUND:

The Airborne Threat Simulation Team (ATST) is responsible for the entire life-cycle management of numerous RF threat simulations ranging from electronic attack (EA) systems to emitter (radar) simulations. Customers range from Navy, Air Force and Army, to foreign governments and private-party DOD contractors. As the Project Reliance service lead for airborne emitters, the ATST provides emitter and EA systems and lifecycle support to virtually all DOD target systems. In addition, the ATST provides Fleet (Air Force and Navy) with various airborne and ground based systems for training at various levels. Fed by a close working relationship with the DOD's major intelligence offices (i.e. National Air Intelligence Center, Office of Naval Intelligence, the CIA and others) the ATST develops a flexible and robust line of products that not only keeps-up with the threat but is able to project, or lead, out-year developments in order to provide the war fighter with simulations of 'historic', new and emerging threat systems.

1.1 SCOPE:

The purpose of this task order is to obtain a minitiarized Millimeter Wave Power Module (MMPM)Amplifier operating in the 30-36 GHz frequency range. This development will significantly improve and maintain the Navy's ability to simulate threats against US forces in a dynamic electronic warfare environment. This task order includes such activities as design, development, fabrication and testing as well as future actions associated with new system development. This Statement of Work reflects current NAVAIR policies and practices, allowing offerors to propose and price a solution to known requirements.

Due to the complexity and the dynamic nature of electronic warfare, ATST anticipates that requirements and resulting objectives will change over the life of this system. Therefore, the (MMPM)Amplifier must incorporate the capability for growth, minimizing the impact and cost of the addition of new capabilities driven by growth in the threat capabilities. Throughout the life of this effort, the ATST contractor is encouraged to continuously seek ways to incorporate innovative and emerging technologies that in the most economic and efficient manner improves system and mission performance.

2.0 APPLICABLE DOCUMENTS:

The following documents are applicable in the performance of this SOW and attached appendices to the extent specified herein.

2.1 Specifications, Standards, and Handbooks:

2.1.1 Performance Specification Amplifier, Millimeter Wave Power Module 13672-ATS674C

2.2 Other Government Documents, Drawings and Publications:

2.2.1 Drawing, Amplifier, Millimeter Wave Power Module 1611AS12205 Rev A

2.2.2 Drawing, Amplifier Module 1611AS12206

2.2.3 Drawing, Electronic Power Conditioner 1611AS12207

3.0 REQUIREMENTS:

3.2 General:

The work required by this contract shall be performed in accordance with the Amplifier, Millimeter Wave Power Module (MMPM) Performance Specification, 13672-ATS674 Chereinafter referred to as the MMPM Specification and this Statement of Work (SOW).

The contractor shall design, develop, fabricate, and test two Advanced Development Models (ADM's) to meet the performance criteria detailed in the MMPM Specification and in accordance with the detailed requirements in paragraph 3.2.1 below.

3.2 Detail Tasks:

3.2.1 Design Engineering, Fabrication and Test:

3.2.1.1 Design and Engineering:

The contractor shall design and develop two ADM's of the Millimeter Wave Power Module (MMPM) in accordance with the MMPM Specification utilizing engineering trade-offs between performance, reliability, maintainability, supportability, producibility, and life cycle costs. The Millimeter Wave Power Module (MMPM) design shall include the equipment performance and physical characteristics, subsystem component location, materials, the software program design elements of a top-down design, basic module description, and interface design.

3.2.1.2 Design Analysis:

The contractor shall conduct a detailed design analysis of the selected design. Detailed physical and performance design characteristics shall be specifically addressed including the engineering decision process for using one methodology over another.

3.2.1.3 Preliminary Design Review (PDR) and Design Formalization:

The contractor shall conduct an informal Preliminary Design Review. The informal PDR will be conducted when the design is approximately 10% complete. Informal design reviews may be held at times agreed to by the government and the contractor. The Design Reviews shall be conducted at either the contractor or government's facilities, or both. The purpose of the PDR is to:

1. Determine that the preliminary design of the MMPM satisfies the performance and requirements of the hardware specifications.

2. Review the preliminary hardware specifications and engineering drawings.

3. Assess the preliminary design compatibility between the configuration item and other items of equipment, facilities, software and personnel.

4. Assess configuration item risk areas on a technical, performance, cost and schedule basis.

3.2.1.4 Critical Design Review (CDR):

The contractor shall conduct an informal Critical Design Review when the design is essentially 95% complete. At the informal CDR, the contractor shall report the status of the design, address design changes made during the fabrication process. The contractor shall incorporate all design changes approved during the CDR.

The purpose of the CDR is to:

1. Determine that the detailed design of the MMPM satisfies the performance and requirements of the hardware specifications.

2. Review the detailed hardware specifications and engineering drawings.

3. Assess the final design compatibility between the configuration item and other items of equipment, facilities, software and personnel.

4. Assess configuration item risk areas on a technical, performance, cost and schedule basis.

The CDR shall be held after detail design solutions have been formulated. The contractor shall have a plan that addresses the logistics requirements and procurement of long lead items.

In order to complete the CDR milestone, the contractor shall perform the following tasks.

1. Engineering analyses and test data supporting feasible system and sub-assembly configurations, interrelationships and end item performance.

2. Schematics for top level subassemblies, interconnections and system integration.

3. Mechanical and electrical detail design drawings.

4. Identify and justify long lead items and demonstrate an appropriate mitigation plan.

6. Identify and present risk items in terms of impact on cost, schedule and performance.

The Technical Data Package (TDP) is not a delivery. It may be in contractor format and it will remain property of the contractor.

As a result of the design analysis conducted in paragraph 3.2.1.2 and the CDR in 3.2.1.4, the contractor shall finalize and formalize the design for fabrication. Written procuring activity approval of the design is required before the contractor is authorized to proceed with ADM fabrication.

3.2.1.5 Fabrication:

The contractor shall produce two MMPM prototype units to demonstrate producibility and pre-production data package accuracy. The contractor shall interface the Millimeter Wave Power Module (MMPM) with associated components.

3.2.1.6 Test and Evaluation:

The contractor shall conduct and evaluate the results of environmental and performance tests on the ADM to demonstrate full compliance of all

equipment with the MMPM Specification. The contractor shall prepare an Acceptance Test Plan (ATP) for Government approval. The tests shall be conducted in accordance with the ATP. The tests may be conducted at the contractor's facilities or at an independent laboratory or commercial testing facility.

3.2.2 Program Management:

The contractor shall establish and maintain management operations that shall include the following areas:

1. Program Planning and Control
2. Configuration Management (CM)/Data Management (DM)
3. Management and Accountability for Government Furnished Equipment, Material or Information

The contractor shall implement and maintain a viable CM/DM program for the MMPM effort in accordance with the contractor's internal policies.

3.3 Quality Assurance:

The contractor shall implement and maintain throughout contract performance a Quality Assurance Program in accordance with the contractor's internal policies and subject to government approval.

4.0 DELIVERABLES:

Work shall commence upon award of this task order. The delivery schedule shall be based upon the date of completion of Government acceptance at NAWC-WD.

DELIVERABLE	TYPE
MMPM System ADM	Hardware
MMPM System Manual	Manual
Monthly Status Report	A001
Preliminary Design Review (PDR)	A002
Critical Design Review (CDR)	A003
Acceptance Test Plan (ATP)	A004
Test Data	A005
Deviations	A006
Engineering Change Proposal (ECP)	A007

4.1 Advanced Development Model (ADM) Schedule:

The contractor shall deliver two final ADMs for the Millimeter Wave Power Module (MMPM).

The contractor shall deliver all supporting documentation of the MMPM such as the technical manual, checkout procedures and performance specification.

4.2 Monthly Status Report (CDRL A001):

In support of this task order, the contractor shall deliver a monthly Cost Schedule and Status Report in contractor format in accordance with CDRL A001. The Contractor shall deliver a monthly status report that includes:

1. Summary of the work performed.
2. Problems encountered.
3. Problems resolved.
4. Current schedules, and time and cost information, including reporting period and cumulative funds and hours planned and expended.
5. Task order billings and payments received.

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. Email submission is preferred.

4.3 Preliminary Design Review (PDR) (CDRL A002):

The contractor shall provide the agenda and presentation material for the Preliminary Design Review (PDR) in contractor format and submitted to the Technical Coordinator.

Ten days after the conclusion of the PDR, the contractor shall submit the conference minutes in contractor format to the government.

4.4 Critical Design Review (CDR) (CDRL A003):

The contractor shall provide the agenda and presentation material for the Critical Design Review (CDR) in contractor format and submitted to the Technical Coordinator.

At the conclusion of the CDR, the contractor shall submit the conference minutes in contractor format to the government.

4.5 Acceptance Test Plan (ATP) and Test Data (CDRL A004 & A005):

The contractor shall provide an ATP in contractor format that will be submitted to the Technical Coordinator for approval prior to the start of testing.

Upon completion of testing, the contractor shall document the results by preparing a final test report. The contractor shall allow the government access to all data collected during testing upon request.

4.6 Deviations And Engineering Change Proposals (CDRL's A006 & A007):

Request for Deviations (RFD's) and Engineering Change Proposals (ECP's) of order requirements shall be prepared for all proposed deviations and changes. All RFD's and ECP's shall be submitted to the Technical Coordinator for approval.

Applies after First Article Testing.

5.0 GENERAL:

5.1 Government Furnished Data:

The government may provide additional data in the performance of this requirement at the request of the contractor. The contractor shall identify any additional data that will be required in the performance of this requirement.

5.2 Government Furnished Materials:

There is no Government Furnished Materials (GFM) associated with this task order.

5.3 Travel:

The contractor may be required to travel in the performance of this task order. The contractor shall be responsible for all transportation, billeting, and messing for contractor personnel except in those cases where government transportation, billeting, and messing are the only services available. All travel costs will be in accordance with the Joint Travel

Regulation. The government anticipates travel to the following locations.

LOCATION	PERSONNEL	DAYS	TRIPS
Point Mugu, CA	2	2	2
Various	1	2	4

5.4 Security:

The performance of this SOW is at the UNCLASSIFIED level .

5.5 Technical Coordinators:

The Technical Coordinator and Alternate Technical Coordinator for this task order are as follows:

Technical Coordinator:
Yogesh Patel
Code 534100E
NAVAIR, Pt Mugu
Telephone (805) 989-0534

Alternate Technical Coordinator:
Tom Williams
Code 539400E
NAWC-WD, Point Mugu
Telephone 805-989-3538

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO.	2. DELIVERY ORDER/ CALL NO.	3. DATE OF ORDER/CALL (YYYYMMMDD)	4. REQ./ PURCH. REQUEST NO.	5. PRIORITY
N68936-04-D-0022	0002	2006 Mar 09	0010167290	

6. ISSUED BY CODE N68936
CDR NAWCWD CODE 220000D
ATTN: B. MONCKTON
(760) 939-8234
429 E BOWEN RD - STOP 4015
CHINA LAKE CA 93555-6108

7. ADMINISTERED BY *(if other than 6)* CODE S2404A
DCMA VIRGINIA
DCMA-GVD
10500 BATTLEVIEW PKWY
SUITE 200
MANASSAS VA 20109-2342

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[X] DESTINATION
[ ] OTHER
(See Schedule if other)

9. CONTRACTOR CODE 7Z726 FACILITY
NAME AND ADDRESS
L-3 COMMUNICATIONS GOVERNMENT SERVICES,
JUDY MILLER
3750 CENTERVIEW DRIVE
CHANTILLY VA 20151

10. DELIVER TO FOB POINT BY (Date) *(YYYYMMMDD)*
SEE SCHEDULE

11. MARK IF BUSINESS IS
[ ] SMALL
[ ] SMALL DISADVANTAGED
[ ] WOMEN-OWNED

12. DISCOUNT TERMS

13. MAIL INVOICES TO THE ADDRESS IN BLOCK
See Item 15

14. SHIP TO CODE N68936
CDR NAWCWD CODE 535100D
STAN SHEFLER
1 ADMIN CIRCLE - STOP 1106
THOMPSON LAB BLDG 31433
CHINA LAKE CA 93555-6100

15. PAYMENT WILL BE MADE BY CODE HQ0338
DFAS - COLUMBUS CENTER
SOUTH ENTITLEMENT OPERATIONS
PO BOX 182264
COLUMBUS OH 43218-2264

MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.

16. TYPE OF ORDER			
	DELIVERY/ CALL	X	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		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 *(YYYYMMMDD)*

[X] 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
Mary Jacobs
CONTRACTING / ORDERING OFFICER

25. TOTAL $6,982,345.00
26. DIFFERENCES

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 *(YYYYMMMDD)* | d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE

f. TELEPHONE NUMBER | g. E-MAIL ADDRESS

28. SHIP NO. | 29. DO VOUCHER NO. | 30. INITIALS

[ ] PARTIAL
[ ] FINAL

32. PAID BY

33. AMOUNT VERIFIED CORRECT FOR

36. I certify this account is correct and proper for payment.

a. DATE *(YYYYMMMDD)* | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER

31. PAYMENT
[ ] COMPLETE
[ ] PARTIAL
[ ] FINAL

34. CHECK NUMBER

35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED *(YYYYMMMDD)*	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

CES - Large Area Tracking Range (LATR) Upgrade and Sustainment Project. In accordance with Statement of Work.

FOB: Destination

MILSTRIP: PMA205F5017

PURCHASE REQUEST NUMBER: 0010167290

MAX COST	[b(4)]
BASE FEE	
SUBTOTAL MAX COST + BASE	[b(4)]
MAX AWARD FEE	
TOTAL MAX COST + FEE	$6,982,345.00

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

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

Repackaged/resized LATR Rotary Wing (RW) Participant Instrumentation Packages (PIP). In accordance with Statement of Work. NAVAIR.

FOB: Destination

MILSTRIP: PMA205F5017

PURCHASE REQUEST NUMBER: 0010167290

ACRN AA
CIN: 001016729000001

[b(4)]

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002		UNDEFINED			NSP

DATA
CPAF
Contract Data Requirement in accordance with Exhibit A - CDRL (DD1423)
NSP - Not Separately Priced.
FOB: Destination

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	Hourly Base Fee Rate	Hours Per Level of Effort
0001	[b(4)]	[b(4)]	[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 will 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, 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 [b(4)] provided that approximately [b(4)] 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 [b(4)] 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.

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**.

Section C - Descriptions and Specifications

STATEMENT OF WORK

Work shall be in accordance with Attachment (1), 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
0002	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 09-MAR-2006 TO 12-MAY-2008	N/A	CDR NAWCWD CODE 535100D STAN SHEFLER 1 ADMIN CIRCLE - STOP 1106 THOMPSON LAB BLDG 31433 CHINA LAKE CA 93555-6100 (760) 939-0525 FOB: Destination	N68936
0002	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 1761810 43SC 312 00019 0 050119 2D 000000
COST CODE: PMA205F50170
AMOUNT: [b (4)]
CIN 001016729000001: [b(4)]

Section I - Contract Clauses

52.244-2 NOTE

In accordance with 52.244-2(e) SUBCONTRACTS of the basic contract, the Contracting Officer's written consent is required for subcontracts valued at $50,000.00 or greater for this order.

In accordance with 52.244-2(k) SUBCONTRACTS of the basic contract, the following subcontracts, which were evaluated during negotiations, are approved for use under this contract/order:
L-3 Communications Telemetry-East
Entron Systems
SAIC

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	LATR Upgrade and Sustainment Project Statement of Work	5	10-JAN-2006
Attachment 2	LATR IPB	1	15-FEB-2006
Attachment 3	Level of Effort	2	15-Feb-2006
Exhibit A	Contract Data Requirements List – DD1423	3	23-FEB-2006

Large Area Tracking Range
Upgrade & Sustainment Project
Statement of Work

Background: The Large Area Tracking Range (LATR) provides an integrated, offshore, over-the-horizon, time-space-position-information system capable of supporting tactical exercises. LATR is composed of three major systems: LATR Tracking System (LTS); LATR Computer and Debrief System (LCDS); and LATR International Maritime Satellite (INMARSAT) Position System (LIPS).

The LTS provides the capability to collect data to support evaluation and debrief of training exercises. LTS consists of the following elements: LTS Participant Element (LTSPE); and LTS Ground Element (LTSGE). The LTS uses the Relay/Reporter/Responder (R3) transponder unit to accurately survey fixed ground sites, and high speed computers to compute a track solution as a ground-based multilateration system. The R3 transponder has the ability to act as a relay, reporter and responder of range and information messages. The R3 transponder is required on each tracked vehicle and on all ground instrumentation sites.

The LCDS receives participant data consisting of TSPI and weapons data system from the LTS and LIPS and generates real-time track and data displays on the LATR Range Operations Control Center Workstation System (LRWS).

1.0 SCOPE

This statement of work (SOW) applies to LTS and LCDS and requires the contractor to provide logistics, management and engineering support to LATR current systems, subsystems, and interfaces and future upgrades and developments which include hardware, software, deployment, and maintenance.

The staffing level and need in support of this task order varies in accordance with fleet requirements as reflected in the most current Integrated Project Baseline (IPB).

2.0 APPLICABLE DOCUMENTS

2.1 Most current LATR Upgrade and Sustainment Integrated Project Baseline (IPB)
2.2 CES II contract SOW, Sep 22, 2003
2.3 LATR/R3 Technical Manual, Navair 16-30URY3A-1, Mar 03, 2004
2.4 LATR/R3 Specification, Oct 29, 1997
2.5 LATR/CM Plan

3.0 REQUIREMENTS

3.1 Logistics and Engineering: In accordance with CES II contract SOW 3.6, the contractor shall provide logistics and engineering support including in-plant and on-site diagnosis, repair and engineering support of equipment such as R3 and test equipment; software and hardware upgrades; software engineering support; training support; configuration management support; and program management support.

3.2 New Equipment: In accordance with CES II contract SOW 3.7, the contractor shall design, develop, build, and test new communication and networking equipment for the Test and Evaluation (TE) ranges and Training ranges focusing on LATR and R3 based infrastructure. This will include range support assets and associated infrastructure.

3.3 Software and Hardware: In accordance with CES II contract SOW 3.2, 3.3, 3.5, 3.7, 3.9, 4.2, the contractor shall provide the required LATR software and hardware support which include the integration of enhancements, modernization, minor upgrades, and correction to Software Problem Reports (SPRs) and Software Trouble Reports (STRs) to the LATR software and hardware. The testing of the software and hardware will follow this integration. After successful test, the software and hardware will be installed along with the necessary upgrades at the various LATR Navy ranges as a new baseline (see paragraph 4.2 of this SOW for list of ranges). The common software baseline will be updated and delivered periodically.

3.4 Engineering Management: In accordance with CES II contract SOW 3.10, the contractor shall provide Management and Engineering Support: The engineering support will consist primarily of, but not be limited to the following:

a. Provide information and training on any new hardware and/or software modification or design.

b. Undertake studies and investigations related to LATR performance and potential performance improvements.

c. Provide management and engineering support to studies and projects at the LATR ranges including the annual CAMIS Report and audits of the Photo CA Study at the NAWCWD Land and Sea Ranges.

d. Review, analyze, test and document changes or the impact to LATR instrumentation caused by hardware and/or software failures or the non-availability of parts as established in the hardware configuration baseline.

e. On-site field support that includes a wide range of requirements ranging from field level maintenance, diagnostics/repairs, flight-line operations, engineering analysis, development of solutions to complex problems as well as technical/logistics issues associated with a variety of Data Link instrumentation equipment. The on-site field support will have access to office space/equipment and telephone/internet connection at no cost to the contractor, on an as-required basis.

f. Design, develop, build, and test new test and evaluation ranges and training ranges including range support assets and infrastructure tied to LATR based instrumentation.

g. Design, develop, build, and test modifications to test and evaluation ranges and training ranges including range support assets and infrastructure tied to LATR based instrumentation. The contractor shall integrate new, existing, or modified hardware, software, or integrated hardware/software LATR systems and infrastructure assets into existing ranges.

3.5 Programming: In accordance with CES II contract SOW 3.1, 3.2, 3.3, 3.4, 3.5 – all subparagraphs, the contractor shall provide full programming capabilities, software problem report submittal/analysis, reloading unit software, distribution of software for intermediate reloading.

3.6 Configuration Management: In accordance with CES II contract SOW 3.4, paragraph 3.5.9, the contractor shall provide hardware/software configuration management on LATR equipment covered under this SOW as specified by the LATR CM Plan.

3.7 Project Management: In accordance with CES II contract SOW 3.11, the contractor shall implement project management program in support of this task in accordance with the IPB.

3.8 Repair: In accordance with CES II contract SOW 3.1, 3.2, 3.6, 3.7, 3.8, the contractor shall provide all equipment and/or parts required to support LATR system repair. This shall include the design, development, manufacturing, installation and integration of all components required to repair the LATR hardware and software; replacement of obsolete system components; provide replacement spares for equipment determined to be beyond economical repair; and establish and/or maintain LATR on-site parts kits.

3.9 Depot: In accordance with CES II contract SOW paragraph 3.11.1, the contractor will be required to assist in the operation and maintenance of a depot spares program for various LATR systems and hardware suites such as the R3 modules and test equipment.

3.10 Web Scheduling: In accordance with CES contract SOW paragraph 3.5.9, the contractor shall design, develop, upgrade, install and maintain a web enabled scheduling tool and an electronic library information system. The contractor shall provide database administrator tasks for the system.

3.11 Software Maintenance: In accordance with CES II contract SOW 3.2, 3.5, 3.7, 4.1.3, 4.2, the contractor shall provide Radar Acquisition Program (RAP) and/or Joint Force Operational Readiness Combat Effectiveness Simulator/Joint National Training Capability (JFORCES/JNTC) software maintenance, upgrades, and modernization for integration with LATR Ranges.

3.12 External Programs: In accordance with CES II contract SOW 3.2, 3.3, 3.5, 3.7, 3.9, 3.10, 4.1.3, 4.2, the contractor shall provide P5 and TCTS support such as in-sight into P5/TCTS contractor's design, development, testing, documentation, and software overview; providing architectural distributive interface concepts; designing, coding, building, integrating, and testing non-high activity participant interface; and provide design, development, integration, and test to have the LATR ranges ready for interfacing and fielding to the TCTS. Red/Black security boundary separation design and implementation shall be provided at interfaces that require red/black separation.

3.13 TENA: In accordance with CES II contract SOW 3.10.8, 4.1.3, and 4.2, the contractor shall provide TENA gateways and embed TENA Logic Range Object Models (LROMs) and TENA native software into LATR and other range systems for distributing data to geographic locations participating in joint training, T&E exercises, JNTC, Battlespace, Network Centric, Time Critical Strike training and T&E demonstrations and exercises.

3.14 Interfaces: In accordance with CES II contract SOW 3.10.8, 4.1.3, and 4.2, the contractor shall provide Distributive Interactive Simulation (DIS) and High Level Architecture (HLA) interfaces into LATR and other range systems for data interface with virtual and constructive systems and subsystems such as virtual weapons simulations and aircraft cockpit simulators to support distributed mission concepts, demonstrations, and training and T&E exercises.

3.15 Simulations and Electronic Warfare (EW): In accordance with CES II contract SOW 3.2, 3.3, 3.5, 3.7, 3.9, 3.10.8, 4.1.3, and 4.2, the contractor shall provide new, enhanced, modified weapons simulations for LATR. Weapons simulations will leverage new weapon simulation interface architecture.

3.16 Engineering Processes : In accordance with CES II contract SOW 3.5.9, the contractor shall provide software engineering process improvement using the SEI's Capability Maturity Model-Integrated (CMMI), staged approach.

3.17 Products and Services: In accordance with CES II contract SOW 3.10.1, the contractor shall provide engineering services at NAWCWD and/or LATR ranges such as studies, training or support of range instrumentation systems as required.

4.0 SPECIAL CONSIDERATIONS

4.1 Government Furnished Items

4.1.1 Facilities: In accordance with CES II contract SOW 4.1.1, 4.1.2, the contractor shall perform tasks at contractor facilities or LATR ranges. The specific range facility will be made accessible for use in performance of the Task Order.

4.1.2 Equipment: The Government will supply a 433.1 MHz R3 telemetry unit for validating the performance of any stand-alone circuit cards returned for repair.

4.2 Travel

4.2.1 Ranges: The requirements identified in this SOW apply to LATR ranges. These ranges include, but are not limited to:

- Southern California Offshore Range (SCORE), San Diego, CA
- Pacific Missile Range Facility (PMRF), Hawaii
- Virginia Capes Range (VACAPES), Oceana, VA
- Atlantic Underwater Test & Evaluation Center (AUTEC), West Palm Beach, FL
- Naval Air Station, Fallon, NV

- USMC Air Station, Yuma, AZ
- Extended Area Tracking System (EATS) at the Sea Range, Naval Air Warfare Center, Point Mugu, CA and the China Lake Land Ranges

In accordance with CES II contract SOW 4.2, the contractor will be required to travel in performance of this Task Order. The Government estimated travel to consist of the most current LATR Upgrade and Sustainment Integrated Project Baseline (IPB). The contractor is expected to adjust resources to comply with the monthly changing LATR Upgrade and Sustainment IPB.

Over the life of the task order, the contractor may be required to travel to the following sites (but not limited to) one or more times. Depending on the actual requirement, the Team traveling will vary mix wise (Government, contractor).

- US LATR Ranges (Fallon, Oceana, SCORE, AUTEC, PMRF)
- Other Facilities and Sites. (NAWCWD China Lake/Point Mugu, San Diego, Patuxtent River)

4.3 Material: The contractor will be required to procure material in the performance of this Task Order. The Government estimates material to consist of the material called out in applicable document 2.1, the most current LATR Upgrade and Sustainment Integrated Project Baseline (IPB). The contractor is expected to adjust resources to comply with the monthly changing LATR Upgrade and Sustainment IPB, applicable document 2.1.

4.4 Security: In accordance with CES II contract SOW 4.1.5, the contractor shall ensure compliance with the DD Form 254 requirements. Performance under this task order may require a security clearance up to the level of Secret for personnel and a facility security clearance level of Secret.

4.5 Monthly Status Reports: In support of this task order, the contractor shall deliver a monthly Cost, Schedule and Status Report (C/SSR). The contractor shall deliver a monthly status report that includes cumulative funds/hours expended; and when required, a summary of work performed per project and task, problems encountered, problems resolved, current schedules and other relevant information. 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.

4.6 Technical Coordinator: Marc Katra, Code 531300D, marc.katra@navy.mil

4.6.1 Alternate Technical Coordinator: Stan Shefler, Code 535100D, stanley.shefler@navy.mil

4.7 Delivery Schedule: Work shall commence upon award of this task order. The delivery schedule will be based upon the most current LATR Upgrade and Sustainment Integrated Project Baseline (IPB).

4.8 Project Costs: The contractor shall provide Project Cost Reports in accordance with paragraph 4.5 of this SOW.

4.9 Data: The contractor shall be required to provide production drawings, conceptual drawings, user manuals, maintenance manuals, source code, source code documentation and any other documentation required for configuration management baseline changes.

5.0 DELIVERABLES

5.1 Software: In accordance with paragraph 4.9 of this SOW, The contractor shall deliver source code, and source code documentation.

5.2 LATR/R3 Upgrade TM: In accordance with paragraph 4.9 of this SOW and the IPB, the contractor shall upgrade and deliver LATR/R3 Technical Manual, Navair 16-30URY3A-1.

5.3 Monthly Status Report: In accordance with paragraph 4.5 of this SOW, the contractor shall provide monthly status reports in contractor format.

6.0 LIST OF ACRONYMS

CAMIS: Commercial Activities Management Information System
CM: Configuration Management
CMMI: Capability Maturity Model-Integrated
Cost, Schedule and Status Report (C/SSR
DIS: Distributive Interactive Simulation
EW: Electronic Warfare
HLA: High Level Architecture
INMARSAT: International Maritime Satellite
IPB: Integrated Project Baseline
JFORCES: Joint Force Operational Readiness Combat Effectiveness Simulator
JNTC: Joint National Training Capability
LATR: Large Area Tracking Range
LCDS: LATR Computer and Debrief System
LROMs: Logic Range Object Models
LRWS: LATR Range Operations Control Center Workstation System
LIPS: LATR INMARSAT: Position System
LTS: LATR Tracking System
LTSGE: LTS Ground Element
LTSPE: LTS Participant Element
RAP: Radar acquisition Program
R3: Relay/Reporter/Responder
SEG: System Engineering Group
SEI: Software Engineering Institute
SPR: Software Problem Reports
STR: Software Trouble Reports
TACTS: tactical Aircrew Combat Training Systems
TCTS: Tactical Combat Training Systems
TENA Test and Training Enabling Architecture.
T&E: Test and Evaluation
TSPI: Time Space Position Information

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO.	2. DELIVERY ORDER/ CALL NO.	3. DATE OF ORDER/CALL (YYYYMMMDD)	4. REQ./ PURCH. REQUEST NO.	5. PRIORITY
N68936-04-D-0022	0003	2007 Mar 16	See Schedule	

6. ISSUED BY CODE N68936
CDR NAWCWD CODE 220000D
ATTN: B. MONCKTON
(760) 939-8234
429 E BOWEN RD - STOP 4015
CHINA LAKE CA 93555-6108

7. ADMINISTERED BY *(if other than 6)* CODE S2404A
DCMA VIRGINIA
DCMA-GVO
10500 BATTLEVIEW PKWY
SUITE 200
MANASSAS VA 20109-2342

8. DELIVERY FOB
[X] DESTINATION
[ ] OTHER
(See Schedule if other)

9. CONTRACTOR CODE 7Z726 FACILITY
NAME AND ADDRESS
L-3 COMMUNICATIONS GOVERNMENT SERVICES,
JUDY MILLER
3750 CENTERVIEW DRIVE
CHANTILLY VA 20151

10. DELIVER TO FOB POINT BY (Date) (YYYYMMMDD)
SEE SCHEDULE

11. MARK IF BUSINESS IS
[ ] SMALL
[ ] SMALL DISADVANTAGED
[ ] WOMEN-OWNED

12. DISCOUNT TERMS

13. MAIL INVOICES TO THE ADDRESS IN BLOCK
See Item 15

14. SHIP TO CODE
SEE SCHEDULE

15. PAYMENT WILL BE MADE BY CODE HQ0338
DFAS - COLUMBUS CENTER
SOUTH ENTITLEMENT OPERATIONS
PO BOX 182264
COLUMBUS OH 43218-2264

MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.

16. TYPE OF ORDER
DELIVERY/CALL [X] 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 [ ] 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 (YYYYMMMDD)

[X] 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
Mary Jacobs
CONTRACTING / ORDERING OFFICER

25. TOTAL $7,689,658.00
26. DIFFERENCES

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 (YYYYMMMDD) | 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

[ ] PARTIAL
[ ] FINAL

32. PAID BY

33. AMOUNT VERIFIED CORRECT FOR

36. I certify this account is correct and proper for payment.

a. DATE (YYYYMMMDD) | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER

31. PAYMENT
[ ] COMPLETE
[ ] PARTIAL
[ ] FINAL

34. CHECK NUMBER

35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMMDD)	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

EXERCISED OPTION

COMBAT ENVIRONMENT SIMULATION

CPAF

CES - Joint Asymetric Warfare Systems (JAWS). Under CLIN 0003 of basic contract. In accordance with JAWS Statement of Work, Attachment (1).

FOB: Destination

PURCHASE REQUEST NUMBER: 0010201308-0001

MAX COST	
BASE FEE	_____ b(4)
SUBTOTAL MAX COST + BASE	
MAX AWARD FEE	
TOTAL MAX COST + FEE	$2,425,865.00

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

EXERCISED OPTION

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

JAWS. In accordance with Statement of Work. US Joint Forces Command.

FOB: Destination

MILSTRIP: N3497B07MPRT035

PURCHASE REQUEST NUMBER: 0010201308-0001

ACRN AA
CIN: 001020130800002

b(4)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000102		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

EXERCISED OPTION

FOR NAVY ACCOUNTING PURPOSES ONLY

CPAF

JAWS. In accordance with Statement of Work. HQ USA/A3OT.

FOB: Destination

MILSTRIP: F1AF1H7064G001

PURCHASE REQUEST NUMBER: 0010201308-0002

ACRN AB
CIN: 001020130800003

b (4)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002		UNDEFINED			NSP

DATA

CPAF

In accordance with CLIN 0004 and Exhibit A of basic contract.

NSP - Not Separately Priced

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003		UNDEFINED	Dollars, U.S.	UNDEFINED	UNDEFINED

EXERCISED OPTION

COMBAT ENVIRONMENT SIMULATION

CPAF

CES - Joint Asymetric Warfare Systems (JAWS). Under CLIN 0005 of basic contract. In accordance with JAWS Statement of Work, Attachment (1).

FOB: Destination

PURCHASE REQUEST NUMBER: 0010201308-0001

MAX COST	
BASE FEE	b(4)
SUBTOTAL MAX COST + BASE	
MAX AWARD FEE	
TOTAL MAX COST + FEE	$5,263,793.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0004		UNDEFINED			NSP

DATA

CPAF

In accordance with CLIN 0006 and Exhibit A of basic contract.

NSP - Not Separately Priced.

FOB: Destination

NOTE

BASE FEE AND AWARD FEE FOR LEVEL-OF-EFFORT ORDER (CLIN 0001)

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

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

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 will 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, 2007. 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 mav earn and be paid all or a portion of an award fee not to exceed rovided that approximately lirect 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.

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

BASE FEE AND AWARD FEE FOR LEVEL-OF-EFFORT ORDER (CLIN 0003)

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

CLIN	Base Fee Amount	Hourly Base Fee Rate	Hours Per Level of Effort
0003			

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 will 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 Dec 1, 2007 to Mar 30, 2008. 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 mav earn and be paid all or a portion of an award fee not to exceec provided that approximatel 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 o 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.

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 determined to be **NONSEVERABLE**.

b(4)

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
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 16-MAR-2007 TO 30-NOV-2008	N/A	CDR NAWCWD CODE 531300D MARC KATRA 1 ADMINISTRATION CIRCLE MAIL STOP 1108 BUILDING 31448, ROOM 8 CHINA LAKE CA 93555-6100 (760) 939-5093 FOB: Destination	N68936
0002	POP 16-MAR-2007 TO 31-DEC-2008	N/A	N/A FOB: Destination	
0003	POP 01-DEC-2007 TO 30-NOV-2008	N/A	CDR NAWCWD CODE 531300D MARC KATRA 1 ADMINISTRATION CIRCLE MAIL STOP 1108 BUILDING 31448, ROOM 8 CHINA LAKE CA 93555-6100 (760) 939-5093 FOB: Destination	N68936
0004	POP 01-DEC-2007 TO 31-DEC-2008	N/A	N/A FOB: Destination	

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 9770400 66K8 253 00066 0 068892 2D PRT035
COST CODE: 3497B7B8MPRQ
AMOUNT: $80,000.00
CIN 001020130800002:

AB: 97X4930 NH2C 252 77777 0 054219 2F 000000
COST CODE: 600337013000
AMOUNT: $888,592.00
CIN 001020130800003:

b (4)

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	JAWS - Statement of Work	4	14-FEB-2007
Attachment 2	JAWS - Integrated Project Baseline	1	2-FEB-2007
Attachment 3	JAWS - Level of Effort	2	14-FEB-2007

Joint Asymmetric Warfare System (JAWS) for Testing, Training, and Tactics Development
Statement of Work

Background: Asymmetric warfare is characterized by tactics and techniques that attempt to circumvent or undermine superior US Force' strengths while attacking hitherto unknown weaknesses or underprotected vulnerabilities through such methods as Improvised Explosive Devices (IED), MAN-Portable Air Defense Systems (MANPADS) and other emergent systems that differ significantly from conventional warfare methods of operations. Asymmetric approaches employ nontraditional tactics, weapons, or technologies in unconventional arenas, realms, networks, and environments. The Joint Forces Command (JFCOM), in order to improve and expand the Joint National Training Capability (JNTC), has a requirement to provide testing, training, and tactics development in asymmetric warfare. The JNTC currently exists across several existing training and test ranges. Some of the key aspects of the JNTC include testing and training of counter MANPADS, IED, communications, information warfare, and related systems.

1.0 SCOPE

This statement of work (SOW) develops, integrates, installs a Joint Asymmetric Warfare System (JAWS) and requires the contractor to provide logistics, management and engineering support to the JAWS infrastructure, systems, subsystems, and interfaces. This effort includes the test and/or training resource requirements analysis, system engineering and design support, development or procurement of hardware, software, future upgrades, deployment, test and/or training support and maintenance of developed hardware.

The staffing level and need in support of this task order varies in accordance with JAWS requirements as reflected in the most current Integrated Project Baseline (IPB).

2.0 APPLICABLE DOCUMENTS

2.1 WTTC CM Plan
2.2 CES II contract SOW, Sep 22, 2003

3.0 REQUIREMENTS

3.1 New Equipment: In accordance with CES II contract SOW 3.7, the contractor shall design, develop, build, test, install at various Test and Evaluation, and Training (TT) ranges new operation and test equipment which support the JAWS functions. TT ranges include support assets and associated infrastructure.

3.2 Software and Hardware: In accordance with CES II contract SOW 3.2, 3.3, 3.5, 3.7, 3.9, 4.2, the contractor shall develop, maintain, and upgrade software in support of JAWS functions. The Contract shall procure and/or build hardware in support of JAWS functions. The Contractor shall conduct the integration of software and hardware, software maintenance, future enhancements, modernization, upgrades, correction to Software Problem Reports (SPRs) and Software Trouble Reports (STRs) that pertain to the JAWS functions. Upon successful test, the software and hardware will be installed along with the necessary upgrades at the various TT ranges as a new baseline (see paragraph 4.2 of this SOW for list of ranges). The common software baseline will be updated and delivered periodically.

3.3 Logistics and Engineering: In accordance with CES II contract SOW 3.6, the contractor shall provide in-plant and on-site logistics and engineering support pertaining to JAWS equipment. On-site field support includes field level maintenance, diagnostics/repairs, flight-line operations, engineering analysis, development of solutions to complex problems as well as technical/logistics issues associated with a variety of Data Link instrumentation equipment. The on-site field support will have access to office space/equipment and telephone/internet connection at no cost to the contractor, on an as-required basis.

3.4 Engineering Management: In accordance with CES II contract SOW 3.10, the contractor shall provide Management support. This support shall include:

a. Training on any new hardware and/or software modification or design.

b. Undertaking studies and investigations related to JAWS functions performance and potential performance improvements.

c. Reviewing, analyzing, and documenting changes that impact JAWS instrumentation caused by hardware and/or software failures or the non-availability of parts as established in the hardware configuration baseline.

3.5 Configuration Management: In accordance with CES II contract SOW 3.4, paragraph 3.5.9, the contractor shall provide hardware/software configuration management on JAWS equipment covered under this SOW as specified by the JAWS CM Plan.

3.6 Project Management: In accordance with CES II contract SOW 3.11, the contractor shall implement project management program in support of this task in accordance with the IPB.

3.7 Repair: In accordance with CES II contract SOW 3.1, 3.2, 3.6, 3.7, 3.8, the contractor shall repair all equipment and/or parts required to support JAWS system. The repair shall include the design, development, manufacturing, installation and integration of new components/parts required for the operation of the JAWS hardware and software; replacement of obsolete system components; provide replacement spares for equipment determined to be beyond economical repair; and establish and/or maintain JAWS on-site parts kits.

3.8 Engineering Processes: In accordance with CES II contract SOW 3.5.9, the contractor shall provide software engineering process improvement using the SEI's Capability Maturity Model-Integrated (CMMI), staged approach.

3.9 IBARCS: In accordance with CES II contract SOW 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 3.9, 3.10 the Contractor shall design, develop, fabricate, install, integrate, and test the IBARCS based on the existing Improved Big Aerial Roman Candle (IBARCS) prototype MANPAD Stimulator.

3.10 NFIRS: In accordance with CES II contract SOW 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 3.9, 3.10 the Contractor shall design, develop, fabricate, install, integrate, and test the IBARCS based on the existing Near Field Intercept Receiver System (NFIRS) prototype. The contractor shall provide NFIRS Comm-Int and Sig-Int Support Kits, Update Spectral Mapping Databases (Frequency/Location/Mode), Spectrum Dependent RF Threshold Detection Filtering, Rudimentary Direction Finding and Proximity Estimation. The contractor shall provide a Deployment, Interoperability, and Sustainability Plan for NFIRS and its associated information warfare capabilities.

3.11 IED/CIED: In accordance with CES II contract SOW 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 3.9, 3.10 the Contractor shall design, develop, fabricate, install, integrate, and test an IE-D/CIED testing system prototype. The contractor shall provide an IED Characterization and Signature Collection Database. The contractor shall provide portable CIED/IED Test and Evaluation Range Kits. The contractor shall provide near field intercept hardware and software for CIED. The contractor shall provide a rudimentary (this statement probably will need to be further defined to accurately provide a cost estimate since rudimentary could mean anything. The terms prototype or generic jammer may be more easily understood in order to provide an estimate) IED jammer testing capability.

3.12 MANPADS Simulators: In accordance with CES II contract SOW 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 3.9, 3.10 the Contractor shall design, develop, fabricate, install, integrate, and test the MANPADS Simulators and Stimulators. The contractor shall provide upgrades and support for MAST (Man Portable ASE System Trainer). The contractor shall provide upgrades and support for flightline simulator ASE test kits including a Deployment, Interoperability, and Sustainability Plan for fleet deployed devices.

4.0 SPECIAL CONSIDERATIONS

4.1 Government Furnished Items

4.1.1 Facilities: In accordance with CES II contract SOW 4.1.1, 4.1.2, the contractor shall perform tasks at contractor facilities or JAWS ranges. The specific range facility will be made accessible for use in performance of the Task Order.

4.2 Travel

4.2.1 Ranges: In accordance with CES II contract SOW 4.2, the contractor will be required to travel in performance of this Task Order. The Government estimated travel to consist of the most current JAWS Upgrade and Sustainment Integrated Project Baseline (IPB). The contractor is expected to adjust resources to comply with the monthly changing JAWS Upgrade and Sustainment IPB. Over the life of the task order, the contractor may be required to travel to the following sites one or more times. Depending on the actual requirement, the Team traveling will vary mix wise (Government, contractor).

The requirements identified in this SOW apply to JAWS ranges. These ranges include, but are not limited to:

- Atlantic Underwater Test & Evaluation Center (AUTEC), West Palm Beach, FL
- Edwards Air Force Base, CA
- Eglin Air Force Base, FL
- Ft. Huachuca, AZ
- Hill Air Force Base, UT
- Holloman Air Force Base, NM
- Naval Air Station, Fallon, NV
- Naval Air Warfare Center, Point Mugu, CA
- Pacific Missile Range Facility (PMRF), Hawaii
- Southern California Offshore Range (SCORE), San Diego, CA
- Naval Air Warfare Center, Aircraft Division, Patuxent River, MD
- Naval Air Warfare Center, Weapons Division, China Lake, CA
- Naval Air Warfare Center, Weapons Division, Pt Mugu, CA
- USMC Air Station, Yuma, AZ
- Virginia Capes Range (VACAPES), Oceana, VA
- White Sands Missile Range, NM
- Yuma Proving Ground, AZ

4.3 Material: The contractor will be required to procure material in the performance of this Task Order. The Government estimates material to consist of the material called out in applicable document 2.1, the most current JAWS Upgrade and Sustainment Integrated Project Baseline (IPB). The contractor is expected to adjust resources to comply with the monthly changing JAWS Upgrade and Sustainment IPB, applicable document 2.1.

4.4 Security: In accordance with CES II contract SOW 4.1.5, the contractor shall ensure compliance with the DD Form 254 requirements. Performance under this task order may require a security clearance up to the level of Secret for personnel and a facility security clearance level of Secret.

4.5 Technical Coordinator: *Marc Katra, Code 531300D*

4.5.1 Alternate Technical Coordinator: *Edward Seffel, Code 535200D*

5.0 DELIVERABLES

5.1 Software/Data: The contractor shall be required to provide production drawings, conceptual drawings, user manuals, maintenance manuals, source code, source code documentation and any other documentation required for configuration management baseline changes.

5.2 Monthly Status Report: In support of this task order, the contractor shall deliver a monthly Cost, Schedule and Status Report (C/SSR). The contractor shall deliver a monthly status report that includes cumulative funds/hours expended; and when required, a summary of work performed per project and task, problems encountered, problems resolved, current schedules and other relevant information. 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.

6.0 LIST OF ACRONYMS

ASE: Aircraft Survivability Equipment
CAMIS: Commercial Activities Management Information System
CM: Configuration Management
CIED: Counter Improvised Explosive Device
CMMI: Capability Maturity Model-Integrated
C/SSR: Cost, Schedule and Status Report
DIS: Distributive Interactive Simulation
EW: Electronic Warfare
IBARCS: Improved Big Aerial Roman Candle
IED: Improvised Explosive Device
IPB: Integrated Project Baseline
JAWS: Joint Asymmetric Warfare System
JFCOM: Joint Forces Command
JNTC: Joint National Training Capability
MANPADS: MAN-Portable Air Defense System
MAST: Man Portable ASE System Trainer
NFIRS: Near Field Intercept Receiver System
SEG: System Engineering Group
SEI: Software Engineering Institute
SPR: Software Problem Reports
STR: Software Trouble Reports
T&E: Test and Evaluation
TSPI: Time Space Position Information
TT: Test & Evaluation and Training

APFS Integrated Project Baseline (IPB)
Plan as of 2-Feb-07

SOW Para #	Activity ID	ACTIVITY TITLE	START	FINISH	GOVT HRS ESTIMATE	QTY	Non-Labor GOVT ESTIMATE
3.1	1.0	New Equipment	Mar-07	Dec-08	816		$ 2,000,000.00
		Travel to User Range, Location TBD - 5 Day Trip w/1 Person	Mar-07	Dec-08		2	$ 5,000.00
3.2	2.0	Software and Hardware	Mar-07	Dec-08	2,880		$ 7,500.00
		Travel to User Range, Location TBD - 5 Day Trip w/1 Person	Mar-07	Dec-08		2	$ 5,000.00
3.3	3.0	Logistics and Engineering	Mar-07	Dec-08	1,260		
3.4	4.0	Engineering Management	Mar-07	Dec-08	480		
3.5	5.0	Configuration Management	Mar-07	Dec-08	560		
3.6	6.0	Project management	Mar-07	Dec-08	560		
3.7	7.0	Repair	Mar-07	Dec-08	1,760		
		Travel to User Range, Location TBD - 5 Day Trip w/1 Person	Mar-07	Dec-08		2	$ 5,000.00
3.8	8.0	Engineering Processes	Mar-07	Dec-08	816		
3.9	9.0	IBARCS	Mar-07	Dec-08	620		$ 1,000,000.00
3.10	10.0	NFIRS	Mar-07	Dec-08	620		$ 1,000,000.00
3.11	11.0	**IED/CIED**	Mar-07	Dec-08	**620**		**$ 1,000,000.00**
3.12	12	MANPADS	Mar-07	Dec-08	620		$ 1,000,000.00
		TOTAL			**11,612**		**$ 6,022,500.00**

LEVEL OF EFFORT
FOR
COMBAT ENVIRONMENT SIMULATION

Joint Asymetric Weapons System
(JAWS)

CES CONTRACT N68936-04-D-0022
ORDER 0003

N68936-04-D-0022 / 0003
TOTAL LEVEL OF EFFORT
CES II - JAWS

	CONTRACT LABOR CATEGORY	CLIN 0001 EST HRS	CLIN 0003	Total
1	Project Manager / Sr. Electronics Engineer			
2	Sr. Financial Analyst / Contracts Specialist			
3	CM/DM Specialist / Secretary			
4	Sr. SW Enginer / Sr. EW Engineer			
5	Systems Engineer			
6	Systems Enginer			
7	Software Engineer / Systems Analyst			
8	Electronics Technician / Troubleshooter			
				11,612.0

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