

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-15-D-0004	2. DELIVERY ORDER/ CALL NO. 0110	3. DATE OF ORDER/CALL (YYYYMMDD) 2015 Dec 08	4. REQ / PURCH REQUEST NO. 1300537322	5. PRIORITY
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6. ISSUED BY CDR NAWCWD CODE 254100D ATTN: M. PETERSON (760) 939-1147 429 E BOWEN RD. STOP 4015 CHINA LAKE CA 93555-5106	CODE N68936	7. ADMINISTERED BY (if other than 6) DCMA MANASSAS 10500 BATTLEVIEW PKWY SUITE 200 MANASSAS VA 20109-2342	CODE S2404A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR ENGLITY LLC NAME (b) (4) AND 3750 CENTERVIEW DR ADDRESS CHANTILLY VA 20151-3200	CODE 02NP8	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 SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER SOUTH ENTITLEMENT OPERATIONS P O BOX 182317 COLUMBUS OH 43218-2264	CODE HQ9338	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) 939-1891 EMAIL: bryan.v.gregory@navy.mil BY: BRYAN V. GREGORY	<i>36</i>	25. TOTAL \$225,996.65
			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 (YYYYMMDD)	d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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e. 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.

a. DATE (YYYYMMDD)	b. SIGNATURE AND TITLE OF CERTIFYING OFFICER
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31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. CHECK NUMBER	35. BILL OF LADING NO.
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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	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor CPFF In accordance with the Statement of Work. This task order is severable. FOB: Destination	(b) (4)	Hours		\$217,135.70
				ESTIMATED COST	\$ (b) (4)
				FIXED FEE	\$ (b) (4)
				TOTAL EST COST + FEE	<u>\$217,135.70</u>

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000101	For Navy Accounting Purposes Only	
CIN: 130053732200001	ACRN AA	\$67,000.00
PURCHASE REQUEST NUMBER: 1300537322		

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	ODCs - Travel COST FOB: Destination		Lot		\$8,860.95
				ESTIMATED COST	\$8,860.95

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000301	For Navy Accounting Purposes Only	
CIN: 130053732200001	ACRN AA	\$8,000.00
PURCHASE REQUEST NUMBER: 1300537322		

Section C - Descriptions and Specifications

STATEMENT OF WORK

Statement of Work
Contract N68936-15-D-0004
Support Task Order 0110
Harpoon/SLAM ER Engineering Support
Version: 10/27/2015, R1
Severable task order, PSC Code R425
Applicable SOW Sections
3.1.2, 3.2.1, 3.2.3, 3.4.1, 3.4.2, 3.4.3

1.0 SCOPE**1.1 Background**

- 1.1.1 The Harpoon and Stand-off Land Attack Missile Expanded Response (SLAM ER) Weapons Programs need to remain current and functional with their respective fleet released platform Software Configuration Sets (SCS). The Platform SCS and the weapons programs continue to upgrade their systems to support new hardware and software requirements. The U.S. Navy (USN) intends to sustain the Harpoon and SLAM ER weapons within the fleet. The USN also intends to sell and provide support for foreign military sales (FMS) of these weapons. As part of these efforts, the weapons programs need to address weapon upgrades and obsolescence issues require engineering and testing to verify and validate the work.

1.2 General Scope of Work

- 1.2.1 This Task Order (TO) Statement of Work (SOW) covers system engineering support, design and development engineering support, test and evaluation support, technical and administrative support, and contract development support for the Harpoon and SLAM ER Weapons Programs.

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to these programs and this SOW.

1. The Security Classification Guide for the Harpoon Weapon System, SCG ID# 02-031.06.
2. Security Classification Guide for the Standoff Land Attack Missile (SLAM), Standoff Land Attack Missile (SLAM-ER) (AGM-84 E/H/K).
3. Security Classification Guide for Control Monitor Set, Guided Weapon, AN/AWW-13, SCG id #02-113.03.

4. SECNAV 5000.2E, Department of the Navy Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System.
5. Interim DODI 5000.02, Operation of the Defense Acquisition System
6. AS-6130, Critical Item Fabrication Specification for Warhead, Guided Missile, High Explosive, WDU-40/B
7. NMD-199, Navy Munitions Data for Warhead, Guided Missile, High Explosive, WDU-40/B
8. AS-6127, Critical Item Fabrication Specification for Booster, Fuze, BBU-60/B

3.0 PERFORMANCE REQUIREMENTS

The Contractor shall obtain information through meetings and/or share websites such as SharePoint. Work transmittals will be provided via the Contractor's in-basket, share websites, or through electronic mail (e-mail) messages to execute this SOW.

3.1 Engineering Analyses

- 3.1.1 The Contractor shall provide engineering support to include preparation or review of Harpoon/SLAM ER Systems Engineering Plans, Interface Control Documents, engineering drawings, system and sub-system specifications.
- 3.1.2 The Contractor shall support performance, cost, and schedule trade-off analyses to aid in arriving at Harpoon/SLAM ER system requirements that are achievable within programmatic constraints.
- 3.1.3 The Contractor shall support the preparation for, and conduct of, technical reviews to measure program progress versus plan. The Contractor shall also assist in resolving problems identified in these reviews and assigned as action items.
- 3.1.4 The Contractor shall analyze and make recommendations to the Harpoon/SLAM ER Project Office and Matrix engineering personnel concerning technical issues arising from Harpoon or SLAM ER ordnance related contracts and in-house hardware fabrication/explosive loading efforts in support of United States Navy (USN) or Foreign Military Sales (FMS) customer requirements.
- 3.1.5 The Contractor shall support Government analyses and make recommendations concerning field failures and degradation of Harpoon or SLAM-ER missile Warhead Section related hardware.
- 3.1.6 The Contractor shall draft or review and provide recommendations to Engineering Change Proposals (ECPs)/Notice of Revision (NORs)/Technical Directives (TDs) and drawings related to Harpoon or SLAM-ER ordnance drawings per applicable specifications/standards. (CDRL A00B)

3.2 Test Plans and Procedures

- 3.2.1 The Contractor shall review and analyze test plans, test objectives, test scenarios and Test and Evaluation (T&E) documentation, provided GFI, for conformance with program test objectives and range instrumentation requirements to support current and future T&E operations, Fleet training exercises, weapon system firings, and laboratory sub-system test events. The Contractor shall identify deficiencies in test planning and provide recommendations outlining the corrections to the test procedures to meet mission objectives. The Contractor shall incorporate Government review comments into programmatic final reports. The Contractor shall provide recommendations for test scenarios, exercise geometry and hazard pattern constraints to ensure maximum effective use of available range assets and completion of T&E objectives. The recommendations can be submitted as a technical report, via email or verbal during technical meetings. The Contractor shall provide liaison with range, target, and other activities to ensure weapon system scenarios and T&E requirements are met. The Contractor shall identify and analyze performance problems associated with test documentation, test instrumentation, target augmentation, and test scenarios involving Electronic Attack (EA)/Electronic Warfare (EW) threat simulation equipment. The Contractor shall provide input to any recommended corrective plan of action to resolve identified problems.
- 3.2.2 The Contractor shall review and evaluate test procedures, design field and laboratory tests to assess the capabilities and limitations of weapon or target system guidance, control and related systems. The Contractor shall review standard test planning documentation, such as, test firing matrices, detailed test plans, mission firing plans, and data requirements plans, provided as GFI, in accordance with the applicable Test Reporting Standards. The Contractor shall review and provide recommendations to test cases, objectives, compliance criteria, and schedules for inclusion in developmental test plans and integrated master test plans. The Contractor shall design and develop weapon system test scenarios; define exercise geometry and constraints necessary to implement these test scenarios; and develop range required test documentation. (CDRL A00B)

3.3 Test Support

- 3.3.1 The Contractor shall review and analyze weapons system specifications, characteristics, and system design changes as they apply to range operations and development. The Contractor shall provide data and recommendations that will ensure safe operation at laboratory, test and training ranges during test events. The Contractor shall identify weapon system documentation to identify problem areas prior to T&E events. The Contractor shall determine the capability of national laboratory, test and training ranges to support planned operations. The Contractor shall analyze range restrictions, environmental hazards/assessments, and target presentation capabilities and provide recommendations on how to satisfy the test objectives while conforming to environmental laws and restrictions, range clearance, safety requirements, and operational test requirements.

- 3.3.2 The Contractor shall monitor and track weapons system testing and develop weapon system simulation capability, and perform test data collection for laboratory, air and shipboard weapon and target tests. Specific attention should be focused on monitoring the compliance with Range Safety Operating Procedures and applicable Range Waivers for Flight. The Contractor shall note problems encountered, waiver compliance status, and test operations/results in narrative reports. The Contractor shall monitor weapons system testing and data collection and provide analytical support during testing. The Contractor shall collect and record test information and data during test performance and provide written analyses, conclusions, and recommendations for further testing in a Test Performance Analysis Report. The Contractor shall identify and analyze performance problems associated with test documentation, test instrumentation, photographic instrumentation, and test scenarios. The Contractor shall analyze and develop a recommended correction plan of action to resolve identified problems. (CDRL A005)
- 3.3.3 The Contractor shall conduct research and review current and projected range instrumentation requirements, including telemetry; surveillance, metric, and range safety radars; targets and target facilities, and communications and shall compare these requirements to existing range capabilities. The Contractor shall research and recommend enhancements to range capabilities required to satisfy current and future T&E operations.

3.4 Test Analyses and Reports

- 3.4.1 The Contractor shall draft or review Flash Reports, Quick-Look Reports, Observation Reports, Interim Summary Reports, Technical Engineering Data Reports (TEDR), Developmental Test (DT)/Operational Test (OT) Reports, Reports of Test Results (RTRs) and any other detailed test analysis reports of system tests. The Contractor shall prepare or evaluate analysis reports, in Government-approved format, that address the adequacy of test planning, analysis of test events, and submission of test results for each test program. The Contractor shall analyze weapon flight test data and use the results to refine weapon simulation models. The Contractor shall prepare flight test reports in the existing standardized format. The Contractor shall provide the Government, hard copies and digital versions of the flight test reports. (CDRL A005)

3.5 Technical Administrative Support

- 3.5.1 The Contractor shall generate programmatic and technical documents, technical reports, plans, environmental assessments, presentation support and materials such as viewgraphs (black/white and full color), slides, video tapes, computer graphics, full color scenario geo-plots, range safety missile/target hazard patterns, range scenario presentations, and printed material in support of technical meetings and briefings. Some material will be produced from Government furnished data and other material will be generated by the contractor as a result of on-going efforts.

- 3.5.2 The Contractor shall schedule, arrange and attend engineering reviews, T&E coordination meetings, and planning meetings, gathering data and providing technical support.

3.6 Project Planning Support

- 3.6.1 The Contractor shall review and evaluate Weapon System programmatic requirements for operational test planning and implementation. Results of such analyses shall be documented in the form of technical reports and presentation materials.
- 3.6.2 The Contractor shall provide technical support for the evaluation of mission essential documentation, resource planning, monitoring and reporting of personnel, materials, and fiscal resources to ensure proper execution and reporting of engineering and technical program operating budgets. (CDRL A00B)

3.7 Management Evaluation, Status Reviews and Reports

- 3.7.1 The Contractor shall evaluate or develop documentation such as, Program Plans, Program Protection and Security documentation, Test and Evaluation Master Plans (TEMPs), and Master Plans, design specifications, interface documentation, test plans, etc., provided as GFI, and provide written analyses and recommendations for improvements. The effort shall also include recommendations and input for the development of program objectives and shall comply with program schedule. Deficiencies noted shall be reported with recommendations for correction.

4.0 SPECIAL CONSIDERATIONS

4.1 Contract Status Reporting

- 4.1.1 The Contractor shall prepare weekly status reports outlining the tasks completed for that week to support the monthly Earned Value Management (EVM) delivery to the sponsor. The Contractor shall provide the weekly report and EVM input to the Government integrated product team (IPT) leader. (CDRL A005)

4.2 Place of Performance

- 4.2.1 The Contractor shall perform the tasks of this SOW at the office location provided by the Government.

5.0 SECURITY

5.1 Personnel Security

5.1.1 The Contractor shall require a SECRET security clearance to perform the tasks of this SOW. The Contractor will be required to safeguard and generate classified material, up to and including SECRET, during performance of this SOW.

6.0 TRAVEL

6.1 The Contractor may be required to perform non-local travel to execute this SOW. Travel locations include Point Mugu, CA, and may be for at least three (3) days up to one week per trip. The contractor is expected to comply with the quality assurance surveillance plan in the basic contract.

Origination Point	Destination	Approx. Days of Travel	No. of Trips	No. of Personnel
Ridgecrest, CA	Point Mugu, CA	5	6	1

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	N/A	N/A	N/A	Government
000101	Destination	Government	Destination	Government
0003	N/A	N/A	N/A	Government
000301	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
0001	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000101	N/A	N/A	N/A	N/A
0003	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000301	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 252 77777 0 050120 2F 000000

COST CODE: A00003172419

AMOUNT: \$75,000.00

CIN 130053732200001: \$75,000.00

CLAUSES INCORPORATED BY REFERENCE

52.232-22

Limitation Of Funds

APR 1984

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-15-D-0004	2. DELIVERY ORDER/ CALL NO. 0111	3. DATE OF ORDER/ CALL (YYYYMMDD) 2015 Dec 21	4. REQ./ PURCH REQUEST NO. 1300538897	5. PRIORITY
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6. ISSUED BY CDR NAWCWD CODE 254100D ATTN: T. BARKER (760) 939-3064 429 E BOWEN RD. STOP 4015 CHINA LAKE CA 93555-5106	CODE N68936	7. ADMINISTERED BY (if other than 6) DCMA MANASSAS 10500 BATTLEVIEW PKWY SUITE 200 MANASSAS VA 20109-2342	CODE S2404A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR ENGILITY LLC NAME (b) (4) AND 3750 CENTERVIEW DR ADDRESS CHANTILLY VA 20151-3200	CODE 02NP8	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 SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER SOUTH ENTITLEMENT OPERATIONS P O BOX 182317 COLUMBUS OH 43218-2264	CODE HQ0338	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) 939-1891 EMAIL: bryan.v.gregory@navy.mil BY: BRYAN V. GREGORY	<i>3/4</i>	25. TOTAL \$252,169.95	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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e. 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.

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.
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Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor CPFF	(b) (4)	Hours		\$229,645.07
	In accordance with the Statement of Work. This Task Order is Severable. FOB: Destination				
				ESTIMATED COST	\$ (b) (4)
				FIXED FEE	\$ (b) (4)
				TOTAL EST COST + FEE	<hr/> \$229,645.07

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000101	For Navy Accounting Purposes Only	
CIN: 130053889700001	ACRN AA	\$229,645.07
PURCHASE REQUEST NUMBER: 1300538897		

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	ODCs - Travel COST		Lot		\$22,524.88
	n accordance with the Statement of Work. FOB: Destination				
				ESTIMATED COST	\$22,524.88

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000301	For Navy Accounting Purposes Only	
CIN: 130053889700002	ACRN AA	\$22,192.00
PURCHASE REQUEST NUMBER: 1300538897		

ITEM NO	SUPPLIES/SERVICES		AMOUNT
000302	For Navy Accounting Purposes Only		

CIN: 130053889700001

ACRN AA

\$332.88

PURCHASE REQUEST NUMBER: 1300538897

Section C - Descriptions and Specifications

STATEMENT OF WORK

Statement of Work
N68936-15-D-0004
Task Order 0111
Environmental and E³ Engineering
Version: 11/03/15
This Task Order is severable, PSC Coded R425
Applicable Contract SOW sections:
3.2.1, 3.2.2, 3.2.3, 3.4.1, 3.4.2

1.0 BACKGROUND AND GENERAL SCOPE OF WORK

This Statement of Work covers test, engineering, evaluation, and technical reports (CDRL A005) for Environmental engineering, testing, and evaluation of weapon systems, subsystems, components, and related items. Support also includes Electromagnetic Interference Assessments for radiated and conducted emissions and susceptibilities. The contractor shall provide technical services in the areas of environmental and electromagnetic engineering and test, including planning, procurement, and performing tests, and analyzing and documenting results. (CDRLs A005, A006)

2.0 APPLICABLE DOCUMENTS. The following documents apply to this program and are to be used for reference:

AdPub 015: NAWCWPNS Publications Handbook for Technical Memorandum Format

3.0 REQUIREMENTS.

The Contractor shall receive all test tasks, schedules, plans, test reports, and test procedures required via the Contractor's in-basket. The Contractor may be required to travel to non-local test sites to conduct or monitor environmental tests at contractor and other government facilities.

The Contractor shall conduct Environmental testing and Environmental engineering on identified weapons systems assemblies, subsystems, subassemblies, and components. The Contractor shall, prepare, specifications, test plans, test procedures, test reports, and assessments. (CDRL A005, A00A, A006) The testing shall include radiated and conducted emissions and susceptibilities, as well as other environmental testing. The Contractor and the Government will work together to develop the schedules, test plans and test procedures for conducting or monitoring the local and non-local tests and procurement of necessary resources in support of tests. The Contractor shall provide expertise, review and provide inputs on environmental engineering and test technical literature, and participate in process improvement efforts related to environmental engineering and testing events.

3.1 Test Plans and Procedures The Contractor shall develop test plans and procedures to ensure compliance with specified requirements. (CDRL A00A)

3.2 Test Support The Contractor shall monitor tests being performed and document the test results. The Contractor shall prepare test reports detailing system performance or problems impacting other criteria. (A005, A006)

3.3 Test Analyses and Reports The Contractor shall analyze test data using time series analyses techniques typically utilized within engineering software, such as MatLab, to ensure compliance with specified requirements. The Contractor shall prepare test reports detailing system performance or problems impacting other criteria. (A005, A006)

3.4 Technical Administrative Support The Contractor shall prepare program briefings and technical presentations using Microsoft Word, Power Point, Excel, and MatLab directed toward intended audiences. (A005, A006)

3.5 Project Planning Support

3.5.1 The Contractor shall review environmental engineering and environmental test requirements and objectives versus available technology and program resources and provide assessments of the projected risks along with recommended mitigation measures.

3.5.2 The Contractor shall prepare and submit monthly progress reports to the TA to cover tasks completed, ongoing and planned in support of this Task Order. Reports shall be written in Contractor format. Program Status Reports are to arrive no later than four working days after the beginning of each month. (A005)

4.0 SPECIAL CONSIDERATIONS

4.1 PLACE OF PERFORMANCE

The work for this task order will primarily be performed at NAWCWD, China Lake, CA

5.0 SECURITY

What are the security requirements? Security requirements will be at the Secret level as a minimum, and may also require clearance for Special Access Programs on as needed basis.

6.0 TRAVEL

The Contractor may be required to travel to non-local test sites to attend meetings, and to conduct or monitor tests at contractor and other government facilities.

Location	# of Trips	# of Travelers	# OF DAYS
Fallon, NV	1	1	4
Japan	1	1	14
Yorktown, VA	1	1	5
Lemoore, CA	1	1	4

Yuma, AZ	1	1	4
Beaufort, SC	1	1	5
San Diego, CA	1	1	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	N/A	N/A	N/A	Government
000101	Destination	Government	Destination	Government
0003	N/A	N/A	N/A	Government
000301	Destination	Government	Destination	Government
000302	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
0001	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000101	N/A	N/A	N/A	N/A
0003	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000301	N/A	N/A	N/A	N/A
000302	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 252 77777 0 050120 2F 000000

COST CODE: A00003188373

AMOUNT: \$252,169.95

CIN 130053889700001: \$229,977.95

CIN 130053889700002: \$22,192.00

CLAUSES INCORPORATED BY REFERENCE

52.232-22

Limitation Of Funds

APR 1984

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-15-D-0004	2. DELIVERY ORDER/ CALL NO. 0112	3. DATE OF ORDER/CALL (YYYYMMDD) 2015 Dec 11	4. REQ./ PURCH. REQUEST NO. 1300540590	5. PRIORITY
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6. ISSUED BY CDR NAWCWD CODE 254100D ATTN: M. PETERSON (760) 939-1147 429 E BOWEN RD. STOP 4015 CHINA LAKE CA 93555-5106	CODE N68936	7. ADMINISTERED BY (if other than 6) DCMA MANASSAS 10500 BATTLEVIEW PKWY SUITE 200 MANASSAS VA 20109-2342	CODE S2404A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR ENGILITY LLC NAME (b) (4) AND 3750 CENTERVIEW DR ADDRESS CHANTILLY VA 20151-3200	CODE 02NP8	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
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14. SHIP TO SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER SOUTH ENTITLEMENT OPERATIONS P O BOX 182317 COLUMBUS OH 43218-2264	CODE HQ0338	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. Reference your quote dated Furnish the following on terms specified herein. REF:
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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) 939-1891 EMAIL: bryan.v.gregory@navy.mil BY: BRYAN V. GREGORY	<i>BVG</i>	25. TOTAL \$202,465.05	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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e. 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.

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.
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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	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor CPFF	(b) (4)	Hours		\$196,375.05
	In accordance with the Statement of Work. This Task Order is severable. FOB: Destination				
				ESTIMATED COST	\$ (b) (4)
				FIXED FEE	\$ (b) (4)
				TOTAL EST COST + FEE	<u>\$196,375.05</u>

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000101	For Navy Accounting Purposes Only	
CIN: 130054059000001	ACRN AA	\$30,000.00
PURCHASE REQUEST NUMBER: 1300540590		

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	ODCs - Material COST	1	Lot		\$6,090.00
	FOB: Destination				
				ESTIMATED COST	\$6,090.00

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000201	For Navy Accounting Purposes Only	
CIN: 130054059000002	ACRN AA	\$1,000.00
PURCHASE REQUEST NUMBER: 1300540590		

Section C - Descriptions and Specifications

STATEMENT OF WORK

**Statement of Work
N68936-15-D-0004
Task Order 0131
ESSM System Analysis and Simulation
Version 3/25/2015
Severable; R425
Applicable Contract SOW Sections: 3.1.1, 3.1.2, 3.4.1, 3.5**

1.0 SCOPE. This Statement of Work (SOW) covers support in simulation and modeling of missile guidance and control algorithms, as well as Hardware-in-the-Loop (HWIL) testing of the Evolved Sea Sparrow Missile (ESSM), NATO SEASPARROW and related systems. Tasking will include: Design Engineering, Engineering Analysis, System Integration and Progress Reports.

2.0 APPLICABLE DOCUMENTS. The following documents are in the ESSM TPO repository for access and are to be used for reference:

ESSM Quality Plan
ESSM Reliability Program Plan
ESSM Life Cycle Sustainment Plan
ESSM Configuration Management Plan
ESSM Item Unique Identification Plan
ESSM Block 2 E&MD contract
NATO SEASPARROW training curriculum/presentation material

3.0 PERFORMANCE REQUIREMENTS. All work transmittals, document request forms, or document change notices will be provided by the government via the contractor's in-basket or email. In order to support Integrated Product Teams, such as the Producibility and Supportability SE IPT, as prescribed by the ESSM Block 2 Organizational Structure travel will be required. This travel may occur up to quarterly but attempts will be made to minimize the amount of travel required. The Contractor is expected to comply with the contractor surveillance plan in the basic contract. If specific government format for schedule and reports (documentation) is not provided, contractor formats are acceptable.

3.1 Design Engineering and Review

3.1.1 The Contractor shall participate in, and provide written input in the preparation and review of acquisition documentation for the program requirements and contract preparation.

3.1.2 The Contractor shall prepare and deliver to the Government simulations and studies that will assist in the development of the design requirements and capabilities of the future missile. (A005)

3.1.3 The Contractor shall review design changes to the hardware and software proposed by other Government agencies and Contractors. The Contractor shall attend ESSM planning meetings, flight tests and post-test meetings and provide analysis of Target Detecting Device Telemetry.

3.1.4 The Contractor shall provide modeling and simulation support to the OASuW Project Office. This support shall include reviewing prime contractor simulations used by OASuW and supporting the team in understanding, running and documenting the simulations used by the Project Office to support the program. The Contractor shall also participate in simulation planning meetings and peer reviews along with simulation data analysis reviews.

3.2 Engineering Analysis

3.2.1 The Contractor shall support ESSM CIL analysis tool development. Specifically, the Data Analysis GUI has a static library for loading HIL files and this tool is being upgraded so that the library can be updated whenever a new telemetry format is developed. The Contractor shall increase the tool's capability for use in post flight analysis. The Contractor shall provide Data Analysis GUI tool updates to the Government.

3.2.2 The Contractor shall participate in the maintenance and updating of the simulation tools used in the analysis of ESSM capabilities. The ESSM suite of models include:

- ESSM Block 1 Common 6-DoF
- ESSM Block 1 Code-in-the-Loop Simulation
- ESSM Block 2 Tactical Simulation (ETS)
- HLA/Enterprise Test Bed Laboratory
- ESSM Block 1 International Simulation (INTSIM)
- ESSM Block 2 International Simulation (EIS)
- Target Detecting Device Fuze Simulation (GENSIM/FUZSIM)
- N-Point RCS Model Development,
- Target Vulnerability and Lethality Modeling (JSEM and AJEM)
- Other Simulation/Analysis Models as needed

The specialty areas for ESSM Simulation Support include, but are not limited to:

- RF Modeling & Analysis
- Missile System Modeling & Analysis
- RF Fuze Modeling & Analysis
- Ship Based Fire Control System Modeling & Analysis
- Missile 6 Degree of Freedom (6-DoF) Modeling & Analysis
- Control Theory Modeling & Analysis
- MATLAB Modeling and Analysis
- FORTRAN Software Development
- ADA Software Development
- C++ Software Development

- Custom Embedded Processor Code Development
- Configuration Management (CM)
- High Level Architecture (HLA) development
- Simulation Verification, Validation and Accreditation Support Package development
- Technical Writing
- Information Assurance (IA)

Missile variants modeled include SEA SPARROW, ESSM Block 1, ESSM Block 2 and notional future ESSM missile variants. This includes developing improvements to GenSim and building new or improving existing N-Point target models. The Contractor shall evaluate possible modifications to existing tactical software for the ESSM Target Detecting Device. The Contractor shall review design changes to the hardware and software proposed by other Government agencies and Contractors. The Contractor shall attend ESSM planning meetings, flight tests and post-test meetings and analyze Target Detecting Device Telemetry. The Contractor shall provide pre- and post- flight analysis.

3.3 Training The Contractor shall provide the NATO SEASPARROW training and present information with foreign nationals present, both government and contractor representatives, that are part of the NATO SEASPARROW Consortium both within the US and abroad. The participating governments (PGs) that are part of the consortium are Australia, Belgium, Canada, Denmark, Germany, Greece, Netherlands, Norway, Portugal, Spain, and Turkiye (Turkey). The Contractor shall set up / develop a Simulink model working with other engineers. The Contractor shall use the model for the purposes of simulation and running flight predictions and other Monte Carlo runs.

3.4 Technical Administrative Support The Contractor shall prepare and submit progress reports to the Technical Assistant (TA) documenting the status of ongoing, completed and anticipated future activities, and problem areas in support of the SOW. Progress reports are due by the fifth day of each month. (AOOE)

4.0 SPECIAL CONSIDERATIONS

4.1 Contract Status Reporting

4.2 Place of Performance

The primary place of performance under this contract is China Lake, CA.

5.0 SECURITY

5.1 Personnel Security

Performance of work under this task order will require a clearance level of SECRET. Some work performed under this task order will require a clearance of TOP SECRET.

6.0 TRAVEL

Non-Local travel to attend meetings may be required under this task order. Estimated travel requirements are as follows:

Location	#of Days	#of Trips	# of Travelers
Tucson, AZ	9	4	2
Portsmouth, VA	9	2	1

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	N/A	N/A	N/A	Government
000101	Destination	Government	Destination	Government
0002	N/A	N/A	N/A	Government
000201	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
0001	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000101	N/A	N/A	N/A	N/A
0002	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000201	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 251 77777 0 050120 2F 000000

COST CODE: A00003201888

AMOUNT: \$31,000.00

CIN 130054059000001: \$30,000.00

CIN 130054059000002: \$1,000.00

CLAUSES INCORPORATED BY REFERENCE

52.232-22

Limitation Of Funds

APR 1984

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 8

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-15-D-0004	2. DELIVERY ORDER/ CALL NO. 0113	3. DATE OF ORDER/ CALL (YYYYMMDD) 2015 Dec 29	4. REQ / PURCH REQUEST NO. 1300541263	5. PRIORITY
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6. ISSUED BY CDR NAWCWD CODE 254100D ATTN: T. BARKER (760) 939-3064 429 E BOWEN RD. STOP 4015 CHINA LAKE CA 93555-5106	CODE N68936	7. ADMINISTERED BY (if other than 6) DCMA MANASSAS 10500 BATTLEVIEW PKWY SUITE 200 MANASSAS VA 20109-2342	CODE S2404A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR ENGILITY LLC NAME (b) (4) AND 3750 CENTERVIEW DR ADDRESS CHANTILLY VA 20151-3200	CODE 02NP8	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
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14. SHIP TO SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER SOUTH ENTITLEMENT OPERATIONS P O BOX 182317 COLUMBUS OH 43218-2264	CODE HQ0338	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		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) 939-1891 EMAIL: bryan.v.gregory@navy.mil BY: BRYAN V. GREGORY	36	25. TOTAL	\$173,143.15
	CONTRACTING / ORDERING OFFICER		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 (YYYYMMDD)	d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	28. SHIP NO.	29. DO VOUCHER NO.	30. INITIALS
	<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	33. AMOUNT VERIFIED CORRECT FOR

f. TELEPHONE NUMBER	g. E-MAIL ADDRESS	31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. CHECK NUMBER	35. BILL OF LADING NO.
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36. I certify this account is correct and proper for payment.	a. DATE (YYYYMMDD)	b. SIGNATURE AND TITLE OF CERTIFYING OFFICER	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	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor CPFF	(b) (4)	Hours		\$155,821.16
In accordance with the Statement of Work. This Task Order is Severable. FOB: Destination					
ESTIMATED COST					\$ (b) (4)
FIXED FEE					\$ (b) (4)
TOTAL EST COST + FEE					<hr/> \$155,821.16

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000101	For Navy Accounting Purposes Only	
CIN: 130054126300001	ACRN AA	\$82,678.01

PURCHASE REQUEST NUMBER: 1300541263

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	ODCs - Travel COST	1	Lot		\$17,321.99
In accordance with the Statement of Work. FOB: Destination					
ESTIMATED COST					\$17,321.99

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000301	For Navy Accounting Purposes Only	
CIN: 130054126300001	ACRN AA	\$17,321.99

PURCHASE REQUEST NUMBER: 1300541263

Section C - Descriptions and Specifications

STATEMENT OF WORK

Statement of Work
Contract # N68936-15-D-0004
Task Order 0113
Tomahawk Test and Evaluation (T&E) Support
Version 12/22/14
Severable task order / PSC Code: R425
Applicable SOW Sections:
3.1.2, 3.4.1

BACKGROUND AND GENERAL SCOPE OF WORK:

- 1.1 Background: The Tomahawk Flight Test Team and the Weapons Test & Evaluation (Code 518000D/E) are chartered to provide objective evaluation for the Tomahawk weapon system and subsystem products of both Naval Air Systems Command (NAVAIR) and Naval Sea Systems Command (NAVSEA). This responsibility includes: performing developmental, operational and evaluation testing; planning for and full operational support of each operation; coordination of post-test analysis; missile telemeter and antenna system design; training support for Naval land attack and surface attack weapons, T&E operations and fleet exercises throughout the United States; integration, analyses, evaluation of the performance of Tomahawk Systems and the System of Systems necessary to plan and execute Tomahawk missions.
- 1.2 General Scope of Work: This Statement of Work (SOW) provides for engineering services to the Tomahawk Flight Test Team. Tasking shall include Test and Evaluation (T&E) support including T&E operations and associated fleet weapons training exercises under the cognizance of NAWCWD, and Tomahawk Flight Test Team.

APPLICABLE DOCUMENTS:

2.0 The following list of documents including subsequent revisions will be made available, if required by the contractor to perform the tasks defined in this contract, and is not intended to be all inclusive but is given as a point of reference:

- 2.1 NAVAIRINST 3960.4C (including subsequent revisions), Project Test Plan Policy and Guide for Testing Air Vehicles, Air Vehicle Weapons, and Air Vehicle Installed Systems
- 2.2 OPNAVINST 3960.10 Test and Evaluation
- 2.3 NAWCWD ISEET Test Planning Handbook
- 2.4 NAWCWD ISEET Flight Test Engineer Handbook
- 2.5 Tactical Tomahawk Fact Book
- 2.6 Tomahawk Flight Test and Evaluation Directive (TFTED)
- 2.7 Tomahawk Flight Test Standard Operating Procedures
- 2.8 Tomahawk Test and Evaluation Master Plan 251-4 Rev G
- 2.9 Joint Range Safety Operational Plan (JSROP) 2-02J for the Tomahawk Land Attack Missile
- 2.10 Tomahawk Classification Guide
- 2.11 Test Range and Route Restrictions

Documents will be provided in accordance with basic contract SOW, section 2.0.

Operational Requirements Document, Serial Number 641-76-04, for Tomahawk Weapons System Baseline IV (U)

3.0 REQUIREMENTS. All work transmittals, document request forms, or document change notices will be provided by the government via the contractor's in-basket or email. If specific government format for schedule and reports (documentation) is not provided, contractor formats are acceptable.

3.1 Engineering Analysis

3.1.1 The Contractor shall provide engineering analyses and reviews of the Tomahawk test events. The Contractor shall provide liaison with range and other activities to ensure Tomahawk scenarios and T&E requirements are met (CDRL A005).

3.1.2 The Contractor shall support the Navy Test Conductor and Range Managers in the planning, coordination, and scheduling of Tomahawk flight test assets such as telemetry aircraft, tanker, launch area support ship, and recovery helicopters and personnel. The Contractor shall provide liaison with external agencies such as the Forest Service to coordinate missile over flights during tests as requested by the Lead Test Engineer (LTE). The Contractor shall provide logistics coordination among the multiple, multi-service organizations that participate in the execution of the Tomahawk Test activities.

3.1.3 The Contractor shall provide pre-test configuration of communications networks within the control room and among test team participants outside of the control room. In addition, the contractor shall provide real-time monitoring of telemetry displays, communications among test conduct participants (both verbal, and chat), and assessment of missile subsystem performance as part of the test conduct team. At the conclusion of the test the contractor shall prepare and deliver a communications report.

3.1.4 The Contractor shall review actual missile flight and test execution data for anomalies from pre-flight simulation data for Operational Test Launches (OTL) and Tomahawk Flight Tests (TFT). The Contractor shall support the preparation of Quick-Look, Lessons-Learned, and 24-Hour reports reporting actual flight data regarding launch times, flight paths, recovery data and objectives met from each OTL and TFT. (CDRL A005).

3.1.5 Using information developed under paragraph 3.1.4 of this SOW, the contractor shall analyze and define required data for a variety of targets presented as Tomahawk T&E targets. Data requirements will define the data fields, recording intervals, event nomenclature, and recording medium (CDRL A005).

3.1.6 The Contractor shall create and provide a process flow chart defining the NAWCWD test team and range interactions for Tomahawk Strike Network (TSN).

3.2 Technical Administrative Support

3.2.1 The contractor shall perform technical administrative services including meeting preparation of program documents, technical reports, plans and presentation materials in support of technical meetings and briefings. The Contractor shall provide visual documentation of test events including viewgraphs, slides, video tapes, computer graphics, and printed materials. The Contractor shall edit test related documents and presentation materials as required by the Tomahawk Lead Test Engineer (LTE) for Working Group Meetings (WGMs), Test Planning Meetings (TPMs), Mission Readiness Reviews (MRRs), Mission Briefs, and Operational Briefs. The Contractor shall prepare presentation materials for the Mission Control Panels (MCPs) and LTE portion of Operational Briefs. The Contractor shall attend WGMs that precede the MRRs and MCPs, if required by the LTE. The Contractor shall attend MRRs. There is a WGM, TPM, MRR, MCP, and Mission and Operations Brief for every Tomahawk flight test event. Some material will be produced from government furnished data and other material will be generated by the contractor as a result of on-going efforts under this task order.

3.2.2 The Contractor shall create and provide process flow charts relating to scheduling and coordination of Tomahawk flight test assets, including tanker units, recovery team, launch areas support ship, telemetry, aircraft, and chase aircraft. The Contractor shall provide process flow charts showing what data the asset coordinator collects in the test planning and execution process, who provides that data, and who receives data from the asset coordinator. The Contractor shall prepare and create an asset coordinator checklist used for test operation planning and execution.

3.2.3 The Contractor shall maintain NAWCWD data and update action items in the Tomahawk System Test Data Mall. The Data Mall requires updating action items which will be obtained from sources such as e-mail and technical meetings with the IPT and Program Sponsor. The Contractor will coordinate action item due dates with the responsible action item owners and update their responses into the database. The contractor shall report action item results to the IPT and Program Sponsor via electronic distribution.

4.0 Special Considerations N/A

4.1 Contract status reporting N/A

4.2 Place of performance

The Contractor will perform their duties at NAWCWD, Point Mugu, CA.

5.0 Security

5.1 Personnel Security

Contractor personnel shall have and maintain a SECRET level security clearance.

6.0 Travel: The following long distance travel is anticipated and is authorized in accordance with the SOW and with written approval from the Contracting Officer's Representative (COR):

<u>LOCATION</u>	<u># OF DAYS</u>	<u># OF TRIPS</u>	<u># OF TRAVLERS</u>
China Lake, CA	1	5	1
China Lake, CA	3	2	1
Tucson, AZ	5	2	1
Eglin AFB FL	7	2	1
Kings Bay, GA	7	1	1
San Diego, CA	4	4	1

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	N/A	N/A	N/A	Government
000101	Destination	Government	Destination	Government
0003	N/A	N/A	N/A	Government
000301	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
0001	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000101	N/A	N/A	N/A	N/A
0003	POP 01-JAN-2016 TO 31-DEC-2016	N/A	N/A FOB: Destination	
000301	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 251 77777 0 050120 2F 000000
COST CODE: A00003205872
AMOUNT: \$100,000.00
CIN 130054126300001: \$100,000.00

CLAUSES INCORPORATED BY REFERENCE

52.232-22 Limitation Of Funds

APR 1984