

DRAFT STATEMENT OF WORK (SOW)

Joint Electronic Attack and Compatibility Office (JEACO)

17 August 2011

CLINs 0001-0011 – The Contractor shall provide Production (Hardware) items in accordance with paragraph 1.2, 2.0, and 3.1 below.

CLINs 0012-0021 – The Contractor shall provide Spare items in accordance with paragraph 1.2, 2.0, and 3.2 below.

CLINs 0022-0023 – The Contractor shall provide incidental engineering support services in accordance with 1.2, 2.0, 3.3, and 4.1.1 below.

CLIN 0024 – The Contractor shall provide data in accordance with paragraphs 1.2, 3.1, 3.2, 3.3, 4.1.1, and 5.0 below.

1.0 BACKGROUND AND SCOPE

The SOW provides for radio frequency (RF) amplifiers and RF amplifier limiters hardware and incidental engineering, (defined in paragraph 1.2) in support of the Electronic Warfare (EW) and Electronic Attack (EA) communications jamming pods and laboratories described in paragraph 1.1.

1.1 Background. U.S. Pacific Command has a requirement for persistent, survivable stand-in jamming to augment existing Electronic Attack aircraft in the Pacific theater. The desired solution is a small, low-cost, stealthy unmanned aircraft with a combat radius greater than 500 miles, endurance of 24 hours, and a jammer effective against modern coherent threat systems. The aircraft will penetrate an enemy theater undetected, and loiter for 24 hours to protect military aircraft as they transit through hostile territory.

The rapid pace of technological growth and the proliferation of advanced radar and missile systems will pose significant threats to high value military aircraft in future conflicts. Enemy threat systems are being developed with ever-increasing capabilities and lethal radius. Many of these threats are being proliferated to countries that pose a risk to U.S. interests. The need for airborne electronic attack (AEA) to improve and provide for jamming protection of military aircraft is growing rapidly.

NAWCWD has been tasked with the development, integration, evaluation and test of the network centric Electronic Attack System of Systems (SoS) supporting the Combatant Commands, Office of the Secretary of Defense and the Joint Forces, addressing Air, Ground and Surface EA, for manned and unmanned systems. JEACO Electronic Warfare (EW) and Electronic Attack (AE) products include:

- AN/ALQ-231(V)1 Intrepid Tiger Electronic Attack System (IT II)
- Collaborative Online Reconnaissance Provider/Operationally Responsive Attack Link (CORPORAL)
- Joint Electronic Warfare Effects Laboratory (JEWEL)
- Electronic Attack Payloads (EAP)
- Small Survivable Jammer (SSJ)

1.2 Scope. The scope of this SOW sets forth the Contract Line Item (CLIN) requirements for the following:

CLIN 0001-0011:	Production (Hardware)- FFP
CLIN 0012-0021:	Spares - FFP
CLIN 0022:	Travel - Cost Reimbursable
CLIN 0023:	Incidental Engineering Support Services - CPFF
CLIN 0024:	Contract Data Requirement List (CDRLs) - NSP

The scope of this effort includes the following components as well as future derivatives of the below components:

Model	Description
XRF771	RF Amplifier 80-1000MHZ 200 W
XRF773	RF Amplifier 800-3000MHZ 200 W
XRF824	Module 8.0-8.5GHz, 100W
XRF825	Module 9.3-9.7GHz, 100W
XRF826	Module 14.0-14.5GHz, 100W
XRF770	AMP 80-1000MHz, 125W
XRF772	AMP 800-3000MHz, 125W
LIM00003	High-Band Amplifier Limiter
LIM00006	Lo-Band Amplifier Limiter

Support for multiple sites, including direct Fleet support, will be required. Sites may include the following:

- Naval Air Warfare Center, Weapons Division Point Mugu, CA
- Naval Air Warfare Center, Weapons Division China Lake, CA
- Naval Air Warfare Center, Aircraft Division Patuxent River, MD
- Marine Corps Air Station, Cherry Point NC

In addition, this procurement will provide support for the Joint Virtual Response Analysis Integration & Deployment (JV RAPID) products.

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to this SOW to the extent specified herein:

1	ITSP2-PRS-EAS-01	Performance Requirements Specification for the Intrepid Tiger Electronic Attack System (EAS)	April 2010 - Update
2	MIL-STD-810F	Environmental Test Methods and Engineering Guidelines	01 January 2000
3	MIL-HDBK-781A	Handbook For Reliability Test Methods, Plans, and Environments for Engineering Development, Qualification and Production	01 April 1996
4	ITS2-EAPS-0901	Intrepid Tiger Spiral-2 (ITS2) AN/ALQ-228(V)2 Electronic Attack System Performance Requirements Specification	
5	MIL-HDBK-217F	Reliability Prediction of Electronic Equipment	02 Dec 1991
6	MIL-STD-704	Electric Power, Aircraft, Characteristics and Utilization of	06 Oct 1959
7	SAE Aerospace Standard AS50881D	Wiring Aerospace Vehicle	01 April 1996

3.0 TECHNICAL REQUIREMENTS

The Government will provide the specific technical documentation, guidelines and delivery requirements under individual delivery orders and/or task orders. When ordered under individual delivery/task orders, the contractor shall provide the following:

3.1 CLIN 0001-0011: Production (Hardware). The contractor shall provide hardware in the form of components that will be used by the Navy to build and support communication jamming pods and develop EW laboratory environments. Acceptance testing will be conducted on each unit offered for delivery in accordance the Government approved test procedures. The contractor shall provide the results of each acceptance test in the form of a test report which will be provides with each unit offered for delivery. The contractor shall notify the Government of any intent to replace components within the products defined in paragraph 1.2 herein. The contractor shall maintain a labeling process which enables the Government to identify those products which have a configuration change. The contractor shall maintain the same part number (which corresponds to no change in form, fit, and function of the product listed in paragraph 1.2 herein) and reflect the change in configuration via a revision numbering scheme. (CDRL A003 and A00C)

3.2 CLIN 0012-0021: Spares. The contractor shall provide hardware spare components. The contractor shall provide the results of each acceptance test in the form of a test report which will be provides with each unit offered for delivery. The contractor shall notify the Government of any intent to replace components within the products defined in paragraph 1.2 herein. The contractor shall maintain a labeling process which enables the Government to identify those products which have a configuration change. The contractor shall maintain the same part number (which corresponds to no change in form, fit, and function of the product listed in paragraph 1.2 herein) and reflect the change in configuration via a revision numbering scheme (CDRL A003, A007, A008 and A00C)

3.3 CLIN 0023: Incidental Engineering Support Services.

3.3.1 The contractor shall develop and maintain plans, milestone charts, reviews, analyses, evaluations, and recommendations, which will provide the technical and scientific evidence necessary to facilitate program development decisions. The contractor shall develop technical engineering and presentation graphics and other visual aid requirements as defined in individual delivery/task orders. The contractor will be required to develop and present visual aids reflecting the status of assigned tasks. The contractor shall report programmatic planning, tracking and monitoring progress, status and cost reports. (CDRLs A001, A002, A004, A005, and A009)

3.3.2 The contractor shall provide incidental systems engineering support as described below. (CDRLS A002, A003, A007, and A00A)

- (1) Providing systems engineering analyses
- (2) Performing trade-off studies
- (3) Developing concepts, specifications, planning documents
- (4) Developing, fabricating, integrating, and testing new prototype antenna systems and the modification or customization (specific to platform requirements) of existing antenna systems

3.3.3 The contractor shall provide the incidental test and evaluation engineering support required to test new capability, system modifications, and correction of deficiencies efforts including:

- (1) Supporting lab and flight tests (including performance, functional, environmental, product qualification, and field tests)
- (2) Developing and updating test procedures and plans
- (3) Verifying systems engineering requirements
- (4) Troubleshooting, analyzing, recommending, and incorporating corrective actions

(CDRLs A003, A006, A008 and A00A)

3.3.4 The contractor shall provide incidental service and support for products purchased under CLINS 0002 and 0003. Support includes:

- (1) On-site installation
- (2) Maintenance and Repair
- (3) Spare Parts
- (4) Documentation, Drawing, Manuals and Reports
- (5) Diminishing Manufacturing Sources and Material Shortages (DMSMS) Analyses

(CDRLs A002, A003, A006, A007, A008, and A00B)

4.0 SPECIAL CONSIDERATIONS

4.1.1 CLIN 0022 – Travel. During performance of a delivery/task order, the contractor may be required to perform local and non-local travel to support the tasking. The contractor shall submit a request for travel in support of this contract as defined in individual delivery/task orders. Each request will be submitted in advance (a minimum of one (1) week) to the Government Contracting Officer's Representative (COR) for approval. Each travel request shall minimally consist of:

- Date of Request
- Delivery order number
- Employee(s)
- Date and duration of proposed travel
- Purpose of travel
- Destination
- Cost estimate (airfare, per diem, car rental, miscellaneous expenses)
- Total travel allowance on the delivery/task order
- Total travel cost expended to date
- Approval signatures

Upon completion of each trip, the contractor shall submit a trip report. (CDRL A00B)

4.1.2 Place of Performance. The majority of performance is expected to take place at the contractor's facility. Performance may take place at other Government installations as identified in Section 1.2.

4.1.3 Access to Government Property and Government Facilities. During performance of a delivery/task order, the contractor may require access to Government facilities and Government furnished property. The contractor shall identify each person expected to require access to a Government facility and request approval from the Contracting Officer's Representative (COR) cited in the delivery/task order, for each person expected to require access to a Government facility.

5.0 DELIVERABLES-CLIN 0024

5.1 The Contractor shall deliver the following documents in accordance with the attached DD Form 1423, Contract Data Requirements List (CDRL).

CDRL #	Description	SOW Paragraph (per DD 1423-1)	Due Date	Addressee

A001	Contractor's Progress, Status and Management Report	3.3.1	1 st due 45 days after contract award; subsequent reports MONTHLY on the 15 th day.	1 copy to COR; 1 copy to Contract Specialist; 1 Copy to each TPOC
A002	Technical Report – Study/Services	3.3.1 3.3.2 3.3.4	Upon Government request	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A003	Test/Inspection Report	3.1 3.2 3.3.2 3.3.3 3.3.4	10 days after test completion (GOV has 10 days to review report; contractor then has 5 days to resubmit with GOV comments included)	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A004	Conference Agenda	3.3.1	Upon Government request/TBD in each Delivery/Task Order	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A005	Conference Minutes	3.3.1	Upon Government request/TBD in each Delivery/Task Order	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A006	Revisions to Existing Government Documents	3.3.3 3.3.4	Upon Government request/TBD in each Delivery/Task Order (GOV has 10 days to review report; contractor then has 5 days to resubmit with GOV comments included)	Letter only to COR; Letter only to Contract Specialist;

				1 Copy to each TPOC
A007	Technical Data Package	3.2 3.3.2 3.3.4	Upon Government request/TBD in each Delivery/Task (GOV has 10 days to review report; contractor then has 5 days to resubmit with GOV comments included)	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A008	Presentation Material	3.2 3.3.3 3.3.4	Upon Government request/TBD in each Delivery/Task Order	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A009	Scientific and Technical Report	3.3.1	Upon Government request/TBD in each Delivery/Task Order	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A00A	Acceptance Test Plan	3.3.2 3.3.3	Upon Government request/TBD in each Delivery/Task Order	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A00B	Trip Report	3.3.4	No later than 10 working days after the completion of each occurrence	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC
A00C	Component Replacement Report	3.1 3.2	Upon Government Request	Letter only to COR; Letter only to Contract Specialist; 1 Copy to each TPOC