The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE PAGE 2

15A. NAME AND TITLE OF SIGNER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

(Signature of person authorized to sign)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

BY /s/Elizabeth Norris
(Signature of Contracting Officer)

Elizabeth Norris, Contracting Officer

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243
GENERAL INFORMATION

The purpose of this modification is to change the period of performance from 30 Sept 2015 through 29 September 2016 to 30 September 2015 through 29 September 2017 IAW the Non-Severability Memo. Accordingly, said Task Order is modified as follows: A conformed copy of this Task Order is attached to this modification for informational purposes only.

The Line of Accounting information is hereby changed as follows:

The total amount of funds obligated to the task is hereby increased from $7,195,584.34 by $0.00 to $7,195,584.34.

The total value of the order is hereby increased from $7,195,584.34 by $0.00 to $7,195,584.34.

The Period of Performance of the following line items is hereby changed as follows:

<table>
<thead>
<tr>
<th>CLIN/SLIN</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
</table>
SECTION B Supplies or Services and Prices

CLIN - SUPPLIES OR SERVICES

For FFP Items:

<table>
<thead>
<tr>
<th>Item</th>
<th>PSC</th>
<th>Supplies/Services</th>
<th>Qty</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3001</td>
<td>J058</td>
<td>NCR Security Engineering Support Labor, Material, Travel, Miscellaneous Subcontracting, and additional Other Direct Costs...</td>
<td>1.0</td>
<td>LO</td>
<td>$7,195,584.34</td>
<td>$7,195,584.34</td>
</tr>
<tr>
<td>300101</td>
<td>J058</td>
<td>ACRN: AA Cost Code: 45015RC36M95 CIN:130049416300002 (Fund Type - TBD)</td>
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</tr>
</tbody>
</table>

CONTRACT NO. N65236-12-D-4144
DELIVERY ORDER NO. 0002
AMENDMENT/MODIFICATION NO. 01
PAGE 1 of 36
FINAL
SECTION C Descriptions and Specifications

TASK ORDER (TO) PERFORMANCE WORK STATEMENT (PWS)
SPACE AND NAVAL WARFARE SYSTEMS CENTER, ATLANTIC

N65236-12-D-4139/4145

PWS Tracking Number #041515-01 Rev 00
CRM – 15 - 01302

SHORT TITLE: MST MUL RDR_CAMERA FY15

1.0 PRIMARY PLACE(S) OF PERFORMANCE

The following site(s) identify contractor employees’ originating office location and the location of government provided facilities, if applicable to this TO. Travel locations (i.e., temporary duty sites) are specified in the Travel Section under TO PWS Para 10.0.

1. a. SSC LANT, Building 3147, Naval Weapons Station, Charleston, SC
1. b. Contractor Facilities

HMX Quantico, Building 2134a, Quantico, VA facility - (Primary Place of Performance)

2.0 TASK ORDER PURPOSE

2.1 BACKGROUND

The USMC ESS Integrated Product Team (IPT) installs and maintains early warning detection and surveillance systems at multiple Marine Corps bases. Early warning detection equipment consists of Ground Based Radars (GBRs), Ultra Long Range Thermal Imagers (ULRTIs), and Network Video Recorders (NVRs). This equipment is currently integrated with a Common Operational Platform (COP) named TASS (Tactical Automated Security System).

2.2 SCOPE

The major portion of the work will be done at Building 2134a, Quantico, VA Upon system acceptance for each of the fully functional systems for the locations listed in 10.0, a fully certified and documented Information Assurance (IA) approval by the government will verify the systems for retrofit at their respective locations.
Work under this order includes survey, design, procurement, installation, testing, and turnover support for the MST MUL RDR_CAMERA FY15 project. The Contractor shall replace TASS with the Joint Integration Group for System Architecture Workspaces (JIGSAW) components. JIGSAW will be modified to work with the newly selected GBRs, ULRTIs, and NVR devices.

3.0 APPLICABLE DOCUMENTS

3.1 REFERENCES

All references listed within the basic contract are required as applicable to this TO. In addition, the following reference(s) is identified specific to this TO:

<table>
<thead>
<tr>
<th>Document Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>e. NFPA 70E</td>
<td>Standard for Electrical Safety in the Workplace-(Latest Edition)</td>
</tr>
<tr>
<td>g. NFPA 780</td>
<td>Standard for the Installation of Lighting Protection Systems-(Latest Edition)</td>
</tr>
<tr>
<td>h. ESS EBP</td>
<td>USMC ESS-Engineering Best Practices-(Latest Edition)</td>
</tr>
<tr>
<td>i. ESS SEL</td>
<td>USMC ESS-Standard Equipment List-(Latest Edition)</td>
</tr>
<tr>
<td>j. ESS SERF</td>
<td>USMC ESS-Standard Equipment Request Form-(Latest Edition)</td>
</tr>
<tr>
<td>m. ESS IDP STD</td>
<td>USMC ESS-DRAWINGSTANDARDS-(Latest Edition)</td>
</tr>
<tr>
<td>n. ESS ATP</td>
<td>USMC ESS-MNS Acceptance Test Plan Template--(Latest Edition)</td>
</tr>
<tr>
<td>o. ESS SSR</td>
<td>USMC ESS-MNS Site Survey Report Template-(Latest Edition)</td>
</tr>
<tr>
<td>Q. SPAWAR Systems Center Atlantic Instruction 4200.5,</td>
<td>Contractor Performance Assessment, Reporting System (CPARS)-(Latest Edition)</td>
</tr>
</tbody>
</table>

3.2 SOURCE OF DOCUMENTS

The contractor shall obtain all applicable documents. Specifications and commercial/industrial documents may be obtained from the following sources:

Copies of Federal Specifications may be obtained from General Services Administration Offices in Washington, DC,
Seattle, San Francisco, Denver, Kansas City, MO., Chicago, Atlanta, New York, Boston, Dallas and Los Angeles.

Copies of military specifications may be obtained from the Commanding Officer, Naval Supply Depot, 3801 Tabor Avenue, Philadelphia, PA 19120-5099. Application for copies of other Military Documents should be addressed to Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Ave., Philadelphia, PA 19120-5099.

All other commercial and industrial documents can be obtained through the respective organization’s website.

3.3 SPECIFICATIONS

All specifications listed in the basic contract are applicable as required by this TO.

3.4 ACRONYMS

COP – Common Operating Platform
DISA – Defense Information Systems Agency
EWS – Early Warning System
IWS - Integrated Waterside Security
JIGSAW - Joint Integration Group for System Architecture Workspaces
MST – Master (refers to one type of project commonly managed by USMC ESS)
NVR – Network Video Recorder
STIG – Security Technical Implementation Guide
TASS –Tactical Automated Security System
ULRTI – Ultra Long Range Thermal Imager
IA – Information Assurance
ATO – Authority to operate
JIM – Jigsaw Integration Module
SDK – Software Development Kit
GBR – Ground Based Radar
FDB – Field Distribution Box

3.4 DEFINITIONS
Acceptance Test Plan (ATP) – USMC ESS template used during Government Test and Acceptance to sufficiently detail / document testing of the installed system / equipment capabilities

Burn-In Period – A designated period of time used to determine the successful operation of the installed system

Electronic Security Systems Information Management System (ESSIMS) – A web-based project management tool that provides lifecycle support, reporting capabilities, and real time data management for United States Marine Corps (USMC) Electronic Security Systems (ESS) projects

Early Warning System – Any map client based system with zoning that can regulate, indicate, and control alarm events.

Government Test and Acceptance – Physical testing of the operation and functionality of an installed system to demonstrate to the Site that the new system / equipment has been properly installed and is ready for Site acceptance

Uninterrupted – Term referenced during Burn-In Periods to imply that the system installed and the overall base system have no instances of failure resulting in system downtime

4.0 SECURITY REQUIREMENTS

4.1 ORGANIZATION

Work performed under this task order shall be “unclassified.”

4.2 PERSONNEL

Prior to commencement of work on this contract, all contractor personnel (including administrative and subcontractor personnel) shall have, at a minimum, a favorable Trustworthiness Determination, which is determined by a National Agency Check with Local Agency Check and Credit Check (NACLC) and favorable FBI fingerprint checks. The following labor categories require personnel security clearances:

<table>
<thead>
<tr>
<th>Labor Category</th>
<th>Required Minimum Security Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Manager</td>
<td>Secret</td>
</tr>
<tr>
<td>Engineer/Scientist 2</td>
<td>Secret</td>
</tr>
<tr>
<td>Project Manager</td>
<td>Secret</td>
</tr>
<tr>
<td>Security Specialist 4</td>
<td>Secret</td>
</tr>
</tbody>
</table>
4.2.1 VISIT REQUEST

The Contractor’s request for visit authorization shall be submitted in accordance with Site access requirements not later than one (1) week prior to visit to SSC LANT or Marine Corps Sites listed in Section 1. Access requirements may differ at each Site. For Site specific requirements, contact the SSC LANT Contracting Officer’s Representative (COR) listed in Section 5. To be granted visitor access to SSC LANT, an SSC LANT Government employee must send an approving email to the appropriate SSC LANT Visitor Control functional mailbox and a visit request shall be submitted by the Contractor via JPAS or faxed to the appropriate SSC LANT Security Office. For further instructions, contact the COR.

5.0 COR DESIGNATION

The Contracting Officer Representative (COR) for this task order is Norbert Stiepel (52150) who can be reached at (843) 614-2371 (cell), (843) 218-3704 (office), and e-mail: norbert.stiepel@navy.mil.

6.0 DESCRIPTION OF WORK

6.1 CONTRACT MONITORING AND MAINTENANCE

6.1.1 Contract Administration Documentation

Contractor shall provide various types of contract administration documents throughout the life of the contract. At a minimum, the contractor shall provide the following documentation:

6.1.1.1 Contract and Task Order (TO) Status Reports (CDRL A006)

Contract and Task Order Status Reports shall be developed and submitted monthly to the COR. The prime shall be responsible for collecting, integrating, and reporting all subcontractor reports.

Contract Status Report – A monthly contract status report shall be provided to the COR. Due on the 10th of each month, the report shall include, at a minimum, the following items and data:

1. Period of performance
2. Period of reporting
3. List all contract level Modifications, date of modification, sentence summary, and if applicable, list the total...
modification funding amount

4. List total labor hours expended (current and cumulative) per company

5. List total labor cost (current and cumulative) per company

6. List total Other Direct Costs (ODCs) expended (current and cumulative) per company

7. List total Travel expended (current and cumulative) per company

8. List total Material expended (current and cumulative) per company

9. List total contract ceiling amounts: labor hours and costs

10. List total remaining contract ceiling amounts: labor hours and costs

11. List all TOs written against the basic contract (annotate TOs being submitted as a monthly report, completion dates and those completed)

6.2 SYSTEM ENGINEERING SUPPORT

The Contractor shall provide system engineering support to include installation tests and systems tests for validation of all system performance requirements.

6.2.1 Software Engineering

The Contractor shall utilize certified software and computer personnel. The contractor shall document the software engineering approach in a Software Development Plan (SDP). At a minimum, the SDP shall meet the following criteria.

6.2.1.1 Software Development Plan (SDP) (A009)

A revision to the current JIGSAW SDP (supplied 14 days after contract award) shall be initially delivered to the COR, No Later Than (NLT) one week prior to commencement of software activity. Subject to review, the SDP shall be placed under configuration control after it has been approved by the Government. The document shall be resubmitted for review and government approval when periodic updates are performed subsequent to process improvement reviews.

6.2.1.2 Pre-Installation Test and Checkout (PITCO) for integrated systems

The Contractor shall perform testing and configuration of all GFE and procured equipment at Bldg 2134a, Quantico, VA. The procured equipment shall be configured, tested and then reviewed for IA approval. The Contractor shall be familiar with IA methods and procedures (DIACAP 8200.2). This includes all radars, ULRTIs, switches, servers and client computers.
The PITCO shall be conducted at the Government facility at Quantico building 2134A.

The PITCO shall include complete installation and systems tests for system validation for all Radar, ULRTI system performance requirements. All sensors, switches, servers must be functioning in unison.

6.2.1.3 Nexus JIM integration

The contractor shall integrate the FLIR Nexus SDK defined software into the JIGSAW application - (hosted on a GFE server) via the JIM interface SDK provided by the government. The integration at a minimum shall provide all the functionality as is currently being provided by ULRTI devices within the current Flight line, and Waterside installs.

6.2.1.4 GENETEC JIM integration

The contractor shall integrate the GENETEC SDK defined software into the JIGSAW application - (hosted on a GFE server) via the JIM interface SDK provided by the government. The integration at a minimum shall provide all the functionality as is currently being provided by Video Recording devices within the current Marine Corps installs.

6.2.1.5 HRC-S JIM integration

The contractor shall integrate the FLIR HRC-S thermal into the JIGSAW application - (hosted on a GFE server) via the JIM interface SDK provided by the government. The integration at a minimum shall provide all the functionality as is currently being provided by ULRTI devices within the current Flight line, and Waterside installs.

6.2.1.6 R20SS JIM integration

The contractor shall integrate the FLIR R20SS radar into the JIGSAW application - (hosted on a GFE server) via the JIM interface SDK provided by the government. The integration at a minimum shall provide all the functionality as is currently being provided by GBRs within the current Flight line, and Waterside installs.

6.2.1.7 R5 JIM integration

The contractor shall integrate the FLIR R5 radar into the JIGSAW application - (hosted on a GFE server) via the JIM interface SDK provided by the government. The integration at a minimum shall provide all the functionality as is currently being provided by GBBs within the current Flight line, and Waterside installs.
6.3   SYSTEM IMPLEMENTATION

After the Project Kick-Off Meeting, the Contractor shall develop a detailed POAM listing all tasks required to complete the installations. Each milestone will have a start and completion date listed. Additionally, the Contractor shall ensure SSC LANT review times are factored in. The Contractor shall ensure the following tasks are included in the POAM:

- Site Survey,
- Site Survey Report
- 50% IDP
- Long Lead Item Procurement
- 100% IDP
- Installation IDP
- Equipment Procurement
- Installation (i.e., Contractor On-Site)
- Pre-Acceptance Testing
- Burn-In Period and Training
- Site/Government Acceptance Testing (i.e., Test & Checkout)
- As-Built Drawings
- System Acceptance (DD250 Material Inspection and Receiving Report)

The Contractor shall develop the POAM in Microsoft Project, save it in PDF format, and then email it to the SSC LANT COR no more than ten (10) business days following the Project Kick-Off meeting. The SSC LANT COR will then review the POAM, provide any comments/edits back to the Contractor (where necessary), and provide final approval once any / all issues have been addressed. An emailed approval notification from the SSC LANT COR indicates authorization to proceed with the execution of the project. The Contractor shall maintain and update the POAM for the life of the project. When changes to the POAM impact project completion, the Contractor shall submit an updated POAM that reflects percent completions for missed milestones to the SSC LANT COR. If any task on the current POAM has changed by more than one (1) week, the Contractor shall submit a new (revised) POAM to the SSC LANT COR within five (5) business days of when the change was identified. The Contractor shall state the reason for the schedule change in an email or letter that will accompany the new POAM. The SSC LANT COR will email approval of POAM changes to the Contractor indicating permission to proceed with the project.

6.3.1   Pre-Installation

- 6.3.1.1   Site Survey (T001)
The Contractor shall go to the installation site and survey the proposed installation areas/buildings to ensure a detailed understanding of what will be required. The Contractor shall develop a Site Survey Report using the Government-provided Site Survey Report Template. The Site Survey Report will detail the results of the survey and will use the data to confirm initial project requirements can be met with existing Task Order funds. The Contractor shall develop the report in Microsoft Word and email the completed report to the SSC LANT COR for review and approval no later than ten (10) business days after Site Survey completion.

6.3.2  Installation Design Support

6.3.2.1  Interconnecting Wiring Diagram (T002)

The Contractor shall develop interconnecting wiring diagram drawings (s) that illustrate the termination of cables at and in each of the system units. The Contractor shall ensure the wiring diagrams include the following information:

- The diagrams shall break out the individual conductors of a cable and show the point-to-point connection of the cable’s terminal ends.
- Cable designators; termination locations (Enclosure or equipment designation); jack, plug, or terminal block labels; and pin or terminal numbers shall also be included in the wiring diagram to identify the precise position of each termination.
- The function of each wire shall be clearly labeled. If multi-conductor cables or different colored conductors are used, then the color shall also be listed on the drawing.
- The color of wiring used for terminations of devices shall be consistent throughout the design and installation.
- Separate terminal blocks shall be used for AC and DC voltages.
- These drawings shall include all wiring for all equipment installed.
- Though only one terminal end of a cable may be depicted on a single wiring diagram, the other terminal end shall be identified by referencing the sheet number on which the terminations are detailed; the jack, plug, or terminal block labels; and pin or terminal numbers.
- If the terminal end of the cable is connected to equipment installed by others, it shall be noted.
- This drawing shall also include a table, detailing jumper and dipswitch configurations for each of the field configured system units.

6.3.2.2  Installation Design Package (IDP) (CDRL A011).

The Contractor shall develop a 100% IDP that includes finalized system power flow diagrams, interconnecting wiring diagrams, and fabrication and assembly details. The Contractor shall provide two (2) 11x17 hard copies and email a PDF version of the 100% IDP to the SSC LANT COR who will review and provide comments within ten (10) business days from receipt of package.

The Contractor shall develop an Installation IDP. The Installation IDP is the 100% IDP with all comments.
incorporated and is used/followed during the installation of the equipment/system. The Contractor shall submit the completed 100% IDP Review form to the SSC LANT COR. The Contractor shall provide two (2) 11x17 hard copies and email a PDF version to the SSC LANT COR who will review and provide comments within five (5) business days from receipt of package. Installation activities in 6.4 below may not begin without SSC LANT written approval of the Installation IDP.

The Contractor shall include only revised sheets for the 100% and Installation IDP hard copy submissions. Each stage following the 100% IDP shall include prior revised sheets. The electronic (PDF) copy that is submitted shall include all revised and non-revised sheets to make a complete drawing package.

6.3.2.3 As-built IDP (CDRL A012)

The contractor shall prepare the As-built drawings to accurately reflect the completed system installations.

The Contractor shall ensure that As-Built IDP submissions include a completely integrated version of the revised drawing packages, including newly revised sheets and the unrevised sheets, making up a complete drawing package.

The Contractor will use the Redlined IDP to develop the As-Built IDP. The Contractor will submit three (3) 11” x 17” hard copies of the As-Built IDP and one (1) digital copy of the As-Built IDP in AutoCAD format (i.e., a password protected CD-ROM with the classification marked “UNCLASSIFIED”) within ten (10) business days of completion of formal Government Test and Acceptance. The Contractor will submit the completed Installation IDP Review form to the SSC-LANT COR (i.e., including all responses to the SSC-LANT COR’s comments).

The SSC LANT COR will review the completed IDPs at the end of each phase and provide comments and revisions to the Contractor after receipt of the IDPs. SSC LANT COR will provide written approval to the Contractor at each phase completion signifying authorization to continue to the next phase.

6.3.2.4 Installation Description

The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS Beaufort, S.C:

ATC tower location:

- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets and securely mount the R5 to the top of the 12000’s cabinet.
- Connect the R5 radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use it as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

Boat Ramp Location:
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

Fuel Pier location:
- Remove the ICX 4400 Radar and all related components and return to the COR.
- Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

SAR Pond location:
- Remove the Arbor Rigid speaker computer and return to the COR.
- Connect a Raspberry Audio IP device to the existing audio amplifier.

PMO location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server using the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.
- Connect a Pi 2 extender device to an audio adaptor for reception of audio from an R420 output.

6.3.2.5 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS New River, N.C.

Seaplane Ramp tower location:
- Remove the Arbor Rigid speaker computer and return to the COR.
- Connect a Raspberry Audio IP device to the existing audio amplifier.
- Remove the ICX 4400 Radar and all related components and return to the COR.
- Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

TACAN tower location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000's cabinet. Connect the R5 radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use it as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

PMO location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install the JIGSAW server and connect with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.
- Connect a Pi 2 extender device to an audio adaptor for reception of audio from an R420 output.

6.3.2.6 The Contractor shall perform the following Radar installations and TASS removal at MCB Camp Lejeune, N.C.

Courthouse Bay tower location:
- Remove the ICX 4400 Radar and all related components and return to the COR.
- Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.

MARSOC tower location:
- Remove the ICX 4400 Radar and all related components and return to the COR.
- Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.

Hospital tower location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000’s cabinet. Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.

911 call center location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install the JIGSAW server and connect using the previous TASS connections.
- Connect two Dual port Lantronix units to the existing switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.7 The Contractor shall perform the following JIGSAW installations at MCALF Bogue Field, NC N.C.

Air Ops Tower location:
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

Air Ops Building location:
- Remove the demo JIGSAW server and return to the COR.
- Install the PITCO-tested JIGSAW server and connect with the demo JIGSAW connections.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the desk next to Air OPS.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.

Guard House location:
- Remove the demo JIGSAW client computer and return to the COR.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the guardhouse.

6.3.2.8 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS Cherry Point, N.C.

Old ATC Tower location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000's cabinet. Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

Golf Course Tower location:
- Connect the R5 radar to the suppression panel.
- Mount the HR-S camera in the previous HRC-U mounting location (previously transferred to the ATC tower).
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

PMO Location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install the JIGSAW server and connect using the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
6.3.2.9 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS Quantico HMX-1

Crash Fire Rescue Tower location:

- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000's cabinet. Connect the R5 radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

White side Green side Dispatch location:

- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.10 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCSF Blount Island

Creekside location:

- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

Point location:

- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
Main gate location:

- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

PMO location:

- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.11 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS Miramar, CA

Fire pit Tower Location

- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000's cabinet. Connect the R5 radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

PMO location:

- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.12 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS Camp Pendleton, CA

Hot Fuel location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R2 to the top of the 12000's cabinet. Connect the R2 radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

PMO location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

Red Beach Location:
- Place a concrete movable foundation at Red Beach for installation of the SkyWatch Manned System and the Zomeworks Power Skid.
- Mount and install a Motorola PTP 600 wireless at the SkyWatch manned system and the Las Pulgas gate ensuring connectivity back to the JIGSAW server at PMO.
- Install a Dell Optiplex 9020 client computer and attach to an Xbox controller inside the SkyWatch cab.
Mount two Dell monitors inside the cab for viewing of radar and camera video on the JIGSAW client.

TASS 2 location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Connect a Dual port Lantronix unit to the existing switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.13 The Contractor shall perform the following Radar install and TASS removal at MCAGCC Twentynine Palms, CA

Camp Wilson Tower location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000’s cabinet. Connect the R5 radar to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

PMO location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.14 The Contractor shall perform the following Radar/ULRTI installations and TASS removal at MCAS Yuma

Tower 1 location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R20SS to the top of the 12000’s cabinet. Connect the R20SS (scanning) radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-U video, power, and CAT 5 cable.
- Mount the HR-U camera in the same location as the AXSYS camera.
- Connect the HRC-U to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Meanwell power supply in the existing FDB, to power the HRC-U.
- Install a Radio link between Tower 1 and Tower 2 using the GFI Fortress equipment.

Tower 3 location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R20SS to the top of the 12000’s cabinet. Connect the R20SS (scanning) radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-U video, power, and CAT 5 cable.
- Mount the HR-U camera in the same location as the AXSYS camera.
- Connect the HRC-U to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Meanwell power supply in the existing FDB, to power the HRC-U.
- Install a Radio link between Tower 3 and Tower 2 using the GFI Fortress equipment.

Tower 2 location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the two R20SS radars to the top of the 12000’s cabinet. Connect two of the R20SS (fixed) radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-U video, power, and CAT 5 cable.
- Mount the HR-U camera in the same location as the AXSYS camera.
- Connect the HRC-U to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Meanwell power supply in the existing FDB, to power the HRC-U. Install a Radio link between Tower 2 and the auxiliary landing field on the range, using the GFI Fortress equipment.

ATC Tower location:
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

Airfield Tower location:
- Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
- Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R5 to the top of the 12000’s cabinet. Connect the R5 radar to the suppression panel.
- Remove the AXSYS camera and return to the COR.
- Remove the AXSYS system cable and use as a pull string for the HRC-S video, power, and CAT 5 cable.
- Mount the HR-S camera in the same location as the AXSYS camera.
- Connect the HRC-S to the suppression panel.
- Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
- Install a Meanwell power supply in the existing FDB, to power the HRC-S.

PMO location:
- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
· Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.15 The Contractor shall perform the following Radar install and TASS removal at MCAS Kaneohe Bay, HI

· Remove the ICX 12000 Radar dish structure mounted on the rotating computer assembly and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws.
· Secure the ICX 12000 rotating computer assembly with existing L brackets, securely mount the R2 to the top of the 12000's cabinet. Connect the R2 radar to the suppression panel.
· Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.

PMO location:
· Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
· Install and connect the JIGSAW server with the previous TASS connections.
· Connect a Dual port Lantronix unit to the existing switch.
· Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
· Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

6.3.2.16 The Contractor shall perform the following Radar/ULRTI installations and TASS removals at MCAS Futenma, Okinawa, Japan

CO location:
· Remove the ICX 4400 Radar and all related components and return to the COR.
· Connect the R5 radar to the suppression panel.
· Remove the AXSYS camera and return to the COR.
· Remove the AXSYS system cable and use as a pull string for the HRC-S video, power, and CAT 5 cable.
· Mount the HR-S camera in the same location as the AXSYS camera.
· Connect the HRC-S to the suppression panel.
· Replace the current switch with a fully hardened, interconnected CISCO IE 2000 switch within the FDB.
· Install a Meanwell power supply in the existing FDB, to power the HRC-S.

PMO location:
6.3.2.16 The Contractor shall perform the following TASS removal at MCAS Iwakuni, Japan

PMO location:

- Remove the TASS computer and dispose of in accordance with local base policies at the local base dump/salvage yard. If on-base dump/salvage yard is not available, then debris and materials must be disposed of off-base according to local community regulations and salvage laws. The hard drive shall be returned to the COR.
- Install and connect the JIGSAW server with the previous TASS connections.
- Connect a Dual port Lantronix unit to the existing switch.
- Install an Axis encoder, attach camera video and connect to the Cisco IE 2000 switch.
- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the dispatch desk.

EOC location:

- Install a Dell Optiplex 9020 client computer and attach to the Xbox controller at the EOC.

6.4 TESTING AND EVALUATION

6.4.1 Testing Documentation

6.4.1.1 Test plans and procedures (CDRL A013)

The contractor shall develop test plans and procedures and perform tests associated with systems integration, installation, operation, and site design.

6.4.2 Training

6.4.2.1 Training course materials (CDRL A015)
The contractor shall develop training course materials (revise existing JIGSAW manual pertaining to installed equipment) and audio/visual training aides via on-site JIGSAW client equipment to support instruction in system and equipment operation and maintenance. The training courses shall be developed for self-paced on-the-job instruction.

6.5 PROGRAM MANAGEMENT

The contractor shall work closely with the government project manager and support at the sponsor level and at the contract level to ensure that requirements are met on schedule and within budget.

6.5.1 Program Support

The contractor shall work closely with the government project manager and provide any critical scheduling, safety, or task completion concerns in writing.

6.5.1.1 Program management contract deliverables (CDRL A001)

The contractor shall provide cost estimates on all purchase equipment before actual procurement. The contractor shall provide meeting agendas within 1 week prior to the meetings, and minutes of those meetings within 1 week after. The contractor shall also provide a Plan of Action and Milestone (POA&M) as outlined in 6.3. These Program management contract deliverables shall be provided within 45 days from award.

6.6 Task Order Administration

6.6.1 Basic Contract Requirement

In accordance with the basic contract PWS and the requirements of this task order PWS, the contractor shall develop and submit documentation (see CDRLs under Para 12.1.1) as required for TO administration.

6.6.2 Task Order Requirement

The following TO specific administrative support and CDRLs are required for this task orders; see Attachment # for applicable DD-1423 forms. See 12.1.1 and 12.1.2

7.0 GOVERNMENT FURNISHED INFORMATION (GFI)

Contractors shall use online sources to obtain copies of any necessary documentation (specifically listed under Para 3.0) needed for performance on this TO.
following table lists GFI that will be provided to the contractor. All GFI distribution, location, and inventory shall be tracked by the contractor. The contractor shall make this tracking information available to the government as needed. Unless otherwise specified, all GFI will be returned at completed of TO. Note: if contractor requires additional GFI other than what is listed, the contractor shall submit a request to the COR within 30 days after TO award.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>GFI Estimated Delivery Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Current JIGSAW / JIM Dev. Software/SDP and documentation</td>
<td>14 days after TO award</td>
</tr>
<tr>
<td>2</td>
<td>Applicable Site Installation drawings.</td>
<td>Within 60 days of Award</td>
</tr>
</tbody>
</table>

8.0 GOVERNMENT FURNISHED PROPERTY (GFP)

8.1 GOVERNMENT FURNISHED EQUIPMENT (GFE)

Government Furnished Property (GFE) includes Property, Plant and Equipment (PP&E) (equipment, machine tools, test equipment, etc), Special Test Equipment (STE), and Special Tooling (ST). GFE to be provided to the contractor will consist of equipment identified in the Scheduled Government Furnished Property (SGFP) form. All GFE will be provided within 30 days after TO award. After physical receiving GFE, the contractor shall update and complete all information listed in the SGFP/RGFP form and return any revisions to the COR and Ordering Officer within 7 days of receipt. The contractor shall also update the Wide Area Workflow (WAWF) GFP property module to receipt property transfer. The Ordering Officer will upload the SGFP/RGFP form(s) to Electronic Document Access (EDA). A monthly listing of GFE received by the contractor is required as part of the TOSR (CDRL A002).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>GFI Estimated Delivery Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dell R420 server - quantity of 15</td>
<td>60 days after TO award</td>
</tr>
<tr>
<td>2</td>
<td>Dell Optiplex 9020 - quantity of 15</td>
<td>60 days after TO award</td>
</tr>
<tr>
<td>3</td>
<td>Fortress ES520-35 – quantity of 6</td>
<td>60 days after TO award</td>
</tr>
</tbody>
</table>
8.2 GOVERNMENT FURNISHED MATERIAL (GFM)

No GFM will be provided on this TO

9.0 CONTRACTOR ACQUIRED PROPERTY (CAP)

9.1 CONTRACTOR ACQUIRED EQUIPMENT (CAE)

No CAE is allowed on this TO.

9.2 CONTRACTOR ACQUIRED MATERIAL (CAM)

Contractor Acquired Material (CAM) includes Operating Material and Supplies (OM&S). This includes materials purchased by the contractor that shall be incorporated into, or attached to a deliverable end item or that may be consumed or expended in performing a TO. CAM provided by the contractor shall consist of material identified in table below.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description, CAM</th>
<th>Unit/Issue</th>
<th>Quantity</th>
<th>Total Est. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Nexus Software License <em>(P/N NS204-FSM2010-P)</em></td>
<td>$4,148</td>
<td>12</td>
<td>$49,776</td>
</tr>
<tr>
<td>2.</td>
<td>Ranger HRC-U MS w Huber mount, ITAR, UR-TV, NTSC, Sand <em>(P/N G009495)</em></td>
<td>$186,930</td>
<td>3</td>
<td>$560,790</td>
</tr>
<tr>
<td>3.</td>
<td>Ranger HRC-U, ITAR, Color Sand <em>(P/N 614005704/22A)</em></td>
<td>$104,895</td>
<td>1</td>
<td>$104,895</td>
</tr>
<tr>
<td>4.</td>
<td>Ranger HRC-S MS, ITAR, SR-TV, NTSC, Color Sand with Huber mount <em>(P/N 614006699/221NNN+)</em></td>
<td>$134,140</td>
<td>9</td>
<td>$1,207,260</td>
</tr>
<tr>
<td>5.</td>
<td>Ranger HRC-S, ITAR, Color Sand <em>(P/N 614005703/22A)</em></td>
<td>$80,745</td>
<td>2</td>
<td>$161,490</td>
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<tr>
<td>6.</td>
<td>System Cable, P/T to JPC, 15 m <em>(P/N 614005292/03)</em></td>
<td>$3,148</td>
<td>12</td>
<td>$37,776</td>
</tr>
</tbody>
</table>
### 10.0 TRAVEL

For estimating purposes, it is anticipated that the travel requirements noted below shall be required. Travel to foreign countries outside of the continental United States (OCONUS) is required. The applicable countries include the following: Iwakuni and Futenma Japan. Prior to travel, the contractor shall meet all necessary travel requirements for their company and personnel to support work in the noted foreign OCONUS sites.

<table>
<thead>
<tr>
<th># Trips</th>
<th># People</th>
<th># Days/Nights</th>
<th>From (Location)</th>
<th>To (Location)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Blount Island, FL</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Beaufort, SC</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>New River, NC</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Bogue, NC</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>LeJeune, NC</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Cherry Point, NC</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Quantico, VA</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Miramar, CA</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>7/6</td>
<td>Charleston, SC</td>
<td>Camp Pendleton, CA</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>29 Palms, CA</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>7/6</td>
<td>Charleston, SC</td>
<td>Yuma</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4/3</td>
<td>Charleston, SC</td>
<td>Kaneohe Bay, Hi</td>
</tr>
</tbody>
</table>

**Total** $6,046,669
Synchronized Pre-deployment & Operational Tracker: In the event it is necessary for Contractor personnel to travel in performance of this PWS, and should it be necessary for the Government to furnish services to such personnel or provide access to Government facilities, the contractor shall initiate a Letter of Authorization (LOA) for each prospective traveler. The contractor shall use the Synchronized Pre-deployment & Operational Tracker (SPOT) web-based system, at http://www.dod.mil/bta/products/spot.html, to enter and maintain data with respect to traveling/deployed personnel, and to generate LOAs. When on official travel and when it is in the best interest of the Government, the Contractor may also initiate an LOA request when it desires to take advantage of travel discount rates in accordance with Government Contracts and/or agreements. It is noted that all privileges, services, and travel rate discount access is subject to availability and vendor acceptance.

### 11.0 TRANSPORTATION OF EQUIPMENT/MATERIAL

Transportation of equipment and/or material is applicable for the noted GFP and/or CAP. The contractor shall be responsible for packing, shipping, and delivery of items. For estimating purposes, it is anticipated that the following transportation requirements shall be required:

<table>
<thead>
<tr>
<th>Type (GFP/CAP)</th>
<th>Item Description</th>
<th>Qty</th>
<th>Origination</th>
<th>Destination</th>
<th>Schedule</th>
<th>Responsibility (GOVT/CTR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFP</td>
<td>Dell R420 server</td>
<td>15</td>
<td>SPAWAR LANT Bldg 4000</td>
<td>Quantico, VA Bldg 2134a</td>
<td>3/30/16</td>
<td>GOVT</td>
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<td>GFP</td>
<td>Dell Optiplex 9020</td>
<td>18</td>
<td>SPAWAR LANT Bldg 4000</td>
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<tr>
<td>CAP</td>
<td>Ranger HRC-U MS w Huber mount, ITAR, UR-TV, NTSC, Sand (P/N G009495)</td>
<td>3</td>
<td>Bldg 2134a</td>
<td>Quantico, VA</td>
<td>Applicable sites as identified in 6.2</td>
<td>1/10/16</td>
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<td>CAP</td>
<td>Ranger HRC-U, ITAR, Color Sand (P/N 614005704/22A)</td>
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<td>Quantico, VA</td>
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<td>CAP</td>
<td>Description</td>
<td>Quantity</td>
<td>Location</td>
<td>Applicable sites</td>
<td>Date</td>
<td>CTR</td>
</tr>
<tr>
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<td>CAP</td>
<td>Ranger HRC-S MS, ITAR, SR-TV, NTSC, Color Sand w/ Huber mount (P/N 614006699/221NNN+)</td>
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<td>As identified in 6.2</td>
<td>1/10/16</td>
<td>CTR</td>
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<td>CAP</td>
<td>System Cable, P/T to JPC, 15 m (P/N 614005292/03)</td>
<td>12</td>
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<td>As identified in 6.2</td>
<td>1/10/16</td>
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<tr>
<td>CAP</td>
<td>Ranger R5 Land Surveillance Radar (P/N 936-0031-01)</td>
<td>15</td>
<td>Bldg 2134a Quantico, VA</td>
<td>As identified in 6.2</td>
<td>1/10/16</td>
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<tr>
<td>CAP</td>
<td>FLIR Radar R2</td>
<td>3</td>
<td>Bldg 2134a Quantico, VA</td>
<td>As identified in 6.2</td>
<td>1/10/16</td>
<td>CTR</td>
</tr>
<tr>
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<td>Ranger R20SS (AFSTaR) Light Version (P/N 963-0041-30-R01)</td>
<td>2</td>
<td>Bldg 2134a Quantico, VA</td>
<td>As identified in 6.2</td>
<td>1/10/16</td>
<td>CTR</td>
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<tr>
<td>CAP</td>
<td>Ranger R20SS (AFSTaR) Light Version (P/N 936-0041-30-00)</td>
<td>2</td>
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<td>As identified in 6.2</td>
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<td>1/10/16</td>
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<td>CAP</td>
<td>Raspberry Pi 2 USB extender</td>
<td>2</td>
<td>Bldg 2134a Quantico, VA</td>
<td>As identified in 6.2</td>
<td>1/10/16</td>
<td>CTR</td>
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<td>CAP</td>
<td>Virtualhere license</td>
<td>2</td>
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<td>As identified in 6.2</td>
<td>1/10/16</td>
<td>CTR</td>
</tr>
<tr>
<td>CAP</td>
<td>Plugable Audio Adaptor</td>
<td>2</td>
<td>Bldg 2134a Quantico, VA</td>
<td>As identified in 6.2</td>
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<td>Meanwell power Supply</td>
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<td>CAP</td>
<td>Cisco Switch, IE2000</td>
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<td>1/10/16</td>
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<td>Axis encoder Q7424-R</td>
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<td>CDRL #</td>
<td>Deliverable Title</td>
<td>TO PWS Reference Para</td>
<td>Frequency</td>
<td>Date Due</td>
<td></td>
<td></td>
</tr>
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<td>-------------------------------------------------------</td>
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<tr>
<td>A001</td>
<td>Program management contract deliverables</td>
<td>6.5.1.1</td>
<td>1 time</td>
<td>45 days after award</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A006</td>
<td>Status Report</td>
<td>6.1.1.1</td>
<td>MTHLY</td>
<td>10th of Each Month</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.0 DELIVERABLES

12.1 CONTRACT DATA REQUIREMENTS LIST (CDRL)

SSC-LANT will use the data deliverables listed below as a metric to evaluate Contractor performance. Failure to provide deliverables as cited in this PWS may result in an unsatisfactory Contractor Performance Annual Review Status (CPARS) rating. It is the Contractor’s responsibility to ensure all electronic submissions of data deliverables can be viewed by the COR.

12.1.1 Administrative CDRL

As required under TO PWS Para 6. #, the following table lists all required administrative data deliverables, Contract Data Requirements Lists (CDRLs), applicable to this task:
The following table lists all required technical data deliverables, Contract Data Requirements Lists (CDRLs), applicable to this task:

<table>
<thead>
<tr>
<th>CDRL #</th>
<th>Deliverable Title</th>
<th>TO PWS Reference Para</th>
<th>Frequency</th>
<th>Date Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>A009</td>
<td>Software Development Plan (SDP)</td>
<td>6.2.1.1</td>
<td>One time with revisions (ONE/R)</td>
<td>NLT 1 week prior to commencement of software activity</td>
</tr>
<tr>
<td>T001</td>
<td>Site Survey Report</td>
<td>6.3.1.1</td>
<td>One time with revisions (ONE/R)</td>
<td>NLT (10) business days after Site Survey completion.</td>
</tr>
<tr>
<td>T002</td>
<td>Interconnecting Wiring Diagram Drawings</td>
<td>6.3.2.1</td>
<td>One time with revisions (ONE/R)</td>
<td>1 week prior to commencement of install</td>
</tr>
</tbody>
</table>

12.2 NON-DATA DELIVERABLES

The following table lists all required non-data deliverables:

<table>
<thead>
<tr>
<th>#</th>
<th>Deliverable Title</th>
<th>TO PWS Reference Para</th>
<th>Frequency</th>
<th>Date Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND-1</td>
<td>Pre-Installation: Provide a fully-demonstrated and operational system(s)</td>
<td>6.3.1</td>
<td>14 Times</td>
<td>ASREQ</td>
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</tbody>
</table>

13.0 SUBCONTRACTING REQUIREMENTS
Subcontracting requirements are in accordance with the basic contract. Note: If a prime contractor plans to utilize subcontractor(s) on this Task Order, the prime must specify in their proposal the intent to utilize subcontractors and list all applicable subcontractor names. Per clause 52.244-2, if a subcontractor is proposed by a prime and is not approved on the basic contract, formal justification is required and subject to government approval.

14.0 ACCEPTANCE PLAN

Inspection and acceptance is performed by the COR on all services, data, and non-data deliverables in accordance with the Quality Assurance Surveillance Plan (QASP), Attachment 1.

15.0 OTHER CONDITIONS/REQUIREMENTS

15.1 Work under this order shall be done during normal working hours when practical. However, due to operational requirements, site schedules, and the availability of required resources and/or downtime of those resources, overtime may be required. Overtime when necessary in the performance of this task order will require COR approval and Contracting Officer Authorization.

15.2 The Contractor shall use the USMC ESS Drawing Standards and previous Installation Design Packages (IDPs) referenced in Paragraph 7.0, for the development, revision, and completion of all versions of the IDP.

15.3 The Contractor shall only procure and install equipment that is listed on the most recent version of the USMC ESS Standard Equipment List (Attachment 002). In situations where there is a need to utilize new equipment that is not listed on the USMC ESS Standard Equipment List or in cases where approved equipment is obsolete or no longer available for purchase, the Contractor shall submit a written request to the SSC LANT COR by the 100% IDP timeframe for permission to procure and install new equipment and to have the equipment added to the USMC ESS Standard Equipment List. All request submissions shall be completed on a USMC ESS Standard Equipment Request Form with the new equipment’s technical documentation attached. Both the USMC ESS Standard Equipment List and the USMC ESS Standard Equipment Request Form will be provided to the Contractor as reference documents by the SSC LANT COR.

16.0 LIST OF ATTACHMENTS

Attachment 001 – Quality Assurance Surveillance Plan (QASP)
Attachment 002– Standard Equipment List (SEL)
Exhibits – DD1423s for Task Order CDRLs
SECTION F Deliverables or Performance

The periods of performance for the following Items are as follows:

3001 9/30/2015 - 9/29/2017

CLIN - DELIVERIES OR PERFORMANCE
SECTION G Contract Administration Data

Norbert Stiepel
norbert.stiepel@navy.mil
(843) 218-3704

CRM-15-01302

The SPAWAR Atlantic Ombudsman is Steven Harnig, (843) 218-4560.

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JUN 2012)

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

Department of Defense Activity Address Code (DoDAAC) is a six position code that uniquely identifies a unit, activity, or organization.

Document type means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

Local processing office (LPO) is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the Central Contractor Registration at https://www.acquisition.gov; and


(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at https://wawf.eb.mil/.

(e) WAWF methods of document submission. Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:
(1) Document type. The Contractor shall use the following document type(s).

COST VOUCHER

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer. N/A

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

Field Name in WAWF Data to be entered in WAWF

Pay Official DoDAAC HQ0338
Issue By DoDAAC N65236
Admin DoDAAC S2404A
Inspect By DoDAAC N65236
Ship To Code N/A
Ship From Code N/A
Mark For Code N/A
Service Approver (DoDAAC) N65236
Service Acceptor (DoDAAC) N65236
Accept at Other DoDAAC N/A
LPO DoDAAC N65236
DCAA Auditor DoDAAC HAA110
Other DoDAAC(s) N/A

(4) Payment request and supporting documentation. The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) WAWF email notifications. The Contractor shall enter the email address identified below in the “Send Additional Email Notifications” field of WAWF once a document is submitted in the system.

norbert.stiepel@navy.mil
(g) WAWF point of contact. (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

(End of clause)

252.204-0002 Line Item Specific: Sequential ACRN Order. (SEP 2009)

The payment office shall make payment in sequential ACRN order within the line item, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: Alpha/Alpha; Alpha/numeric; numeric/alpha; and numeric/numeric.

This effort is Non-Severable IAW the Statement of Non-severability memo dated 6 August 2015.

Accounting Data

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<th>PR Number</th>
<th>Amount</th>
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<td>7195584.34</td>
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LLA:
AA 1731109 6438 310 67854 067443 2D 643800 45015RC36M95
Standard Number: 130049416300002

BASE Funding 7195584.34
Cumulative Funding 7195584.34

MOD 01 Funding 0.00
Cumulative Funding 7195584.34