

**ORDER FOR SUPPLIES OR SERVICES**

|   |                                    |  |           |   |  |   |   |                          |                        |
|---|------------------------------------|--|-----------|---|--|---|---|--------------------------|------------------------|
| 1. CONTRACT/PURCH. ORDER/AGREEMENT NO.<br>HC1047-07-D-0001  |                                    | 2. DELIVERY ORDER/ CALL NO.<br>0982                |           | 3. DATE OF ORDER/CALL (YYYYMMDD)<br>2015 Apr 30   |  | 4. REQ./PURCH. REQUEST NO.<br>DOSMC50081  |   | 5. PRIORITY              |                        |
| 6. ISSUED BY<br>DISA/PL63<br>P.O. BOX 549<br>FORT MEADE MD 20755-0549   |                                    |  |           | 7. ADMINISTERED BY (if other than 6)<br><b>SEE ITEM 6</b>   |  | 8. DELIVERY FOB<br><input checked="" type="checkbox"/> DESTINATION<br><input type="checkbox"/> OTHER<br><br>(See Schedule if other)               |   |                          |                        |
| 9. CONTRACTOR<br>EXELIS INC.<br>NAME ANNE HASSELBRACK<br>AND 12975 WORLDGATE DR STE 700<br>ADDRESS HERNDON VA 20170-6008  |                                    |  |           | 10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD)<br><b>SEE SCHEDULE</b>  |  | 11. MARK IF BUSINESS IS<br><input type="checkbox"/> SMALL<br><input type="checkbox"/> SMALL DISADVANTAGED<br><input type="checkbox"/> WOMEN-OWNED |   |                          |                        |
|   |                                    |  |           | 12. DISCOUNT TERMS<br>Net 30 Days   |  | 13. MAIL INVOICES TO THE ADDRESS IN BLOCK<br>See item 15  |   |                          |                        |
| 14. SHIP TO<br>POINT SPECTRIUM CENTER<br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064   |                                    |  |           | 15. PAYMENT WILL BE MADE BY<br>DFAS-CO/JAQ<br>ATTN: CAPSW/ORP2<br>P.O. BOX 369016<br>COLUMBUS OH 43236-9016   |  | MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.   |   |                          |                        |
| 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 _____<br>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 type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies: _____  |                                    |  |           |   |  |   |   |                          |                        |
| 17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE<br><b>See Schedule</b>   |                                    |  |           |   |  |   |   |                          |                        |
| 18. ITEM NO.  | 19. SCHEDULE OF SUPPLIES/ SERVICES |  |           |   | 20. QUANTITY ORDERED/ ACCEPTED*  | 21. UNIT  | 22. UNIT PRICE  | 23. AMOUNT               |                        |
|   | <b>SEE SCHEDULE</b>                |  |           |   |  |   |   |                          |                        |
| * 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<br><b>B6</b>  |   |   | 25. TOTAL<br>\$28,929.00 | 26. DIFFERENCES        |
| 27a. QUANTITY IN COLUMN 20 HAS BEEN<br><input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED   |                                    |  |           |   |  |   |   |                          |                        |
| b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE  |                                    |  |           |   | c. DATE (YYYYMMDD)   |   | d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE |                          |                        |
| e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE  |                                    |  |           |   | 28. SHIP NO.   | 29. DO VOUCHER NO.  | 30. INITIALS  |                          |                        |
| f. TELEPHONE NUMBER   |                                    | g. E-MAIL ADDRESS                                  |           |   | <input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL   | 32. PAID BY   | 33. AMOUNT VERIFIED CORRECT FOR                                   |                          |                        |
| 36. I certify this account is correct and proper for payment.   |                                    |  |           |   | 31. PAYMENT<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL |   |   | 34. CHECK NUMBER         |                        |
| a. DATE (YYYYMMDD)  |                                    | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER       |           |   | 35. BILL OF LADING NO.   |   |   |                          |                        |
| 37. RECEIVED AT   |                                    | 38. RECEIVED BY                                    |           | 39. DATE RECEIVED (YYYYMMDD)  | 40. TOTAL CONTAINERS   | 41. S/R ACCOUNT NO.   | 42. S/R VOUCHER NO.   |                          |                        |

Section B - Supplies or Services and Prices

| ITEM NO                     | SUPPLIES/SERVICES                          | MAX QUANTITY | UNIT | UNIT PRICE  | MAX AMOUNT  |
|-----------------------------|--|--------------|------|-------------|-------------|
| 0013<br>EXERCISED<br>OPTION | Electromagnetic Engineering Support<br>FFP | 1            | Lot  | \$28,929.00 | \$28,929.00 |

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3786). The contractor's proposal titled "Sprint Nextel on Fort Hood E3 Analysis Support" dated 27 October 2014 is incorporated by reference.

Period of Performance: May 01 2015 through January 31 2016  
 FOB: Destination  
 PURCHASE REQUEST NUMBER: DOSMC50081

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|                |             |
|----------------|-------------|
| MAX<br>NET AMT | \$28,929.00 |
|----------------|-------------|

|                                |             |
|--------------------------------|-------------|
| ACRN AA<br>CIN: DOSMC500810013 | \$28,929.00 |
|--------------------------------|-------------|

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT (PWS)  
SPONSOR PROGRAM  
As of 8 Oct 2014

|                      |                  |
|----------------------|------------------|
| Contract Number:     | HC1047-07-D-0001 |
| JSC Tracking Number: | T3786            |
| Task Order Number:   | 0982             |

|  |  |   |
|--|--|---|
| Type of Task Order   | <input type="checkbox"/> Cost Plus Incentive Fee             | (Check one box)<br>(Double click on a box to check it.) |
|  | <input checked="" type="checkbox"/> Firm Fixed Price         |   |
| Key Words  | Sprint Nextel, Fort Hood, E3 Analysis, RADHAZ, SMR, LTE, MSP |   |
| SPONSOR  |  |   |
| Sprint Nextel<br>11044 Research Blvd., C-300<br>Austin, TX 78759 |  |   |

1. Contracting Officer's Representative (COR).

a. Primary COR.

|   |   |
|---|---|
| Name:   | <i>B6</i>                                       |
| Organization:   | Joint Spectrum Center (JSC)/J8                  |
| Department of Defense Activity Address Code (DODAAC): | H98294  |
| Address:  | 2004 Turbot Landing<br>Annapolis, MD 21012-5064 |
| Phone Number:   | <i>B6</i>                                       |
| Fax Number:   | (410) 293-9268                                  |
| E-Mail Address:                                       | <i>B6</i>                                       |

b. Alternate COR.

|                 |   |
|-----------------|---|
| Name:           | <i>B6</i>                                       |
| Organization:   | Joint Spectrum Center (JSC)/J8                  |
| DODAAC:         | H98294  |
| Address:        | 2004 Turbot Landing<br>Annapolis, MD 21012-5064 |
| Phone Number:   | <i>B6</i>                                       |
| Fax Number:     | (410) 293-9268                                  |
| E-Mail Address: | <i>B6</i>                                       |

2. Task Order (TO) Title. Sprint Nextel on Fort Hood E3 Analysis Support

3. Background. The Telecommunications Act of 1996 directed the heads of all Federal Government departments and agencies to facilitate access by mobile service providers (MSPs) to Federal property for the purpose of siting equipment and mobile service antennas (MSAs). In response, the Department of Defense (DoD) Chief Information

Officer (CIO) [formerly the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence (ASD C3I)] issued a policy memorandum regarding placement of commercial antennas on DoD property.<sup>1</sup>

The DoD CIO policy memorandum requires that Commanders and/or Agency Directors coordinate requests for the placement of new telecommunications services on Federal property with the DoD Joint Spectrum Center (JSC), and that the JSC evaluate the proposed antenna siting/telecommunication service for potential electromagnetic interference to the existing or planned telecommunications operations of the affected government facility. The memorandum further states that the requestor will reimburse the JSC for the cost of the evaluation.

Sprint Nextel, hereafter referred to as the purchaser, has requested permission to install and operate a Specialized Mobile Radio (SMR) and a Long Term Evolution (LTE) systems on two sites at Fort Hood, TX.

4. Objectives. The objectives of this effort are to:

- Determine the potential for electromagnetic interference (EMI) from the proposed system transmitters to existing and planned military, government, and commercial communications-electronics (C-E) systems.
- Determine the potential for electromagnetic radiation hazards (RADHAZ) from the proposed system transmitters to personnel, fuel, and ordnance with electrically initiated devices (EIDs).

5. Scope. This PWS addresses tasking to be performed by the Electromagnetic Spectrum Engineering Services (ESES) contractor in the area of:

Electromagnetic Environmental Effects (E3) and Spectrum Engineering – coordinating electromagnetic compatibility (EMC) standards; analyzing equipment and systems for potential E3 problems and recommending solutions; performing radio frequency (RF) measurements; developing and conducting E3 training; assisting the acquisition community by assessing E3; determining operational frequency bands; and providing assistance in acquiring host nation approval for equipment operation.

6. Performance Requirements. The contractor shall provide E3 and RADHAZ analyses of the proposed installation. The results of the analysis will be documented in a memorandum followed by a Consulting Report (CR).

6.1 Task 1 – E3 Analysis.

Preliminary information from the purchaser will be used to conduct a search of military, government, and commercial frequency assignment databases to identify systems operating on government facilities in the vicinity of the site of interest. The electromagnetic environment (EME) will be compiled from the Frequency Resource Record System (FRRS), the Government Master File (GMF), and the Federal Communications Commission (FCC) frequency assignment databases at the JSC. For the analysis of linear EMI effects, the EME will include FRRS and GMF assignments for systems within 75 miles of the proposed site in co-channel or adjacent-channel frequency bands (within  $\pm 10$  MHz of the SMR and LTE base station transmit frequency bands) and assignments for systems within 30 miles, operating in second and third harmonically related frequency bands. FCC assignments for systems within 10 miles operating in co channel, adjacent-channel, or second and third harmonically related frequency bands, will also be identified. The 75 mile radius will be used to include C-E equipment at other DoD and government facilities that could possibly receive signals from the proposed commercial transmitters.

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<sup>1</sup> Anthony M. Valletta, DoD CIO (formerly OASD (C3I)) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: DoD CIO (formerly ASD (C3I)), 15 December 1997.

For the analysis of non-linear EMI effects (intermodulation), the cosite EME will include FRRS, GMF, and FCC frequency assignments between 300 MHz and 30 GHz for systems within a two mile radius of the proposed site. The two mile radius is a conservative boundary for the analysis of non-linear EMI effects.

A site survey will not be required. Coordination will be conducted with the purchaser, US Government Spectrum Management, and Base Safety personnel at the proposed site. Proposed system information will be verified with the purchaser. Environmental frequency assignment data will be reviewed and validated with the installation spectrum manager. Any data for frequency assignments not listed in the FRRS, GMF, or FCC databases will be used to augment the project EME.

The augmented frequency assignment data, along with the system characteristics of the introduced commercial telecommunications equipment, will be used to perform the EMI analysis. EMI analysis techniques will be used to determine the potential for inband, adjacent band, harmonically related, and intermodulation interference. These techniques are designed to eliminate from further consideration those systems for which interference is not predicted using conservative analysis parameters.

For systems not eliminated in the conservative analysis, the ESES Contractor will conduct additional, more-detailed, analyses using additional JSC environmental analysis techniques. These techniques predict the effective on-tune received power levels considering the effects of transmitter power levels, harmonic levels, additional filtering provided by duplexers, etc., in the transmit path, transmitter antenna gain (in the direction of the victim receiver), receiver antenna gain (in the direction of the interfering transmitter), and receiver signal-filtering loss (frequency-dependent rejection).

The interference thresholds used in the EMI analysis will be based on interference-to-noise ratios (I/N) required for compatible operation as dictated by the specific modulation types involved in the interference interactions.

Deliverables: Results Memorandum followed by a CR

#### 6.2 Task 2 – RADHAZ Analysis.

Upon verification of the characteristics data of the proposed commercial telecommunications system, an analysis will be performed using applicable DoD thresholds to determine distance separation requirements to avoid the potential for RADHAZ to personnel, fuel, and ordnance using EIDs.

Deliverables: To be delivered in the Task 1 Results Memorandum and CR

7. Performance Standards. Not Applicable.

8. Incentives. Not Applicable.

9. Place of Performance. The primary efforts associated with this TO PWS shall be performed at the government and the ESES Contractor facility. A site survey will not be performed as described in item 6.1.

Alternate Place of Performance - Contingency Only. As determined by the COR, contractor employees may be required to work at an alternate place of performance (e.g., home, the contractor's facility, or another approved activity within the local travel area) in cases of unforeseen conditions or contingencies (e.g., pandemic conditions, exercises, government closure due to inclement weather, etc.). Non-emergency/non-essential contractors should not

report to a closed government facility. Contractor shall prepare all deliverables and other contract documentation utilizing contractor resources. To the extent possible, the contractor shall use best efforts to provide the same level of support as stated in the PWS. In the event the services are impacted, reduced, compromised, etc., the Contracting Officer or the contractor may request an equitable adjustment pursuant to the Changes clause of the contract.

10. Period of Performance. 240 calendar days after contract award.

11. Delivery Schedule.

| Schedule of Deliverables |   |
|--------------------------|---|
| Title                    | Schedule  |
| Results Memorandum       | 10 Weeks after TO Award                             |
| Consulting Report        | 4 weeks after the Results Memorandum is distributed |

12. Security. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETARY, FOR OFFICIAL USE ONLY, CONFIDENTIAL, and SECRET. A SECRET clearance will be required to perform daily duties. Periodic meetings will be held where individuals are often required to share data and gather information in a classified environment. Individuals must be able to obtain and maintain a SECRET Clearance.

13. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI). Historical project files and reports will be provided. Site and system characteristics information for the installation proposed by the purchaser will be provided.

14. Other Pertinent Information or Special Considerations.

a. Identification of Possible Follow-on Work. Not applicable.

b. Identification of Potential Conflicts of Interest (COI). The ESES contractor shall identify any possible organizational conflict of interest (OCI) as defined in Subpart 9.5 of the Federal Acquisition Regulation. If there is an OCI, the ESES contractor must inform the COR and provide an OCI Mitigation Plan that identifies how the OCI is to be mitigated.

c. Identification of Non-Disclosure Requirements. Not applicable.

d. Packaging, Packing and Shipping Instructions. Not Applicable, provided in the base contract.

e. Inspection and Acceptance Criteria. Not Applicable, provided in the base contract.

f. Property Accountability. Not applicable.

15. Section 508 Accessibility Standards. Not applicable.

16. External Support. None.

17. Pricing Information. Information is obtained from Price List for MSP Support.

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  |
|------|-------------|------------|-------------|------------|
| 0013 | Destination | Government | Destination | Government |

Section F - Deliveries or Performance

DELIVERY INFORMATION

| CLIN | DELIVERY DATE                     | QUANTITY | SHIP TO ADDRESS  | UIC    |
|------|-----------------------------------|----------|--|--------|
| 0013 | POP 01-MAY-2015 TO<br>31-JAN-2016 | N/A      | DISA JOINT SPECTRUM CENTER<br><i>BC</i><br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064<br><i>EC</i><br>FOB: Destination | H98294 |



Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 255020 DOSMC50081  
AMOUNT: \$28,929.00  
CIN DOSMC500810013: \$28,929.00

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: *BC*  
Organization/Office Symbol: PL63  
Phone No.: *BC*  
E-Mail Address *BC*

Contract Specialist

Name: *BC*  
Organization/Office Symbol: PL63  
Phone No.: *BC*  
E-Mail Address: *BC*

Customer/COR/TM Point of Contact

Name: *BC*  
Organization/Office Symbol: DISA/Defense Spectrum Organization (DSO) JSC/J8  
Phone No.: *BC*  
E-Mail Address *BC*

Contractor Point of Contact

Contractor Legal Business Name: ITT  
DUNS: 083655498  
CAGE CODE: 9M715

Contractor POC:

Anne Hasselbrack  
E-Mail Address: anne.hasselbrack@exelisinc.com  
Phone Number: 301.867.2985

Technical POC:

Michael Hayes  
E-mail: Michael.hayes@exelisinc.com  
Phone Number: 301.867.2956

(End of clause)

## Section I - Contract Clauses

## CLAUSES INCORPORATED BY FULL TEXT

## 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

## (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 System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(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).  
Invoice.

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.  
Not applicable.

(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       | HQ0131                     |
| Issue By DoDAAC           | HC1047                     |
| Admin DoDAAC              | HC1047                     |
| Inspect By DoDAAC         | H98294                     |
| Ship To Code              | H98294                     |
| Ship From Code            | _____                      |
| Mark For Code             | _____                      |
| Service Approver (DoDAAC) | H98294                     |
| Service Acceptor (DoDAAC) | H98294                     |
| Accept at Other DoDAAC    | _____                      |
| LPO DoDAAC                | _____                      |
| DCAA Auditor DoDAAC       | _____                      |
| Other DoDAAC(s)           | _____                      |

(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.

Name: \_\_\_\_\_  
 E-mail:       BG      

(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.

**ORDER FOR SUPPLIES OR SERVICES**

|   |  |  |           |   |  |   |   |   |                                 |
|---|--|--|-----------|---|--|---|---|---|---------------------------------|
| 1. CONTRACT/PURCH. ORDER/ AGREEMENT NO.<br>HC1047-07-D-0001   |  | 2. DELIVERY ORDER/ CALL NO.<br>0983                |           | 3. DATE OF ORDER/CALL (YYYYMMDD)<br>2015 Apr 30   |  | 4. REQ/PURCH. REQUEST NO.<br>DOSMC50088   |   | 5. PRIORITY   |                                 |
| 6. ISSUED BY<br>DISA/PL63<br>P.O. BOX 549<br>FORT MEADE MD 20755-0549   |  |  |           | CODE HC1047   |  | 7. ADMINISTERED BY (if other than 6) CODE   |   |   |                                 |
| <b>SEE ITEM 6</b>   |  |  |           |   |  | 8. DELIVERY FOB<br><input checked="" type="checkbox"/> DESTINATION<br><input type="checkbox"/> OTHER<br><br>(See Schedule if other) |   |   |                                 |
| 9. CONTRACTOR<br>EXELIS INC.<br>NAME ANNE HASSELBRACK<br>AND 12975 WORLDGATE DR STE 700<br>ADDRESS HERNDON VA 20170-6008  |  |  |           | CODE 9M715  |  | FACILITY  |   | 10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD)<br><b>SEE SCHEDULE</b>  |                                 |
|   |  |  |           |   |  | 12. DISCOUNT TERMS<br>Net 30 Days   |   | 11. MARK IF BUSINESS IS<br><input type="checkbox"/> SMALL<br><input type="checkbox"/> SMALL DISADVANTAGED<br><input type="checkbox"/> WOMEN-OWNED |                                 |
|   |  |  |           |   |  | 13. MAIL INVOICES TO THE ADDRESS IN BLOCK<br>See Item 15  |   |   |                                 |
| 14. SHIP TO<br>DISA JMWTC CENTER<br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064  |  |  |           | CODE H98294   |  | 15. PAYMENT WILL BE MADE BY CODE HQ0131<br>DFAS-CO/JAQ<br>ATTN: CAPSW/ORP2<br>P.O. BOX 369016<br>COLUMBUS OH 43236-9016             |   |   |                                 |
|   |  |  |           |   |  | <b>MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.</b>  |   |   |                                 |
| 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<br>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 type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:  |  |  |           |   |  |   |   |   |                                 |
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| * 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<br><br>B6  |   | 25. TOTAL<br>\$28,729.00  | 26. DIFFERENCES                 |
| 27a. QUANTITY IN COLUMN 20 HAS BEEN<br><input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED   |  |  |           |   |  |   |   |   |                                 |
| b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE  |  |  |           |   | c. DATE (YYYYMMDD)   |   | d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE |   |                                 |
| e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE  |  |  |           |   | 28. SHIP NO.   |   | 29. DO VOUCHER NO.  | 30. INITIALS  |                                 |
| f. TELEPHONE NUMBER   |  | g. E-MAIL ADDRESS                                  |           |   | <input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL   |   | 32. PAID BY   |   | 33. AMOUNT VERIFIED CORRECT FOR |
| 36. I certify this account is correct and proper for payment.   |  |  |           |   |  |   |   |   |                                 |
| a. DATE (YYYYMMDD)  |  | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER       |           |   |  |   |   |   |                                 |
|   |  |  |           |   | 31. PAYMENT<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL |   | 34. CHECK NUMBER  |   |                                 |
|   |  |  |           |   | 35. BILL OF LADING NO.   |   |   |   |                                 |
| 37. RECEIVED AT   |  | 38. RECEIVED BY                                    |           | 39. DATE RECEIVED (YYYYMMDD)  |  | 40. TOTAL CONTAINERS  |   | 41. S/R ACCOUNT NO.   | 42. S/R VOUCHER NO.             |

Section B - Supplies or Services and Prices

| ITEM NO                     | SUPPLIES/SERVICES                          | MAX QUANTITY | UNIT | UNIT PRICE  | MAX AMOUNT  |
|-----------------------------|--|--------------|------|-------------|-------------|
| 0013<br>EXERCISED<br>OPTION | Engineering Electromagnetic Support<br>FFP | 1            | Lot  | \$28,729.00 | \$28,729.00 |

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3802). The contractor's proposal titled "AT&T Mobility on Fort Leonard Wood E3 Analysis Support" dated 24 November 2014 is incorporated by reference.

Period of Performance: May 01 2015 through January 31 2016  
 FOB: Destination  
 PURCHASE REQUEST NUMBER: DOSMC50088

---

|                |             |
|----------------|-------------|
| MAX<br>NET AMT | \$28,729.00 |
|----------------|-------------|

|                                |             |
|--------------------------------|-------------|
| ACRN AA<br>CIN: DOSMC500880013 | \$28,729.00 |
|--------------------------------|-------------|

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT (PWS)  
SPONSOR PROGRAM  
As of 10 Nov 2014

|                      |                  |
|----------------------|------------------|
| Contract Number:     | HC1047-07-D-0001 |
| JSC Tracking Number: | T3802            |
| Task Order Number:   | 0983             |

|  |  |   |
|--|--|---|
| Type of Task Order   | <input type="checkbox"/> Cost Plus Incentive Fee<br><input checked="" type="checkbox"/> Firm Fixed Price | (Check one box)<br>(Double click on a box to check it.) |
| Key Words  | AT&T Mobility, Fort Leonard Wood, E3 Analysis, RADHAZ, AWS, WCS, LTE, MSP                                |   |
| SPONSOR  |  |   |
| AT&T Mobility<br>13075 Manchester Road, STE 100<br>St. Louis, MO 63131 |  |   |

1. Contracting Officer's Representative (COR).

a. Primary COR.

|   |   |
|---|---|
| Name:   | <i>BC</i>                                       |
| Organization:   | Joint Spectrum Center (JSC)/OS351               |
| Department of Defense Activity Address Code (DODAAC): | H98294  |
| Address:  | 2004 Turbot Landing<br>Annapolis, MD 21012-5064 |
| Phone Number:   | <i>BC</i>                                       |
| Fax Number:   | (410) 293-9268                                  |
| E-Mail Address:                                       | <i>BC</i>                                       |

b. Alternate COR.

|                 |   |
|-----------------|---|
| Name:           | <i>BC</i>                                       |
| Organization:   | JSC/OS351                                       |
| DODAAC:         | H98294  |
| Address:        | 2004 Turbot Landing<br>Annapolis, MD 21012-5064 |
| Phone Number:   | <i>BC</i>                                       |
| Fax Number:     | (410) 293-9268                                  |
| E-Mail Address: | <i>BC</i>                                       |

2. Task Order (TO) Title. AT&T Mobility on Fort Leonard Wood E3 Analysis Support

3. Background. The Telecommunications Act of 1996 directed the heads of all Federal Government departments and agencies to facilitate access by mobile service providers (MSPs) to Federal property for the purpose of siting equipment and mobile service antennas (MSAs). In response, the Department of Defense (DoD) Chief Information

Officer (CIO) [formerly the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence (ASD C3I)] issued a policy memorandum regarding placement of commercial antennas on DoD property.<sup>1</sup>

The DoD CIO policy memorandum requires that Commanders and/or Agency Directors coordinate requests for the placement of new telecommunications services on Federal property with the DoD Joint Spectrum Center (JSC), and that the JSC evaluate the proposed antenna siting/telecommunication service for potential electromagnetic interference to the existing or planned telecommunications operations of the affected government facility. The memorandum further states that the requestor will reimburse the JSC for the cost of the evaluation.

AT&T Mobility, hereafter referred to as the purchaser, has requested permission to install and operate an Advanced Wireless Services (AWS) system, a Wireless Communications Service (WCS) system, and a Long Term Evolution (LTE) system on Fort Leonard Wood, MO.

4. Objectives. The objectives of this effort are to:

- Determine the potential for electromagnetic interference (EMI) from the proposed system transmitters to existing and planned military, government, and commercial communications-electronics (C-E) systems.
- Determine the potential for electromagnetic radiation hazards (RADHAZ) from the proposed system transmitters to personnel, fuel, and ordnance with electrically initiated devices (EIDs).

5. Scope. This PWS addresses tasking to be performed by the Electromagnetic Spectrum Engineering Services (ESES) contractor in the area of:

Electromagnetic Environmental Effects (E3) and Spectrum Engineering – coordinating electromagnetic compatibility (EMC) standards; analyzing equipment and systems for potential E3 problems and recommending solutions; performing radio frequency (RF) measurements; developing and conducting E3 training; assisting the acquisition community by assessing E3; determining operational frequency bands; and providing assistance in acquiring host nation approval for equipment operation.

6. Performance Requirements. The contractor shall provide an electromagnetic environmental effects (E3) and RADHAZ analysis of the proposed installation. The results of the analysis will be documented in a memorandum followed by a Consulting Report (CR).

6.1 Task 1 – E3 Analysis.

Preliminary information from the sponsor will be used to conduct a search of military, government, and commercial frequency assignment databases to identify systems operating on government facilities in the vicinity of the site of interest. The electromagnetic environment (EME) will be compiled from the Frequency Resource Record System (FRRS), the Government Master File (GMF), and the Federal Communications Commission (FCC) frequency assignment databases at the JSC. For the analysis of linear EMI effects, the EME will include FRRS and GMF assignments for systems within 75 miles of the proposed site in co-channel or adjacent-channel frequency bands (within  $\pm 10$  MHz of the AWS, WCS, and LTE base station transmit frequency bands) and assignments for systems within 30 miles, operating in second and third harmonically related frequency bands. FCC assignments for systems within 10 miles operating in co channel, adjacent-channel, or second and third harmonically related frequency bands, will also be identified. The 75 mile radius will be used to include C-E equipment at other DoD and government facilities that could possibly receive signals from the proposed commercial transmitters.

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<sup>1</sup> Anthony M. Valletta, DoD CIO (formerly OASD (C3I)) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: DoD CIO (formerly ASD (C3I)), 15 December 1997.

For the analysis of non-linear EMI effects (intermodulation), the cosite EME will include FRRS, GMF, and FCC frequency assignments between 300 MHz and 30 GHz for systems within a two mile radius of the proposed site. The two mile radius is a conservative boundary for the analysis of non-linear EMI effects.

A site survey will not be required. Coordination will be conducted with the purchaser, US Government Spectrum Management, and Base Safety personnel at the proposed site. Proposed system information will be verified with the sponsor. Environmental frequency assignment data will be reviewed and validated with the installation spectrum manager. Any data for frequency assignments not listed in the FRRS, GMF, or FCC databases will be used to augment the project EME.

The augmented frequency assignment data, along with the system characteristics of the introduced commercial telecommunications equipment, will be used to perform the EMI analysis. EMI analysis techniques will be used to determine the potential for inband, adjacent band, harmonically related, and intermodulation interference. These techniques are designed to eliminate from further consideration those systems for which interference is not predicted using conservative analysis parameters.

For systems not eliminated in the conservative analysis, the Electromagnetic Spectrum Engineering Services (ESES) Contractor will conduct additional, more-detailed, analyses using additional JSC environmental analysis techniques. These techniques predict the effective on-tune received power levels considering the effects of transmitter power levels, harmonic levels, additional filtering provided by duplexers, etc., in the transmit path, transmitter antenna gain (in the direction of the victim receiver), receiver antenna gain (in the direction of the interfering transmitter), and receiver signal-filtering loss (frequency-dependent rejection).

The interference thresholds used in the EMI analysis will be based on interference-to-noise ratios (I/N) required for compatible operation as dictated by the specific modulation types involved in the interference interactions.

Deliverables: Results Memorandum followed by a CR

#### 6.2 Task 2 – RADHAZ Analysis.

Upon verification of the characteristics data of the proposed commercial telecommunications system, an analysis will be performed using applicable DoD thresholds to determine distance separation requirements to avoid the potential for RADHAZ to personnel, fuel, and ordnance using EIDs.

Deliverables: To be delivered in the Task 1 Results Memorandum and CR

7. Performance Standards. Not Applicable.

8. Incentives. Not Applicable.

9. Place of Performance. The primary efforts associated with this TO PWS shall be performed at the government and the ESES Contractor facility. A site survey will not be performed as described in item 6.1.

Alternate Place of Performance - Contingency Only. As determined by the COR, contractor employees may be required to work at an alternate place of performance (e.g., home, the contractor's facility, or another approved activity within the local travel area) in cases of unforeseen conditions or contingencies (e.g., pandemic conditions,



exercises, government closure due to inclement weather, etc.). Non-emergency/non-essential contractors should not report to a closed government facility. Contractor shall prepare all deliverables and other contract documentation utilizing contractor resources. To the extent possible, the contractor shall use best efforts to provide the same level of support as stated in the PWS. In the event the services are impacted, reduced, compromised, etc., the Contracting Officer or the contractor may request an equitable adjustment pursuant to the Changes clause of the contract.

10. Period of Performance. May 01 2015 through January 31 2016.

11. Delivery Schedule.

| Schedule of Deliverables |   |
|--------------------------|---|
| Title                    | Schedule of Deliverables                            |
| Results Memorandum       | 10 Weeks after TO Award                             |
| Consulting Reports       | 4 weeks after the Results Memorandum is distributed |

12. Security. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETARY, FOR OFFICIAL USE ONLY, CONFIDENTIAL, and SECRET. A SECRET clearance will be required to perform daily duties. Periodic meetings will be held where individuals are often required to share data and gather information in a classified environment. Individuals must be able to obtain and maintain a SECRET Clearance.

13. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI). Historical project files and reports will be provided. Site and system characteristics information for the installation proposed by the purchaser will be provided.

14. Other Pertinent Information or Special Considerations.

a. Identification of Possible Follow-on Work. Not applicable.

b. Identification of Potential Conflicts of Interest (COI). The ESES contractor shall identify any possible organizational conflict of interest (OCI) as defined in Subpart 9.5 of the Federal Acquisition Regulation. If there is an OCI, the ESES contractor must inform the COR and provide an OCI Mitigation Plan that identifies how the OCI is to be mitigated.

c. Identification of Non-Disclosure Requirements. Not applicable.

d. Packaging, Packing and Shipping Instructions. Not Applicable, provided in the base contract.

e. Inspection and Acceptance Criteria. Not Applicable, provided in the base contract.

f. Property Accountability. Not applicable.

15. Section 508 Accessibility Standards. Not applicable.

16. External Support. None.

17. Pricing Information. Information is obtained from Price List for MSP Support.

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 255020 DOSMC50088  
AMOUNT: \$28,729.00  
CIN DOSMC500880013: \$28,729.00

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: *BC*  
Organization/Office Symbol: PL63  
Phone No.: *BC*  
E-Mail Address: *BC*

Contract Specialist

Name: *BC*  
Organization/Office Symbol: PL63  
Phone No. *BC*  
E-Mail Address: *BC*

Customer/COR/TM Point of Contact

Name: *BC*  
Organization/Office Symbol: DISA/Defense Spectrum Organization (DSO) JSC/J8  
Phone No.: *BC*  
E-Mail Address: *BC*

Contractor Point of Contact

Contractor Legal Business Name: ITT  
DUNS: 083655498  
CAGE CODE: 9M715

Contractor POC:

Anne Hasselbrack  
E-Mail Address: [anne.hasselbrack@exelisinc.com](mailto:anne.hasselbrack@exelisinc.com)  
Phone Number: 301.867.2985

Technical POC:

Michael Hayes  
E-mail: [Michael.hayes@exelisinc.com](mailto:Michael.hayes@exelisinc.com)  
Phone Number: 301.867.2956

(End of clause)

Section I - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

(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 System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(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).  
Invoice.

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.  
Not applicable.

(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       | HQ0131                     |
| Issue By DoDAAC           | HC1047                     |
| Admin DoDAAC              | HC1047                     |
| Inspect By DoDAAC         | H98294                     |
| Ship To Code              | H98294                     |
| Ship From Code            | _____                      |
| Mark For Code             | _____                      |
| Service Approver (DoDAAC) | H98294                     |
| Service Acceptor (DoDAAC) | H98294                     |
| Accept at Other DoDAAC    | _____                      |
| LPO DoDAAC                | _____                      |
| DCAA Auditor DoDAAC       | _____                      |
| Other DoDAAC(s)           | _____                      |

(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.

Name: \_\_\_\_\_  
 E-mail: *BC*

(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.

**ORDER FOR SUPPLIES OR SERVICES**

|   |   |  |  |                                     |  |   |                    |   |                                 |   |  |
|---|---|--|--|-------------------------------------|--|---|--------------------|---|---------------------------------|---|--|
| 1. CONTRACT/PURCH ORDER/AGREEMENT NO.<br>HC1047-07-D-0001   |   |  |  | 2. DELIVERY ORDER/ CALL NO.<br>0984 |  | 3. DATE OF ORDER/CALL<br>(YYYYMMDD)<br>2015 Apr 02  |                    | 4. REQ / PURCH REQUEST NO.<br>DOSMC50084                          |                                 | 5. PRIORITY   |  |
| 6. ISSUED BY<br>DISA/PLG3<br>P O BOX 549<br>FORT MEADE MD 20755-0549  |   |  |  | CODE: HC1047                        |  | 7. ADMINISTERED BY (if other than 6) CODE   |                    |   |                                 | 8. DELIVERY FOB<br><input checked="" type="checkbox"/> DESTINATION<br><input type="checkbox"/> OTHER<br><br>(See Schedule if other)               |  |
| 9. CONTRACTOR<br><br>NAME EXELIS INC<br>AND ANNE HASSELBRACK<br>ADDRESS 12975 WORLDGATE DR STE 700<br>HERNDON VA 20170-6008   |   |  |  | CODE: 9M715                         |  | FACILITY  |                    | 10. DELIVER TO FOB POINT BY (Date)<br>(YYYYMMDD)<br>SEE SCHEDULE  |                                 | 11. MARK IF BUSINESS IS<br><input type="checkbox"/> SMALL<br><input type="checkbox"/> SMALL DISADVANTAGED<br><input type="checkbox"/> WOMEN-OWNED |  |
|   |   |  |  |                                     |  |   |                    | 12. DISCOUNT TERMS  |                                 | 13. MAIL INVOICES TO THE ADDRESS IN BLOCK<br>See Item 15  |  |
| 14. SHIP TO<br>INCA JOINT SPECIUM CENTER<br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064  |   |  |  | CODE: H98294                        |  | 15. PAYMENT WILL BE MADE BY CODE: HQ0131<br>DFAS CONJAO<br>ATTN: CAPSW/WRP2<br>P O BOX 309016<br>COLUMBUS OH 43236-9016 |                    |   |                                 | MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.   |  |
| 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<br>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 type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:  |   |  |  |                                     |  |   |                    |   |                                 |   |  |
| 17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE<br><br>See Schedule  |   |  |  |                                     |  |   |                    |   |                                 |   |  |
| 18. ITEM NO.  | 19. SCHEDULE OF SUPPLIES/ SERVICES  |  |  |                                     |  | 20. QUANTITY ORDERED/ ACCEPTED*   | 21. UNIT           | 22. UNIT PRICE  |                                 | 23. AMOUNT  |  |
|   | SEE SCHEDULE  |  |  |                                     |  |   |                    |   |                                 |   |  |
|   | 24. UNITED STATES OF AMERICA  |  |  |                                     |  |   |                    |   |                                 | 25. TOTAL \$20,243.00   |  |
|   | * If quantity accepted by the Government is same as quantity ordered, initialed by X. If different, enter actual quantity accepted below quantity ordered and encircle. |  |  |                                     |  | 86  |                    |   |                                 | 26. DIFFERENCES   |  |
| 27a. QUANTITY IN COLUMN 20 HAS BEEN<br><input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED   |   |  |  |                                     |  |   |                    |   |                                 |   |  |
| b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE  |   |  |  |                                     |  | c. DATE (YYYYMMDD)  |                    | d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE |                                 |   |  |
| e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE  |   |  |  |                                     |  | 28. SHIP NO.  | 29. DO VOUCHER NO. |   | 30. INITIALS                    |   |  |
| f. TELEPHONE NUMBER   |   |  | g. E-MAIL ADDRESS  |                                     |  | <input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL  | 32. PAID BY        |   | 33. AMOUNT VERIFIED CORRECT FOR |   |  |
| 36. I certify this account is correct and proper for payment.   |   |  |  |                                     |  | 31. PAYMENT<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL  |                    |   | 34. CHECK NUMBER                |   |  |
| a. DATE (YYYYMMDD)  |   | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER |  |                                     |  |   |                    |   | 35. BILL OF LADING NO.          |   |  |
| 37. RECEIVED AT   |   | 38. RECEIVED BY                              |  | 39. DATE RECEIVED (YYYYMMDD)        |  | 40. TOTAL CONTAINERS  |                    | 41. S/R ACCOUNT NO  |                                 | 42. S/R VOUCHER NO.   |  |

Section B - Supplies or Services and Prices

| ITEM NO             | SUPPLIES/SERVICES  | QUANTITY | UNIT | UNIT PRICE  | AMOUNT      |
|---------------------|--|----------|------|-------------|-------------|
| 0013                |  | 1        | Each | \$20,948.00 | \$20,948.00 |
| EXERCISED<br>OPTION | <p>Option Year 6 - FFP Engineering<br/>                     FFP<br/>                     Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3792). The contractor's proposal titled "Verizon Wireless on Fort Rucker E3 Analysis Support" dated 3 December 2014 is incorporated by reference.</p> <p>Period of Performance: April 01 2015 through November 30 2015</p> <p>FOB: Destination<br/>                     PURCHASE REQUEST NUMBER: DOSMC50084</p> |          |      |             |             |
|                     |  |          |      | NET AMT     | \$20,948.00 |
|                     | ACRN AA<br>CIN: DOSMC500840013   |          |      |             | \$20,948.00 |

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT

**PERFORMANCE WORK STATEMENT (PWS)  
SPONSOR PROGRAM  
as of 20/Oct/2014**

**1. Contracting Officer's Representative (COR).**

**a. Primary COR.**

|   |   |
|---|---|
| Name:   | B6  |
| Organization:   | Joint Spectrum Center (JSC)/OS351               |
| Department of Defense Activity Address Code (DODAAC): | H98294  |
| Address:  | 2004 Turbot Landing<br>Annapolis, MD 21012-5064 |
| Phone Number:   | B6  |
| Fax Number:   | (410) 293-9268                                  |
| E-Mail Address:                                       | B6  |

**b. Alternate COR.**

|                 |   |
|-----------------|---|
| Name:           | B6  |
| Organization:   | JSC/OS351                                       |
| DODAAC:         | H98294  |
| Address:        | 2004 Turbot Landing<br>Annapolis, MD 21012-5064 |
| Phone Number:   | B6  |
| Fax Number:     | (410) 293-9268                                  |
| E-Mail Address: | B6  |

**2. Task Order (TO) Title. Verizon Wireless on Fort Rucker E3 Analysis Support**

**3. Background.** The Telecommunications Act of 1996 directed the heads of all Federal Government departments and agencies to facilitate access by mobile service providers (MSPs) to Federal property for the purpose of siting equipment and mobile service antennas (MSAs). In response, the Department of Defense (DoD) Chief Information Officer (CIO) [formerly the Assistant Secretary of Defense for Command, Control, Communications, and Intelligence (ASD C3I)] issued a policy memorandum regarding placement of commercial antennas on DoD property.<sup>1</sup>

<sup>1</sup> Anthony M. Valletta, DoD CIO (formerly OASD (C3I)) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: DoD CIO (formerly ASD (C3I)), 15 December 1997.

P  
PWS

Enclosure 4a,

Page 1 of 4 Pages  
20M ar2014/Version 3

The DoD CIO policy memorandum requires that Commanders and/or Agency Directors coordinate requests for the placement of new telecommunications services on Federal property with the DoD Joint Spectrum Center (JSC), and that the JSC evaluate the proposed antenna siting/telecommunication service for potential

electromagnetic interference to the existing or planned telecommunications operations of the affected government facility. The memorandum further states that the requestor will reimburse the JSC for the cost of the evaluation.

Verizon Wireless, hereafter referred to as the purchaser, has requested permission to install and operate an Advanced Wireless Services (AWS) and a Personal Communications Service (PCS) system on Fort Rucker, AL.

4. Objectives The objectives of this effort are to:

- Determine the potential for electromagnetic interference (EMI) from the proposed system transmitters to existing and planned military, government, and commercial communications-electronics (C-E) systems.
- Determine the potential for electromagnetic radiation hazards (RADHAZ) from the proposed system transmitters to personnel, fuel, and ordnance with electrically initiated devices (EIDs).

5. Scope This PWS addresses tasking to be performed by the Electromagnetic Spectrum Engineering Services (ESES) contractor in the area of:

Electromagnetic Environmental Effects (E3) and Spectrum Engineering – coordinating electromagnetic compatibility (EMC) standards; analyzing equipment and systems for potential E3 problems and recommending solutions; performing radio frequency (RF) measurements; developing and conducting E3 training; assisting the acquisition community by assessing E3; determining operational frequency bands; and providing assistance in acquiring host nation approval for equipment operation.

6. Performance Requirements The contractor shall provide an electromagnetic environmental effects (E3) and RADHAZ analysis of the proposed installation. The results of the analysis will be documented in a memorandum followed by a Consulting Report (CR).

#### 6.1 Task 1 – E3 Analysis

Preliminary information from the sponsor will be used to conduct a search of military, government, and commercial frequency assignment databases to identify systems operating on government facilities in the vicinity of the site of interest. The electromagnetic environment (EME) will be compiled from the Frequency Resource Record System (FRRS), the Government Master File (GMF), and the Federal Communications Commission (FCC) frequency assignment databases at the JSC. For the analysis of linear EMI effects, the EME will include FRRS and GMF assignments for systems within 75 miles of the proposed site in co-channel or adjacent-channel frequency bands (within  $\pm 10$  MHz of the AWS and PCS base station transmit frequency bands) and assignments for systems within 30 miles, operating in second and third harmonically related frequency bands. FCC assignments for systems within 10 miles operating in co channel, adjacent-channel, or second and third harmonically related frequency bands, will also be identified. The 75 mile radius will be used to include C-E equipment at other DoD and government facilities that could possibly receive signals from the proposed commercial transmitters.

For the analysis of non-linear EMI effects (intermodulation), the cosine EME will include FRRS, GMF, and FCC frequency assignments between 300 MHz and 30 GHz for systems within a two mile radius of the proposed site. The two mile radius is a conservative boundary for the analysis of non-linear EMI effects.

A site survey will not be required. Coordination will be conducted with the purchaser, US Government Spectrum Management, and Base Safety personnel at the proposed site. Proposed system information will be verified with the sponsor. Environmental frequency assignment data will be reviewed and validated with the installation spectrum manager. Any data for frequency assignments not listed in the FRRS, GMF, or FCC databases will be used to augment the project EME.

The augmented frequency assignment data, along with the system characteristics of the introduced commercial telecommunications equipment, will be used to perform the EMI analysis. EMI analysis techniques will be used to determine the potential for inband, adjacent band, harmonically related, and intermodulation interference. These



techniques are designed to eliminate from further consideration those systems for which interference is not predicted using conservative analysis parameters.

For systems not eliminated in the conservative analysis, the Electromagnetic Spectrum Engineering Services (ESES) Contractor will conduct additional, more-detailed, analyses using additional JSC environmental analysis techniques. These techniques predict the effective on-tune received power levels considering the effects of transmitter power levels, harmonic levels, additional filtering provided by duplexers, etc., in the transmit path, transmitter antenna gain (in the direction of the victim receiver), receiver antenna gain (in the direction of the interfering transmitter), and receiver signal-filtering loss (frequency-dependent rejection).

The interference thresholds used in the EMI analysis will be based on interference-to-noise ratios (I/N) required for compatible operation as dictated by the specific modulation types involved in the interference interactions.

Deliverables: Results Memorandum followed by a CR

6.2 Task 2 – RADHAZ Analysis

Upon verification of the characteristics data of the proposed commercial telecommunications system, an analysis will be performed using applicable DoD thresholds to determine distance separation requirements to avoid the potential for RADHAZ to personnel, fuel, and ordnance using EIDs.

Deliverables: To be delivered in the Task 1 Results Memorandum and CR

7. Performance Standards. Not Applicable.

8. Incentives. Not Applicable.

9. Place of Performance. The primary efforts associated with this TO PWS shall be performed at the government and the ESES Contractor facility. A site survey will not be performed as described in item 6.1.

Alternate Place of Performance - Contingency Only. As determined by the COR, contractor employees may be required to work at an alternate place of performance (e.g., home, the contractor's facility, or another approved activity within the local travel area) in cases of unforeseen conditions or contingencies (e.g., pandemic conditions, exercises, government closure due to inclement weather, etc.). Non-emergency/non-essential contractors should not report to a closed government facility. Contractor shall prepare all deliverables and other contract documentation utilizing contractor resources. To the extent possible, the contractor shall use best efforts to provide the same level of support as stated in the PWS. In the event the services are impacted, reduced, compromised, etc., the Contracting Officer or the contractor may request an equitable adjustment pursuant to the Changes clause of the contract.

10. Period of Performance. 240 calendar days after contract award.

11. Delivery Schedule.

| Schedule of Deliverables |   |
|--------------------------|---|
| Title                    | Schedule of Deliverables                            |
| Results Memorandum       | 8 Weeks after TO Award                              |
| Consulting Reports       | 4 weeks after the Results Memorandum is distributed |

12. Security. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETARY, FOR OFFICIAL USE ONLY, CONFIDENTIAL, and SECRET. A

**SECRET clearance will be required to perform daily duties. Periodic meetings will be held where individuals are often required to share data**

**P**

**Enclosure 4a,  
PWS  
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and gather information in a classified environment. Individuals must be able to obtain and maintain a SECRET Clearance.

13. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI). Historical project files and reports will be provided. Site and system characteristics information for the installation proposed by the purchaser will be provided.

14. Other Pertinent Information or Special Considerations.

a. Identification of Possible Follow-on Work. Not applicable.

b. Identification of Potential Conflicts of Interest (COI). The ESES contractor shall identify any possible organizational conflict of interest (OCI) as defined in Subpart 9.5 of the Federal Acquisition Regulation. If there is an OCI, the ESES contractor must inform the COR and provide an OCI Mitigation Plan that identifies how the OCI is to be mitigated.

c. Identification of Non-Disclosure Requirements. Not applicable.

d. Packaging, Packing and Shipping Instructions. Not Applicable, provided in the base contract.

e. Inspection and Acceptance Criteria. Not Applicable, provided in the base contract.

f. Property Accountability. Not applicable.

15. Section 508 Accessibility Standards. Not applicable.

16. External Support. None.

17. Pricing Information. Information is obtained from Price List for MSP Support.

P

Section F - Deliveries or Performance

DELIVERY INFORMATION

| CLIN | DELIVERY DATE                     | QUANTITY | SHIP TO ADDRESS  | UIC    |
|------|-----------------------------------|----------|--|--------|
| 0013 | POP 02-APR-2015 TO<br>30-NOV-2015 | N/A      | DISA JOINT SPECTRUM CENTER<br><i>86</i><br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064<br><i>86</i><br>FOB: Destination | H98294 |

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50084  
AMOUNT: \$20,948.00  
CIN DOSMC500840013: \$20,948.00

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

252.201-7000 Contracting Officer's Representative

DEC 1991

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: *BC*  
Organization/Office Symbol: DISA/PSD63  
Phone No.: *BC*  
E-Mail Address: *BC*

Contract Specialist

Name: *BC*  
Organization/Office Symbol: DISA/PSD63  
Phone No.: *BC*  
E-Mail Address: *BC*

Customer/COR/TM Point of Contact

Name: *BC*  
Organization/Office Symbol: Joint Spectrum Center/OS351  
Phone No.: *BC*  
E-Mail Address: *BC*

Contractor Point of Contact

Contractor Legal Business Name: Exelis, Inc  
DUNS: 083655498  
CAGE CODE: 9M715  
Contractor POC: Anne Hasselbrack  
E-Mail Address: anne.hasselbrack@exelisinc.com  
Phone Number: 301.867.2985  
Fax Number:

(End of clause)

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

(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 System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(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).

**2 n 1**

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

**Not Applicable**

(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       | HQ0131                     |
| Issue By DoDAAC           | HC1047                     |
| Admin DoDAAC              | HC1047                     |
| Inspect By DoDAAC         | H98294                     |
| Ship To Code              | H98294                     |
| Ship From Code            | N/A                        |
| Mark For Code             | N/A                        |
| Service Approver (DoDAAC) | H98294                     |
| Service Acceptor (DoDAAC) | H98294                     |
| Accept at Other DoDAAC    | N/A                        |

|                     |     |
|---------------------|-----|
| LPO DoDAAC          | N/A |
| DCAA Auditor DoDAAC | N/A |
| Other DoDAAC(s)     | N/A |

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(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.

NAME:  
EMAIL:            SC

(Contracting Officer: Insert applicable email addresses or "Not applicable.")

(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)



**ORDER FOR SUPPLIES OR SERVICES**

|   |                                     |   |   |             |
|---|-------------------------------------|---|---|-------------|
| 1. CONTRACT/PURCH. ORDER/ AGREEMENT NO.<br>HC1047-07-D-0001 | 2. DELIVERY ORDER/ CALL NO.<br>0985 | 3. DATE OF ORDER/ CALL<br>(YYYYMMDD)<br>2015 Apr 08 | 4. REQ./ PURCH. REQUEST NO.<br>DOSMC60105 | 5. PRIORITY |
|---|-------------------------------------|---|---|-------------|

|   |             |   |      |   |
|---|-------------|---|------|---|
| 6. ISSUED BY<br>DISA/PL63<br>P.O. BOX 549<br>FORT MEADE MD 20755-0549 | CODE HC1047 | 7. ADMINISTERED BY (if other than 6)<br><b>SEE ITEM 6</b> | CODE | 8. DELIVERY FOB<br><input checked="" type="checkbox"/> DESTINATION<br><input type="checkbox"/> OTHER<br><br>(See Schedule if other) |
|---|-------------|---|------|---|

|  |            |          |   |   |
|--|------------|----------|---|---|
| 9. CONTRACTOR<br>EXELIS INC.<br>NAME ANNE HASSELBRACK<br>AND 12975 WORLDGATE DR STE 700<br>ADDRESS HERNDON VA 20170-6008 | CODE 9M715 | FACILITY | 10. DELIVER TO FOB POINT BY (Date)<br>(YYYYMMDD)<br><b>SEE SCHEDULE</b> | 11. MARK IF BUSINESS IS<br><input type="checkbox"/> SMALL<br><input type="checkbox"/> SMALL DISADVANTAGED<br><input type="checkbox"/> WOMEN-OWNED |
|  |            |          | 12. DISCOUNT TERMS<br>Net 30 Days                                       |   |
| 13. MAIL INVOICES TO THE ADDRESS IN BLOCK<br>See Item 15   |            |          |   |   |

|  |             |   |             |   |
|--|-------------|---|-------------|---|
| 14. SHIP TO<br>DISA JOINT SPECTRUM CENTER<br><i>B6</i><br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064 | CODE H98294 | 15. PAYMENT WILL BE MADE BY<br>DFAS-CO/JAQ<br>ATTN: CAPSW/ORP2<br>P.O. BOX 369016<br>COLUMBUS OH 43236-9016 | CODE HQ0131 | MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2. |
|--|-------------|---|-------------|---|

|   |                |                                     |   |
|---|----------------|-------------------------------------|---|
| 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 type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies: |           |                      |                        |

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 |
|---------------------|------------------------------------|---------------------------------|----------|----------------|------------|
| <b>SEE SCHEDULE</b> |                                    |                                 |          |                |            |

|  |   |                           |
|--|---|---------------------------|
| * 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<br><i>B6</i> | 25. TOTAL<br>\$932,003.00 |
| 27a. QUANTITY IN COLUMN 20 HAS BEEN  |   | 26. DIFFERENCES           |

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 |
|--|--------------------|---|

|  |              |                    |              |
|--|--------------|--------------------|--------------|
| e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE | 28. SHIP NO. | 29. DO VOUCHER NO. | 30. INITIALS |
|--|--------------|--------------------|--------------|

|                     |                   |  |             |                                 |
|---------------------|-------------------|--|-------------|---------------------------------|
| f. TELEPHONE NUMBER | g. E-MAIL ADDRESS | <input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL | 32. PAID BY | 33. AMOUNT VERIFIED CORRECT FOR |
|---------------------|-------------------|--|-------------|---------------------------------|

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

|                    |  |  |                        |
|--------------------|--|--|------------------------|
| a. DATE (YYYYMMDD) | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER | 31. PAYMENT<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> PARTIAL<br><input type="checkbox"/> FINAL | 34. CHECK NUMBER       |
|                    |  |  | 35. BILL OF LADING NO. |

|                 |                 |                              |                      |                     |                     |
|-----------------|-----------------|------------------------------|----------------------|---------------------|---------------------|
| 37. RECEIVED AT | 38. RECEIVED BY | 39. DATE RECEIVED (YYYYMMDD) | 40. TOTAL CONTAINERS | 41. S/R ACCOUNT NO. | 42. S/R VOUCHER NO. |
|-----------------|-----------------|------------------------------|----------------------|---------------------|---------------------|

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT (PWS)  
SPONSOR PROGRAM  
As of 20 January 2015

|   |                       |
|---|-----------------------|
| Contract Number:                                      | HC1047-07-D-0001      |
| Task Order Number:                                    | 0985                  |
| JSC Tracking Number:                                  | T1314                 |
| Follow-on to Previous Contract and Task Order Number: | HC1047-07-D-0001-0852 |

|   |   |                                      |
|---|---|--------------------------------------|
| Type of Task Order  | <input checked="" type="checkbox"/> Cost Plus Incentive Fee     | (Check one box)                      |
|   | <input type="checkbox"/> Firm Fixed Price                       | (Double click on a box to check it.) |
| Key Words   | NTIA, Spectrum Management, SPECTRUM XXI, EL-CID, RF Engineering |                                      |
| SPONSOR   |   |                                      |
| National Telecommunications and Information Administration<br>1401 Constitution Ave<br>Washington, DC 20230 |   |                                      |

1. Contracting Officer Representative (COR).

a. Primary COR.

|   |   |
|---|---|
| Name:   | <i>B6</i>                                       |
| Organization:   | Defense Spectrum Organization (DSO), OS9373     |
| Department of Defense Activity Address Code (DODAAC): | H98294  |
| Address:  | 2004 Turbot Landing<br>Annapolis, MD 21402-5064 |
| Phone Number:   | <i>B6</i>                                       |
| Fax Number:   | (410) 293-2631                                  |
| E-Mail Address:                                       | <i>B6</i>                                       |

b. Alternate COR.

|                 |   |
|-----------------|---|
| Name:           | <i>B6</i>                                       |
| Organization:   | DSO/OS373                                       |
| DODAAC:         | H98294  |
| Address:        | 2004 Turbot Landing<br>Annapolis, MD 21402-5064 |
| Phone Number:   | <i>B6</i>                                       |
| Fax Number:     | (410) 293-2631                                  |
| E-Mail Address: | <i>B6</i>                                       |

2. Contract or Task Order (TO) Title. NTIA Spectrum Automation Support 2015

3. Background. Since FY01, the National Telecommunications and Information Administration (NTIA) has provided funding to the DSO to enhance the SPECTRUM XXI (SXXI) software, to allow the non-DoD federal government spectrum managers to reap the benefits of the SXXI client/server architecture. This TO provides the

guidance and contractual means required to support NTIA during FY15 and follow on years in support of the current Memorandum of Understanding (MOU). The software developed on this TO provides the capability to exchange frequency assignment data among all participating non-DoD federal government agencies, enabling them to update current local frequency assignment databases daily, electronically coordinate frequency assignment transactions, and track proposed frequency assignments from cradle to grave. The architecture includes an unclassified SXXI server, backup server, and clients and a classified (Secret high) server, backup server, and clients.

NTIA also initiated a redesign of the process, forms, and supporting software that captures and reports spectrum certification information. This was necessitated by the increasing need to obtain information regarding more complex communications-electronic equipment and inter- and intra-system relationships, as well as the need to analyze the spectrum supportability of these systems. In support of this effort, NTIA developed an approach to capture technical data using Smart Interface Design (SID) technology. SID technology provides the user with a graphical, icon-based interface supported by sophisticated logic that gathers inter and intra-system relationships and prompts the user to enter required system parameters. Under the auspices of Working Group 5 (WG5), NTIA and the DSO developed alpha and beta versions, as well as Versions 1 through 6 of the Equipment Location-Certification Information Database (EL-CID) software application based on SID technology. The latest version, Version 6.1, was released in FY13.

NTIA Working Party 2 (WP2), initiated in FY94, provides a forum for NTIA and the DSO to meet on a regular basis to review issues concerning the development and fielding of spectrum management automation products. Through WP2, NTIA identifies DSO tasking to support future versions of the software and coordinates with other NTIA working-level groups to ensure that appropriate engineering support is provided. Realizing that resources are limited, initial concentration of software support has been focused in three areas: (1) Frequency Assignment Authorization; (2) Spectrum Certification; and (3) Strategic Spectrum Planning.

In FY06, NTIA expanded the DSO's support to include Radio Frequency (RF) engineering support. The DSO was also tasked to develop the Receiver Degradation Handbook. The Handbook was completed in two phases and is releasable to the public. Phase 1 was completed in November 2006 and focused on the most widely deployed modulation and coding techniques in the presence of additive white Gaussian noise-like and continuous wave-like interferers. Phase 2 of the Handbook, completed in 2009, expanded the modulation, coding and interferer types considered, and also refined the technical material and evaluation method presented in the Handbook. Phase 2 also focused on emerging technologies and signal structures including WiFi, Worldwide Interoperability for Microwave Access, Ultra-Wideband, Radio Local Area Network, and International Mobile Telecommunications.

4. Objectives. The objective of this TO is to provide SXXI, EL-CID, and RF Engineering support to NTIA.

5. Scope. This PWS addresses tasking to be performed by the Electromagnetic Spectrum Engineering Services (ESES) contractor in the areas of operational spectrum support, information management, and technical advice.

- Operational Spectrum Support. This TO provides resources to ensure skilled support personnel are available to answer telephone questions or provide onsite assistance in developing methods of operation for their spectrum management area. Support is provided for SXXI data exchange servers and to NTIA SXXI and EL-CID users.
- Information Management. This TO provides resources for software maintenance support to NTIA for EL-CID and NTIA SXXI.
- Technical Advice. This TO provides NTIA with technical advice related to RF Engineering and SXXI server configurations. The DSO provides technical support/consultation to NTIA in the development of EL-CID and the Office of Spectrum Management Data Dictionary. The DSO participates as a member of various working groups such as Working Party 1 and WP2.

6. Performance Requirements.

6.1 Task 1 – Task Order Management. The contractor shall develop and maintain an integrated Microsoft (MS) Project schedule to track and monitor the activities under this TO. The schedule shall include all tasks and shall include the following activities:

- TO monthly status reports preparation and delivery

- Bi-weekly DSO customer meetings preparation and delivery
- TO joint monthly customer status meetings with the DSO COR and NTIA
- TO monthly status meeting minutes preparation and delivery
- NTIA-submitted SXXI Program Change Request (PCR) implementation and anticipated SXXI release date (Task 2)
- NTIA SXXI training class schedule (Task 3)
- EL-CID software maintenance activities (Task 7)
- EL-CID training class schedule (Task 9)
- EL-CID team participation in NTIA WG meetings (Task 10)

The MS project schedule shall show dependencies between the tasks. The contractor shall include activities external to T1314 efforts that may impact T1314 efforts, e.g., DoD SPECTRUM XXI software maintenance efforts.

The contractor shall conduct joint EL-CID and SXXI monthly customer meetings with the DSO COR and NTIA. The contractor shall prepare an agenda and provide an updated integrated TO schedule for review and discussion. The contractor shall develop project documentation as needed to document DSO COR and NTIA direction, guidance, and project status. The EL-CID and SXXI contractor team leads shall prepare and deliver separate minutes for each meeting (see Task 5 and Task 9).

The contractor shall also provide monthly TO status reports that include the following information: short description of work performed on all tasks/subtasks during the reporting period and work planned for the next reporting period; dates by task that deliverable products were provided to the DSO; risks and issues; expenditures per reporting period; to-date expenditures; and remaining funds. The contractor shall also include an updated high-level project schedule. Invoices will also be provided to the government.

The contractor shall also prepare a Planned versus Actuals Financial Report on a monthly basis. This report will show the planned and actual hours and costs for each task on this task order. The contractor shall review this financial report during the customer status meetings on a monthly basis.

**Deliverables:**

- Integrated MS Schedule of Major TO Activities
- Joint EL-CID and SXXI Monthly Customer Meetings
- Monthly TO Status Reports
- Invoices
- Monthly Planned versus Actual Financial Reports

**6.2 Task 2 – NTIA SXXI Software Assurance - Program Change Requests.** NTIA established a configuration control board (CCB) to collect, evaluate, and prioritize the SXXI Program Change Requests (PCRs) that have been submitted by non-DoD Federal agency users of SXXI. NTIA is an associate member of the SXXI CCB (the effort is funded under DSO TO T1458, *SPECTRUM XXI Lifecycle*). New requirements, as well as adaptive and corrective changes to SXXI are documented and addressed via PCRs. The SXXI CCB approves all PCRs that will be addressed in each software release. Implementation of the PCRs includes modifications to the SXXI software and associated documentation. Replication and distribution of the updated software and documentation is performed under the DSO TO.

NTIA-funded modifications to SXXI are limited to covering changes and enhancements required to address important evolving issues, such as maintaining interoperability between SXXI and the NTIA's Frequency Management Record System (FMRS). NTIA also funds PCRs related to compliance changes; allocation and validation; and standardization table updates on an as required basis in conjunction with version patch upgrades. This task provides software maintenance support to the SXXI CCB for implementation of software changes to address NTIA-submitted SXXI PCRs.

As directed by the DSO COR, the contractor shall conduct an analysis of NTIA-submitted PCRs to develop levels of effort and cost estimates to include: implementation of the software changes and testing; and develop a draft schedule for implementation, test, and anticipated delivery of the version patch upgrades. The contractor shall provide the estimates and draft implementation and test schedule, and the anticipated SXXI release schedule to the

DSO COR and NTIA. NTIA will review and approve the estimates based on available funding. The contractor shall develop a final schedule and implement the changes required to address the approved NTIA-submitted PCRs. The contractor shall deliver the upgrade patch and/or version release 30 days after the DSO T1458 COR has accepted and approved the release.

The contractor SXXI Team Lead shall maintain the MS schedule NTIA-submitted PCRs, and provide monthly updates to the T1314 Project Lead to integrate into the MS schedule of major TO activities and provide to the DSO COR and NTIA at the joint monthly customer meetings.

The contractor shall monitor and provide recommendations on modifications to the current SXXI software configuration management procedures, and perform updates as required during all phases of software development and modification.

Deliverables:

- NTIA-submitted PCR Analysis (LOE and cost estimates, and NTIA PCR implementation & test schedule)
- NTIA-submitted SXXI PCR Implementation Schedule (and monthly updates)
- SXXI Software Release

6.3 Task 3 – NTIA SXXI Training. The NTIA offers SXXI classes for Federal users. Each training session is five days long. Each training class shall have a minimum of six and a maximum of 12 students. Federal users will submit training requests to NTIA. NTIA will provide the student roster for each class to the DSO. The contractor shall provide SXXI training classes for Federal users. The contractor shall provide for four (4) training classes to be held at the contractor's facility in Bowie, MD and one (1) training class to be provided at a Federal facility during the base period. The contractor shall coordinate training dates, and any modifications to the training schedule, with the COR and NTIA personnel.

The contractor shall provide preparatory and execution Training Support, which consists of: host, student, course, and classroom coordination; classroom configuration preparation as needed; course material preparation; and course instruction. The contractor shall provide all training computer workstations/laptops for each training event.

The contractor shall provide two instructors for each course who have been trained on SXXI and who have the required knowledge of the US DoD Frequency Assignment process. NTIA will provide one assistant who is familiar with both the needs of the Federal users and of the SXXI capability.

The contractor shall collect user feedback from attendees at the end of each training course and provide it to the COR.

Deliverables:

- NTIA SXXI Training Support
- NTIA SXXI Training Classes
- NTIA SXXI Training Materials
- NTIA SXXI User Feedback Forms

6.4 Task 4 – NTIA SXXI Operational Support, System Administration, and Information Assurance (IA) Support. With NTIA SXXI software being distributed to additional agencies and changes to operations, including data exchanges between clients and server, it is anticipated that many agencies will require consultations to ensure proper installation, operation, and use of this system. The NTIA SXXI Concept of Operations provides general guidance on how the software is loaded and its functions. The actual implementation of the software will differ for each agency due to mission differences, the actual number of standalone and data exchanging clients installed or moved each year, emergency responses requested by the agencies, and other factors. Skilled support personnel are available to answer telephone questions or provide on-site assistance in developing methods of operation for the spectrum management area of these agencies. Additionally, these interactions have been used to gather potential requirements/enhancements for SXXI software identified by this user community.

NTIA staff serves as the first level of support for Help Desk calls for standalone and data exchanging users. The contractor shall provide backup support as needed.

The contractor shall provide support to NTIA with troubleshooting unusual problems or errors in the daily processing of proposals and status updates to the servers. NTIA will perform the daily proposal updates; the contractor shall provide assistance as needed. The contractor shall perform the daily status updates.

The contractor shall perform assignment updates to the unclassified and classified servers on a daily basis. For processing of assignments to the unclassified servers, NTIA will, on a daily basis, provide the contractor an unclassified file containing assignments for all participating agencies.

On a daily basis, the contractor shall move proposals, including status information, from the unclassified servers to the classified servers.

On a daily basis, the contractor shall load Frequency Assignment Subcommittee agenda files to the SXXI servers and export directives from SXXI to the FMRS.

The contractor shall post DoD proposals submitted to NTIA for approval from the DoD system to the NTIA classified SXXI servers (once this capability has been completed and released).

The contractor shall provide technical support to the NTIA SXXI Database Administrator.

The contractor shall provide technical IA support, including assistance with IA Vulnerability Management (IAVM) compliance.

The contractor shall provide technical system administration support.

Deliverables:

- NTIA SXXI Operational Support
- NTIA SXXI System Administration Support
- NTIA SXXI IA Support

**6.5 Task 5 – NTIA SXXI Help Desk.** The NTIA SXXI Help Desk shall perform most of the same functions that the DoD SXXI Help Desk provides to DoD users.

The contractor shall answer SXXI Help Desk phone calls from Federal SXXI users. NTIA currently receives about eight telephone calls per week. A few other calls come to the DoD SXXI Help Desk and to specific SXXI trainers. A few other calls are made to NTIA Government Representatives. A specific Help Desk phone is available and published to all Federal SXXI users. Also, this Help Desk contact information shall be posted on the NTIA web site.

The contractor shall answer unclassified e-mail inquiries from Federal SXXI users. A special unclassified Help Desk e-mail address is available and shall be maintained by the contractor. This contact information is posted on the NTIA web site.

The contractor shall answer classified e-mail inquiries from Federal SXXI users. A special Secret Help Desk e-mail address shall be available to the Help Desk personnel. This contact information is posted on the NTIA web site.

The contractor shall maintain an unclassified SXXI facsimile (FAX) machine. The contractor shall use an existing FAX machine in the Help Desk area.

The contractor shall maintain an NTIA SXXI Help Desk incident log. The contractor shall record Help Desk calls in the incident log. The contractor shall record the caller information and summarize the reported problem and actions taken to resolve the problem. The contractor shall use the DSO Help Desk incident log program.

The contractor shall maintain the Federal SXXI user's list. All Federal SXXI users shall be entered into a database. The contractor shall use the program the DSO Help Desk has for maintaining this database. New entries into this

database are derived from SXXI training student information sheets, letters, e-mails, or phone calls. The Help Desk shall diligently maintain the list by asking callers to verify their contact information.

The contractor shall send Flash messages to Federal SXXI users. Periodically, SXXI issues need to be published to all users. For instance, when a new version of the software becomes available a flash message should be issued to provide guidance to the users. The program that is used to maintain the user list has a function that shall create the flash e-mail header information.

The contractor shall mail copies of SXXI software and documentation to Federal users. New versions of SXXI are provided by the DSO to NTIA. Patches are distributed via an authorized-user web site. However, if the patches cannot be distributed via the web site, CDs may have to be mailed by the Help Desk. CD production is performed by the DSO (under the T1458 TO). The contractor shall be responsible for the mailing of these CDs. The user database software has the capability to produce mailing labels that will be used for mailing packages.

Deliverables:

NTIA SXXI Help Desk Support

NTIA SXXI Help Desk Incident Log

**6.6 Task 6 – NTIA SXXI Reports and Meetings.** The SXXI contractor team lead (team members as required) shall participate in joint EL-CID and SXXI monthly status meetings with the DSO COR and NTIA (Task 1). The SXXI contractor shall prepare meeting materials, i.e., any documents distributed to the meeting participants for review and discussion during the meeting, as needed. The contractor shall discuss status of SXXI-related activities, issues, and concerns. The contractor shall prepare project documentation as needed to document DSO COR and NTIA direction, guidance, and project status. The SXXI contractor team lead shall prepare and deliver the meeting minutes within seven (7) working days of meeting.

Deliverables:

SXXI Meeting Materials for Joint EL-CID and SXXI Monthly Customer Meetings

SXXI Minutes from Joint EL-CID and SXXI Monthly Customer Meetings

SXXI Weekly TO Status Report Inputs

**6.7 Task 7 – EL-CID Software Maintenance.** EL-CID was developed to provide an automated tool to support electronic processing of spectrum certification requests at NTIA. The database structure and design is based upon the comprehensive database (the OSM Data Dictionary) being developed at NTIA to replace the GMF database that is currently used to support various spectrum management activities, particularly the frequency assignment process. EL-CID improves NTIA spectrum certification data quality, reduces system review effort, and provides data dictionary-compliant automation to support spectrum certification data management. This task provides software maintenance activities for the EL-CID system.

The contractor shall provide emergency bug fixes for the proper operation of EL-CID v6.1. The contractor shall conduct an analysis of the emergency bug fix requests from NTIA to develop levels of effort and cost estimates to include: implementation of the software changes and testing; and develop a draft schedule for implementation, test, and anticipated delivery of the version patch upgrades. The contractor shall provide the estimates and draft implementation and test schedule, and the anticipated EL-CID release schedule to the DSO COR and NTIA. NTIA will review and approve the estimates based on available funding. The contractor shall develop a final schedule and implement the changes required to address the emergency bug fixes approved by NTIA.

The contractor shall update and maintain compliance checks, as needed and directed by the DSO COR, based on changes to the NTIA Manual.

The contractor shall provide timely development and deployment of software releases and/or patches to support EL-CID operations. Along with the delivery of the software release/patch, the contractor shall provide a product Technical Data Package (TDP) to include: source code, executed unit test cases (test cases with accompanying results), executed system test cases (test cases with accompanying results), test reports, release notes, and DSO Form 19.

The contractor shall maintain the list of EL-CID PCRs. The contractor shall develop, maintain, and monitor EL-CID software maintenance activities in an MS Project schedule.

The level of effort required for EL-CID system maintenance activities shall not exceed three-quarters of a man-year of technical labor.

Deliverables:

- EL-CID Software Maintenance Activities MS Project Schedule
- EL-CID Software Releases/Patches (as needed)
- EL-CID TDP for each Software Release/Patch Delivery
- EL-CID PCR List

6.8 Task 8 – EL-CID Operational Support and Help Desk Support. This task provides operational and Help Desk support related to the use of EL-CID as NTIA's spectrum certification automation system.

The contractor shall provide individualized one-on-one attention on the use of EL-CID to the Federal agencies as needed. This support may include the development of briefings and EL-CID software demonstrations.

The contractor shall provide custom support to Federal agencies where agency-specific issues require special attention or a custom response/solution.

The contractor shall provide telephonic and e-mail Help Desk support for EL-CID software and certification database questions, support for recording and managing user requested software changes, and distribution of the software and database as directed by NTIA.

Deliverables:

- EL-CID Operational Support
- EL-CID Help Desk Support

6.9 Task 9 – EL-CID Training Support. The NTIA offers monthly EL-CID training classes. Each training session is two days long. Registration is first-come first-served and is open to US citizens. Class size is a minimum of six (6) and a maximum of 12 students. Training requests are submitted to NTIA and the EL-CID Help Desk. Two to three of the training sessions are held at Federal facilities in the US; the remaining hosted at the contractor's facility in Bowie, MD. This task provides for planning, coordination, and execution of EL-CID user training.

The contractor shall coordinate with NTIA to develop the EL-CID training schedule (training dates, times, and locations). The exact number, location, and schedule of the classes may change, based on NTIA guidance, available resources, and anticipated attendance.

The contractor shall plan to conduct up to four training sessions at Federal agency locations to be determined by NTIA. The plan shall include travel prior to the training session to install software and deliver training materials. The contractor shall conduct the remainder of the classes at the contractor training facility in Bowie, MD.

The contractor shall coordinate with NTIA and users to ensure minimum attendance requirements for monthly training classes are met.

The contractor shall update and produce training course materials for current and future releases of EL-CID.

The contractor shall obtain, document, and deliver user feedback from EL-CID training sessions. The contractor shall incorporate user feedback into the EL-CID training sessions and/or training materials, as appropriate.

Deliverables:

- EL-CID Training Schedule
- EL-CID Training Materials
- EL-CID Training Classes



EL-CID User Feedback Forms

6.10 Task 10 – EL-CID Reports and Meetings. The EL-CID contractor team shall participate in joint EL-CID and SXXI monthly status meetings with the DSO COR and NTIA (Task 1). The contractor shall update the MS Project schedule of EL-CID-related activities and prepare other meeting materials, i.e., any documents distributed to the meeting participants, for review and discussion during the meeting, as needed. The contractor shall discuss status of EL-CID-related activities, issues, and concerns. The contractor shall prepare project documentation as needed to document DSO COR and NTIA direction, guidance, and project status. The EL-CID contractor team lead shall prepare and deliver the meeting minutes within seven (7) working days of meeting.

The contractor shall conduct bi-weekly status meetings with the DSO COR. The contractor shall provide an updated MS project schedule of EL-CID-related activities and prepare other meeting materials as needed for review and discussion during the meeting. The contractor shall discuss status of EL-CID-related activities, issues, and concerns. The contractor shall prepare and deliver the meeting minutes within seven (7) working days of meeting.

As directed by the DSO COR and NTIA, the contractor shall participate in and support NTIA working group activities, including the WG5. The contractor shall support technical discussions and/or meetings related to the system design/architecture of the NTIA Federal Spectrum Certification Database. The contractor shall report WG participation and support in the TO weekly status reports and shall include the following information: WG meeting name; date(s) WG meetings held; list of EL-CID team participants; action items received; action item details (EL-CID team member assigned to the action item, planned/actual completion dates, and progress made during the period); next planned WG meeting date; and any issues, risks, and concerns. The contractor shall add WG meetings and associated action items to the Integrated Schedule of Major TO Activities as meeting dates are announced and meetings are held.

Deliverables:

- EL-CID Meeting Materials for Joint EL-CID and SXXI Monthly Customer Meetings
- EL-CID Minutes from Joint EL-CID and SXXI Monthly Customer Meetings
- EL-CID Bi-weekly DSO Status Meeting Materials
- EL-CID Bi-weekly DSO Status Meetings
- EL-CID Bi-weekly DSO Status Meeting Minutes
- NTIA WG Meeting Participation and Support

7. Performance Standards. The base contract Quality Assurance Surveillance Plan is incorporated by reference.

| Performance Standard  | Acceptable Quality Level (AQL)  | Method of Surveillance                          |
|---|---|---|
| <p>Reports:<br/>Task 1, Task 2,<br/>Task 3, Task 5,<br/>Task 6, Task 7,<br/>Task 8, Task 9,<br/>Task 10</p> | <p><b>Technical Requirements:</b> Percentage of technical requirements contained in the PWS that were met by the contractor. In addition, the deliverable must be complete and free from major technical errors before being accepted by the government. Meeting 90% of the requirements and being complete and free of major technical errors is an AQL.</p> <p>At most, reports should contain only minor technical errors that, although they are minor, require fixing prior to delivering the final product to a sponsor. These technical errors should have no, or a very minor impact on the final conclusions drawn in the report. Material in the report must be presented in a logical, easy to read, and unambiguous manner. All relevant data must be included in the report. Conclusions must be fully supported by data and information in the report. The report must be accurate. Reports should reflect innovative solutions or unique insights to resolve problems. Graphics must be presented in a format that is pleasing, readable, and understandable.</p> <p>Reports must not require multiple returns to the contractor for</p> | <p>Routine inspection of delivered product.</p> |

| Performance Standard  | Acceptable Quality Level (AQL)   | Method of Surveillance                          |
|---|--|---|
|   | <p>editorial rework prior to being accepted by the DSO, user, or sponsor. Reports must be organized so that a typical reader can follow the flow of information in the report with figures and tables properly marked and easily read. The DSO approved report format should be used unless other provisions are stipulated at the beginning of the task. Minimal report rework post-delivery is an AQL.</p> <p><u>Schedule Requirement:</u> AQL is report delivered on-time. The delivery date is the date the contractor provides the deliverable to the government.</p> <p><u>Cost Requirement:</u> AQL is achieved when the cost charged to the TO for the product is equal to the target cost.</p>  |   |
| <p>Software:<br/>Task 2, Task 7</p>   | <p><u>Software Development AQL Metrics:</u></p> <ul style="list-style-type: none"> <li>• <b>Functionality:</b> System satisfies functional requirements set forth in requirements specification.</li> <li>• <b>Usability:</b> User interface is consistent, accessible, and aesthetically pleasing (user-friendly, understandable, well-designed). The requirement is met if NTIA approves the design and stakeholders (users) do not provide negative feedback related to layout or workflow during user testing events.</li> <li>• <b>Reliability:</b> System is available, accurate, and able to recover from catastrophes that are not caused by external factors that are outside of the contractor's control, e.g., Dynamic Link Library (DLL) incompatibilities, Operating System (OS) incompatibilities, 3<sup>rd</sup> party software incompatibilities, etc.</li> <li>• <b>Performance:</b> System meets all performance requirements including response time, recovery time, and startup time, that are not caused by external factors that outside of the contractor control, e.g., insufficient Random Access Memory (RAM), interference from competing applications in the environment, or insufficient Central Processing Unit (CPU) performance, etc.</li> <li>• <b>Supportability:</b> Software meets user requirements related to ease of installation, configuration, and maintenance. Software supportability failure is not the result of external factors that are not within the contractor's control, e.g., DLL or OS incompatibilities, CPU performance limitations, etc."</li> <li>• <b>Software Updates:</b> Did the contractor adequately support database, application, operating system, and model software updates as directed by the government?</li> </ul> <p><u>Schedule Requirement:</u> AQL is software delivered on-time. The delivery date is the date the contractor provides the deliverable to the government.</p> <p><u>Cost Requirement:</u> AQL is achieved when the cost charged to the TO for the product is equal to the target cost.</p> | <p>Routine inspection of delivered product.</p> |
| <p>Database Maintenance:<br/>Task 2, Task 4,<br/>Task 5, Task 7,<br/>Task 8, Task 9</p> | <p><b>Database Maintenance AQL:</b> The contractor properly maintains NTIA SXXI and EL-CID databases to ensure complete, accurate, and timely data.</p> <p>The contractor ensures continued operation and access to NTIA SXXI and EL-CID databases.</p>  | <p>Routine inspection of delivered product.</p> |
| <p>Technical Support:<br/>Task 2, Task 3,<br/>Task 4, Task 5,</p>                       | <p><b>Technical Support AQL:</b> The contractor must adequately prepare for, and participate, in meetings and conferences. If material is presented, it must be accurate and professional. If documents are prepared, they must be accurate, free of errors, and require little or</p>   | <p>Routine inspection of delivered product.</p> |

| Performance Standard                    | Acceptable Quality Level (AQL)  | Method of Surveillance |
|---|---|------------------------|
| Task 6, Task 7, Task 8, Task 9, Task 10 | no editorial rework. If database entries/outputs are required, they must be accurate and in the proper format. If ad hoc analyses are performed, they must be accurate and meet the sponsor's requirements. The contractor must provide the appropriate response (in-house analytical and deployed staff) to resolve interference events. |                        |

8. **Incentives.** The TO incentive fee will be composed of technical, schedule, and cost performance elements. Technical and schedule performance will each be worth 40% of the total fee. Cost performance will make up the remaining 20%.

**Technical.** Technical Performance will be evaluated on a scale of 1 to 5, according to how well the contractor meets the desired performance thresholds. An overall technical quality score of satisfactory (3.00) equates to the technical performance earning the target fee [REDACTED]. An overall unsatisfactory technical quality score (1.00) equates to earning the minimum technical performance fee [REDACTED]. An overall exceptional technical quality score (5.00) equates to earning the maximum technical performance fee [REDACTED]. The range of performance scores and the associated percentage fee earned is presented in the following table.

| Score |      | Performance    | Percent Fee |            |
|-------|------|----------------|-------------|------------|
| Min   | Max  |                | Min         | Max        |
| 1.00  | 1.49 | Unsatisfactory | [REDACTED]  | [REDACTED] |
| 1.50  | 2.49 | Marginal       | [REDACTED]  | [REDACTED] |
| 2.50  | 3.49 | Satisfactory   | [REDACTED]  | [REDACTED] |
| 3.50  | 4.49 | Very Good      | [REDACTED]  | [REDACTED] |
| 4.50  | 5.00 | Exceptional    | [REDACTED]  | [REDACTED] |

**Schedule.** TO deliverables provided to the government within three days of the delivery date will be rated satisfactory and earn the target fee for schedule performance. Deliverables provided more than 10 days late will be rated unsatisfactory and earn the minimum schedule performance fee. Deliverables provided more than 10 days early will be rated exceptional and earn the maximum schedule fee.

**Cost.** Cost at target amount earns the target cost performance fee. Cost above, or below, the target amount will cause the cost performance fee to be proportionally increased or decreased by [REDACTED] for each dollar of variance. Cost performance fee cannot vary below the minimum or above the maximum amounts.

9. **Place of Performance.** The primary place of performance will be the ESES contractor facility, Bowie, MD with periodic local travel to DSO facilities and within the National Capitol Region and NTIA. The DSO sites are 2004 Turbot Landing, Annapolis, MD and 6916 Cooper Avenue, Fort George G. Meade, MD 20755-7901. The NTIA site is 1401 Constitution Ave, Washington, DC 20230. All non-local travel shall be planned and conducted in support of the individual tasks contained in the TO. Written approval by the COR is required before non-local travel is conducted.

**Alternate Place of Performance - Contingency Only.** As determined by the COR, contractor employees may be required to work at an alternate place of performance (e.g., home, the contractor's facility, or another approved activity within the local travel area) in cases of unforeseen conditions or contingencies (e.g., pandemic conditions, exercises, government closure due to inclement weather, etc.). Non-emergency/non-essential contractors should not report to a closed government facility. The contractor shall prepare all deliverables and other contract documentation utilizing contractor resources. To the extent possible, the contractor shall use best efforts to provide the same level of support as stated in the PWS. In the event the services are impacted, reduced, compromised, etc., the Contracting Officer or the contractor may request an equitable adjustment pursuant to the Changes clause of the contract.

10. Period of Performance. This TO will have a base period with no option periods. The base period is from the issuance of the TO through 30 September 2015.

As directed by the COR, the contractor shall continue performance in emergency or mission essential conditions. Additionally, the contractor may be required to account for the whereabouts of their personnel should this information be requested by the COR.

11. Delivery Schedule. Deliverables must be provided on the dates specified in the proposal with associated project management plan. Any changes to the delivery date must have prior approval (in writing) by COR or designate.

All deliverables must be submitted in a format approved by the COR and NTIA customer/client contract official. At a minimum, the deliverable must be in an industry standard format - unless otherwise stipulated.

If the deliverable cannot be provided within the scheduled time frame, the ESES contractor is required to contact the COR in writing with a reason for the delay and the proposed revised schedule. The request for a revised schedule must include the impact on related tasks and the overall project. A request for a revised schedule must be reviewed and approved by the COR before placed in effect. Contract Terms and Conditions may dictate penalties, costs, and other actions based on the facts related to the request for a revised schedule.

Outputs from this TO have been specified in the MOU between the DSO and NTIA. Outputs shall include updated software modules (including source code), as the enhancements are completed. In addition, updated documentation (both on-line and hardcopy) shall be produced as part of these efforts. The following deliverables are expected under this TO:

- Develop and maintain list of NTIA-specific SXXI PCRs
- Provide SXXI operational support to NTIA and non-DoD Federal users
- Provide SXXI system administration and IA support to NTIA
- Provide SXXI system maintenance to non-DoD Federal users
- Provide four five-day SXXI training classes for Federal users at the contractor's facility and one class at a Federal user location
- Provide EL-CID software maintenance support for emergency bug fixes
- Provide EL-CID software releases and/or patches as needed
- Provide EL-CID TDP with each software release/patch delivery to NTIA
- Provide EL-CID compliance check maintenance support as needed
- Provide EL-CID operational support with regards to promoting EL-CID usage (e.g., presentations, briefings, one-on-one discussions)
- Provide monthly EL-CID training classes for users within the Federal government and up to four classes at Federal user locations
- Provide EL-CID telephonic and e-mail Help Desk support
- Provide the most current version of EL-CID as directed by the COR and NTIA

| PWS Task# | Deliverable Title                                  | Format                           | Due Date   | Distribution / Copies                                 | Frequency and Remarks |
|-----------|--|----------------------------------|--|---|-----------------------|
| 1         | Schedule of Major TO Activities                    | MS Project                       | Initial schedule two weeks after award, then bi-weekly | One copy to COR; post to the DSO-ESES Contract Portal | Every two weeks       |
| 1         | Joint EL-CID and SXXI Monthly TO Customer Meetings | In Person and via Teleconference | First Tuesday of each month                            | N/A   | Monthly               |

| PWS Task# | Deliverable Title                                  | Format                                | Due Date   | Distribution / Copies  | Frequency and Remarks   |
|-----------|--|---------------------------------------|--|--|---|
| 1         | Monthly TO Status Reports                          | MS PowerPoint                         | One month after award  | One copy to DSO COR; post to the DSO-ESES Contract Portal          | Monthly   |
| 1         | Invoices   | PDF                                   | Monthly  | Post to the DSO-ESES Contract Portal                               | Monthly   |
| 1         | Planned versus Actual Financial Reports            | MS Excel in DSO-approved format       | 20 business days after contract award, then monthly                          | COR and post to the DSO ESES Contract Portal                       | Monthly; presented during the Bi-weekly Customer Status meetings  |
| 2         | NTIA-submitted SXXI PCR Implementation on Schedule | MS Project                            | One month after award at the initial TO customer meeting and monthly updates | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly   |
| 2         | SXXI Software Release                              | Contractor-determined format          | 30 days after the SXXI software approved for release under TO-T1458          | DSO and NTIA*  | Once for each SXXI release. Date established by DSO TO T1458 COR.   |
| 3         | NTIA SXXI Training Support                         | Various                               | Due when a training class is scheduled                                       | DSO, NTIA, and all participants                                    | Due when a training class is scheduled as determined by NTIA  |
| 3         | NTIA SXXI Training Materials                       | MS-PowerPoint, MS Word, and/or CD/DVD | Due at the time training occurs  | All participants   | Due when a training class is scheduled as determined by NTIA  |
| 3         | NTIA SXXI Training Classes                         | Live Instruction                      | As agreed upon by the COR and the NTIA customer                              | DSO, NTIA, and all participants                                    | Four classes at the contractor's facility and one class at a Federal user location; as determined by NTIA |

| PWS Task# | Deliverable Title  | Format                                  | Due Date   | Distribution / Copies  | Frequency and Remarks                       |
|-----------|--|---|--|--|---|
| 3         | NTIA SXXI User Feedback Forms  | Contractor-Determined Format            | Due one week after each training class                     | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Once for each training class                |
| 4         | NTIA SXXI Operational Support  | Various                                 | First day after award                                      | N/A  | Daily                                       |
| 4         | NTIA SXXI System Administration Support                                    | Various                                 | First day after award                                      | N/A  | As requested.                               |
| 4         | NTIA SXXI IA Support   | Various                                 | First day after award                                      | N/A  | As requested.                               |
| 5         | NTIA SXXI Help Desk Support  | Various                                 | First day after award                                      | N/A  | As requested.                               |
| 5         | NTIA SXXI Help Desk Incident Log   | MS Excel                                | Last day of each month                                     | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly                                     |
| 6         | SXXI Meeting Materials for Joint EL-CID and SXXI Monthly Customer Meetings | As needed; contractor-determined format | First Tuesday of each month at TO monthly customer meeting | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly                                     |
| 6         | SXXI Minutes from Joint EL-CID and SXXI Monthly Customer Meetings          | MS Word                                 | Seven days after meeting                                   | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly                                     |
| 6         | SXXI Weekly TO Status Report Inputs  | MS Word                                 | Initial one week after award, then weekly                  | Distributed as part of the TO weekly status report                 | Weekly                                      |
| 7         | EL-CID Software Maintenance Activities Schedule                            | MS Project                              | Initial two weeks after award, then bi-weekly              | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Bi-weekly                                   |
| 7         | EL-CID Software Release/Patches  | DVD                                     | Upon completion of emergency bug fixes                     | Standard Distribution* - One copy to DSO COR and NTIA*             | As directed by DSO COR and approved by NTIA |

| PWS Task# | Deliverable Title  | Format                       | Due Date   | Distribution / Copies  | Frequency and Remarks  |
|-----------|--|------------------------------|--|--|--|
| 7         | EL-CID TDP   | CD-ROM                       | With delivery of EL-CID Software Release/ Patch            | Standard Distribution*, One copy to DSO COR and NTIA*              | As directed by DSO COR and approved by NTIA  |
| 7         | EL-CID PCR List  | MS Excel                     | Initial TO monthly meeting, then monthly                   | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly  |
| 8         | EL-CID Operational Support   | Various                      | First Day after Award                                      | N/A  | As requested.  |
| 8         | EL-CID Help Desk Support   | Various                      | First day after award                                      | N/A  | As requested.  |
| 9         | EL-CID Training Schedule   | contractor-Determined Format | Initial two weeks after award and as needed                | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | As requested by DSO COR or NTIA  |
| 9         | EL-CID Training Materials  | MS-PowerPoint, MS Word, CDs  | Due at the time training occurs                            | All participants   | Once for each training class.  |
| 9         | EL-CID Training Classes  | contractor-Determined Format | Due when a Training Class is scheduled                     | N/A  | Approximately monthly at the contractor's facility and up to four at Federal user locations; as determined by NTIA |
| 9         | EL-CID User Feedback Forms   | contractor-Determined Format | One week after each training class                         | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Once for each training class   |
| 10        | EL-CID Meeting Materials for Joint EL-CID and SXXI Monthly Customer Meetings | contractor-Determined Format | First Tuesday of each month at TO monthly customer meeting | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly  |

| PWS Task#  | Deliverable Title   | Format  | Due Date                                      | Distribution / Copies  | Frequency and Remarks           |
|--|---|---|---|--|---------------------------------|
| 10   | EL-CID Minutes from Joint EL-CID and SXXI Monthly Customer Meetings | MS Word   | Seven days after TO monthly customer meeting  | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Monthly                         |
| 10   | EL-CID Bi-weekly DSO Status Meeting Materials                       | contractor-Determined Format  | Initial two weeks after award, then bi-weekly | One copy to DSO COR; post to the DSO-ESES Contract Portal          | Bi-Weekly                       |
| 10   | EL-CID Bi-weekly DSO Status Meetings                                | In Person and via Teleconference  | Initial two weeks after award, then bi-weekly | N/A  | Bi-Weekly                       |
| 10   | EL-CID Bi-weekly DSO Status Meeting Minutes                         | MS Word   | Seven days after meeting                      | One copy to DSO COR and NTIA; post to the DSO-ESES Contract Portal | Bi-weekly                       |
| 10   | EL-CID Weekly TO Status Report Inputs                               | MS Word   | Initial one week after award, then weekly     | Distributed as part of the TO weekly status report                 | Weekly                          |
| 10   | NTIA WG Meeting Participation and Support                           | Meeting Attendance in Person and via Teleconference; Support as Directed by the NTIA WG | As WG meetings are scheduled                  | One copy to DSO COR, NTIA Project Manager, and NTIA WG lead        | As directed by DSO COR and NTIA |
| *Standard Distribution: One copy of the transmittal letter <u>without the deliverable</u> to the Contracting Officer; one copy of the transmittal letter <u>with the deliverable</u> to the Primary COR. |   |   |   |  |                                 |

12. Security. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETARY, FOR OFFICIAL USE ONLY, CONFIDENTIAL, SECRET. A SECRET clearance will be required to perform daily duties. Periodic meetings will be held where individuals are often required to share data and gather information in a classified environment. Individuals must be able to obtain and maintain a SECRET Clearance.

13. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI). The DSO and NTIA will provide any GFI necessary to perform daily duties within the limitation of the contract and DoD security guidelines. The DSO and NTIA will also provide historical project files and reports if available. The DSO reserves the right to restrict GFI in support of national security and DoD interests. In the event Government Furnished Property (GFP) is provided, it will be delivered to the DSO and/or NTIA upon final completion of this project.

14. Other Pertinent Information or Special Considerations.

a. Identification of Possible Follow-on Work. Any additional tasking requested by NTIA will be identified in an amendment to this PWS.

b. Identification of Potential Conflicts of Interest (COI). The contractor shall identify any possible organizational conflict of interest (OCI) as defined in Subpart 9.5 of the Federal Acquisition Regulation. If there is



an OCI, the contractor must inform the KO and COR and provide an OCI Mitigation Plan that identifies how the OCI is to be mitigated.

- c. Identification of Non-Disclosure Requirements. Not Applicable.
- d. Packaging, Packing and Shipping Instructions. Not Applicable, provided in the base contract.
- e. Inspection and Acceptance Criteria. Not Applicable, provided in the base contract.
- f. Property Accountability. Not Applicable.

15. Section 508 Accessibility Standards. Investigations indicate that the software developed under this task order are National Security Systems and therefore, are not subject to section 508 compliance requirements. In the event that a later decision is made that any of the software covered by this task order are subject to 508 compliance, the following Section 508 Accessibility Standard(s) (Technical Standards and Functional Performance Criteria) are applicable (if box is checked) to this acquisition, and if needed, changes to the software will be addressed in a subsequent task order.

#### Technical Standards

- 1194.21 - Software Applications and Operating Systems
- 1194.22 - Web Based Intranet and Internet Information and Applications
- 1194.23 - Telecommunications Products
- 1194.24 - Video and Multimedia Products
- 1194.25 - Self-Contained, Closed Products
- 1194.26 - Desktop and Portable Computers
- 1194.41 - Information, Documentation and Support

The Technical Standards above facilitate the assurance that the maximum technical standards are provided to the Offerors. Functional Performance Criteria is the minimally acceptable standards to ensure Section 508 compliance. This block is checked to ensure that the minimally acceptable electronic and information technology (E&IT) products are proposed.

#### Functional Performance Criteria

- 1194.31 - Functional Performance Criteria

16. External Support. No external support is required at this time.

17. Pricing Information. Information to be provided by the contractor. Each task must be individually priced at the subtask level. Each pricing breakout must be individually priced to include total labor hours, labor hours and cost broken out by labor categories, travel, purchases, etc.

18. Software Purchase. Any software to be purchased as a result of the implementation of this PWS shall be approved by the DSO Production Configuration Control Board (CCB) prior to the purchase. Requests shall be submitted not later than 10 business days prior to the intended purchase date. No software purchases may be made without the expressed approval by the DSO Production CCB. The content of this request shall include:

- Software Vendor
- Software Product/Version
- Software Domain (e.g., Government off the Shelf, Commercial off the Shelf, Public Domain)
- Software Function
- DSO Organization: Division and Branch
- TO Number
- COR
- Vendor Point of Contact Information

License type, Number of licenses  
Estimated and Final License cost

19. Software Development. Development of Information Assurance (IA)-enabled software shall comply with DoD Directive 8500.01E, particularly paragraphs 4.8.2, 4.17, 4.18, and 4.24. This requirement does not imply that other DoD directives, instructions, or guidelines are to be excluded from consideration in the development process; conversely, the developer is responsible for being knowledgeable and fully compliant with all IA-related mandates in the creation and delivery of software products. (IA-enabled software is software whose primary role is not security, but which provides security services as an associated feature of its intended operating capabilities. Examples include database and web services.)

The contractor shall ensure that hardware, firmware, and software components or products incorporated into their development comply with the evaluation and validation requirements of National Security Telecommunications and Information Systems Security Policy Number 11, "National Policy Governing the Acquisition of Information Assurance (IA) and IA-Enabled Information Technology Products."

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  |
|--------|-------------|------------|-------------|------------|
| 0014   | Destination | Government | Destination | Government |
| 001401 | N/A         | N/A        | N/A         | Government |
| 001402 | N/A         | N/A        | N/A         | Government |

Section F - Deliveries or Performance

DELIVERY INFORMATION

| CLIN   | DELIVERY DATE                     | QUANTITY | SHIP TO ADDRESS  | UIC    |
|--------|-----------------------------------|----------|--|--------|
| 0014   | POP 11-APR-2015 TO<br>30-SEP-2015 | N/A      | DISA JOINT SPECTRUM CENTER<br><i>OK</i><br>2104 TURBOT LANDING<br>ANNAPOLIS MD 21402-5064<br><i>OK</i><br>FOB: Destination | H98294 |
| 001401 | N/A                               | N/A      | N/A  | N/A    |
| 001402 | N/A                               | N/A      | N/A  | N/A    |

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 CI013 0 068142 2F 255020 DOSMC50105  
AMOUNT: \$931,534.00  
CIN DOSMC50105001401: [REDACTED] *86*  
CIN DOSMC50105001402: [REDACTED] *86*

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: *86*  
Organization/Office Symbol: PL63  
Phone No.: *86*  
E-Mail Address: *86*

Contract Specialist

Name: *86*  
Organization/Office Symbol: PL63  
Phone No.: *86*  
E-Mail Address: *86*

Customer/COR/TM Point of Contact

Name: *86*  
Organization/Office Symbol: Defense Spectrum Organization/JSC/OS9373  
Phone No.: *86*  
E-Mail Address: *86*

Contractor Point of Contact

Contractor Legal Business Name: ITT  
DUNS: 083655498  
CAGE CODE: 9M715

Contractor POC:

Anne Hasselbrack  
E-Mail Address: anne.hasselbrack@exelisinc.com  
Phone Number: 301.867.2985

Technical POC:

Michael Hayes  
E-mail: Michael.hayes@exelisinc.com  
Phone Number: 301.867.2956

(End of clause)

Section I - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

(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 System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(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).  
Invoice.

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.  
Not applicable.

(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       | HQ0131                     |
| Issue By DoDAAC           | HC1047                     |
| Admin DoDAAC              | HC1047                     |
| Inspect By DoDAAC         | H98294                     |
| Ship To Code              | H98294                     |
| Ship From Code            | _____                      |
| Mark For Code             | _____                      |
| Service Approver (DoDAAC) | H98294                     |
| Service Acceptor (DoDAAC) | H98294                     |
| Accept at Other DoDAAC    | _____                      |
| LPO DoDAAC                | _____                      |
| DCAA Auditor DoDAAC       | _____                      |
| Other DoDAAC(s)           | _____                      |

(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.

Name:  
E-mail:

*BC*

(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.