

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HC1047-07-D-0001		2. DELIVERY ORDER/ CALL NO. 0986		3. DATE OF ORDER/ CALL (YYYYMMDD) 2016 May 07		4. REQ / PURCH REQUEST NO DOSMCS0106		5. PRIORITY			
6. ISSUED BY DISA/PL63 P O BOX 549 FORT MEADE MD 20755-0549			CODE HC1047		7. ADMINISTERED BY (if other than 6) SEE ITEM 6			8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)			
9. CONTRACTOR EXELIS INC. NAME ANNE HASSELBRACK AND 12975 WORLDGATE DR STE 700 ADDRESS HERNDON VA 20170-6008			CODE 9M715		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED		
14. SHIP TO DISA COMMUNICATION CENTER 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064			CODE H98294		15. PAYMENT WILL BE MADE BY DFAS-CO/JAQ ATTN: CAPSW/ORP2 P.O. BOX 389018 COLUMBUS OH 43238-9018			CODE HQ0131		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15	
16. TYPE OF ORDER		DELIVERY/ CALL <input checked="" type="checkbox"/>		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.							
		PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF: T3894 & 2-11-2014							
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
		SEE SCHEDULE									
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.										24. UNITED STATES OF AMERICA	
										25. TOTAL	
										26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN											
<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 <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				34. CHECK NUMBER	
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER				<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				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	Verizon on Ft Drum Engineering FFP Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3804). The contractor's proposal titled "Verizon Wireless on Fort Drum" with E3 Analysis Support" dated 24 November 2014 is incorporated by reference. FOB: Destination PURCHASE REQUEST NUMBER: DOSMC50106	1	Each	\$20,948.00	\$20,948.00
				NET AMT	\$20,948.00
	ACRN AA CIN: DOSMC501060013				\$20,948.00

Section C - Descriptions and Specifications

PWS

PERFORMANCE WORK STATEMENT (PWS)
SPONSOR PROGRAM
as of 13/Nov/2014

Contract Number:	HC1047-07-D-0001
JSC Tracking Number:	T3804
Task Order Number:	0986

Type of Task Order	<input type="checkbox"/> Cost Plus Incentive Fee	(Check one box)
	<input checked="" type="checkbox"/> Firm Fixed Price	(Double click on a box to check it.)
Key Words	Verizon Wireless, Fort Drum, E3 Analysis, RADHAZ, AWS, LTE, MSP	
SPONSOR		
Verizon Wireless 175 Calkins Rd Rochester NY 14623		

1. Contracting Officer's Representative (COR).

a. Primary COR.

Name:	<i>AC</i>
Organization:	Joint Spectrum Center (JSC)/OS351
Department of Defense Activity Address Code (DODAAC):	H98294
Address:	2004 Turbot Landing Annapolis, MD 21012-5064
Phone Number:	<i>86</i>
Fax Number:	(410) 293-9268
E-Mail Address:	<i>86</i>

b. Alternate COR.

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

2. Task Order (TO) Title. Verizon Wireless on Fort Drum 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 C31)] issued a policy memorandum regarding placement of commercial antennas on DoD property.¹

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) system and a Long Term Evolution (LTE) system on Fort Drum, NY.

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 ± 10 MHz of the AWS 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.

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

¹ Anthony M. Valletta, DoD CIO (formerly OASD (C31)) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: DoD CIO (formerly ASD (C31)), 15 December 1997.

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 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 11-MAY-2015 TO 10-JAN-2016	N/A	DISA JOINT SPECTRUM CENTER 86 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 66 FOB: Destination	H98294

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50106
AMOUNT: \$20,948.00
CIN DOSMC501060013. \$20,948.00

Section I - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: : 86

Organization/Office Symbol: PL63

Phone No.: 66

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: DSO/ISC/OS351

Phone No.: 86

E-Mail Address: 86

Contractor Point of Contact

Contractor Legal Business Name:

DUNS: 0833655498

CAGE CODE: 9M715

Contractor POC: Anne Hasselbrack

E-Mail Address: anne.hasselbrack@exelis.com

Phone Number: 301-867-2956

OR

Michael Hayes

301-867-2956

Michael.hayes@exelis.com

(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).

Combo

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

Destination

(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	N/A

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	HAA031
Other DoDAAC(s)	N/A

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

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

B6

(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.

B6

(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 HC1047-07-D-0001		2. DELIVERY ORDER/ CALL NO. 0987		3. DATE OF ORDER/CALL (YYYYMMDD) 2015 Apr 02		4. REQ/PURCH REQUEST NO DOSMC50085		5. PRIORITY	
6. ISSUED BY DISA/PL63 P.O. BOX 519 FORT MEADE MD 20755-0549		CODE: HC1047		7. ADMINISTERED BY (if other than 6) CODE: SEE ITEM 6				8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)	
9. CONTRACTOR EXELIS INC NAME ANNE HASSELBRACK AND 12975 WORLDGATE DR STE 700 ADDRESS HERNDON VA 20170-6008		CODE: 9M715		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED	
14. SHIP TO NSA JOINT SPECTRUM CENTER <i>56</i> 2104 TURBO LANDING ANNAPOLIS MD 21402-5064		CODE: H98294		15. PAYMENT WILL BE MADE BY CODE: HQ0131 DFAS-CO/JAQ ATTN: CAPSW/WRP2 P.O. BOX 309016 COLUMBUS OH 43236-9016				13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15	
16. TYPE OF ORDER		DELIVERY/ CALL <input checked="" type="checkbox"/>		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.					
PURCHASE				Reference your quote dated Furnish the following on terms specified herein. REF:					
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.									
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)
<input 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	
SEE SCHEDULE									
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.									
24. UNITED STATES OF AMERICA <i>56</i>								25. TOTAL	<i>531 098197</i>
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED								26. DIFFERENCES	
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 <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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <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	\$53,068.00	\$53,068.00
EXERCISED OPTION	Verizon Wireless Hawaii Support FFP				

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T37). The contractor's proposal titled "Verizon Wireless, Kaneohe MCB, Marine Corps Training Area Bellows, Puna Mano Training Area, Pohakuloa Training Area, E3 Analysis, RADHAZ, AWS, MSP Support" dated 3 November 2014 is incorporated by reference.

Period of Performance: April 02, 2015 through November 30 2015

FOB: Destination

PURCHASE REQUEST NUMBER: DOSMC50085

NET AMT \$53,068.00

ACRN AA \$53,068.00
CIN: DOSMC500850013

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT

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

Contract Number:	HC1047-07-D-0001
JSC Tracking Number:	T3793
Task Order Number:	

Type of Task Order	<input type="checkbox"/> Cost Plus Incentive Fee <input checked="" type="checkbox"/> Firm Fixed Price	(Check one box) (Double click on a box to check it.)
Key Words	Verizon Wireless, Kaneohe MCB, Marine Corps Training Area Bellows, Puna Mano Training Area, Pohakuloa Training Area, E3 Analysis, RADHAZ, AWS, MSP	
SPONSOR		
Verizon Wireless 3245 158 th Street SE M/S 231 Bellevue, WA 98008		

1. Contracting Officer's Representative (COR).

a. Primary COR.

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

b. Alternate COR.

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

2. Task Order (TO) Title. Verizon Wireless on Kaneohe MCB, Marine Corps Training Area Bellows, Puna Mano Training Area, and Pohakuloa Training Area, HI 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 C31)] issued a policy memorandum regarding placement of commercial antennas on DoD property.¹

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 Service (AWS) system on Kaneohe MCB, Marine Corps Training Area Bellows, Puna Mano Training Area, and Pohakuloa Training Area, HI.

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 for the Puna Mano Training Area and Pohakuloa Training Area, HI proposed installations. The results of the analyses will be documented in a memorandum followed by a Consulting Report (CR) for each of the installations.

The contractor shall provide an E3 analysis of the Kaneohe MCB and Marine Corps Training Area Bellows, HI proposed installations. The results of the analyses will be documented in a memorandum followed by a CR for each of the installations. The electromagnetic radiation hazards (RADHAZ) analysis of the system transmitters for the Marine Corps sites will be conducted by the Naval Surface Warfare Center Dahlgren Division (NSWCDD), Dahlgren, VA and will be provided under separate cover to Verizon Wireless.

6.1 Task 1 – E3 Analyses.

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 sites 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 sites in co-channel or adjacent-channel frequency bands (within ± 10 MHz of the AWS 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.

¹ Anthony M. Valletta, Department of Defense (DoD) Chief Information Officer (CIO) (formerly OASD (C31)) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: DoD CIO (formerly the ASD (C31)), 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 sites. 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 sites. Proposed system information will be verified with the sponsor. Environmental frequency assignment data will be reviewed and validated with the installation spectrum manager(s). 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 analyses. 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 analyses 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 Memoranda followed by CRs

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	20 Weeks after TO Award
Consulting Reports	4 weeks after each 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 02-APR-2015 TO 30-NOV-2015	N/A	DISA JOINT SPECTRUM CENTER 56 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 56 FOB: Destination	H98294

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020

AMOUNT: \$53,068.00

CIN DOSMC 500850013: \$53,068.00

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: *BL*

Organization/Office Symbol: DISA/PSD63

Phone No.: *BL*

E-Mail Address: *BL*

Contract Specialist

Name: *BL*

Organization/Office Symbol: DISA/PSD63

Phone No.: *BL*

E-Mail Address: *BL*

Customer/COR/TM Point of Contact

Name: *BL*

Organization/Office Symbol: Joint Spectrum Center/J8

Phone No.: *BL*

E-Mail Address: *BL*

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	HC0131
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	

(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

B6

(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.

(Contracting Officer: Insert applicable information or "Not applicable.")

(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. HC1047-07-D-0001	2. DELIVERY ORDER/ CALL NO. 0988	3. DATE OF ORDER/CALL (YYYYMMDD) 2015 Apr 07	4. REQ./PURCH. REQUEST NO. DOSMC50107	5. PRIORITY
---	-------------------------------------	--	--	-------------

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

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

14. SHIP TO SIGNAL MOUNT SPECTRUM CENTER <i>86</i> 2104 TURBO I LANDING ANNAPOLIS MD 21402-5064	CODE H98294	15. PAYMENT WILL BE MADE BY DFAS-CO/JAQ ATTN: CAPSW/ORP2 P.O. BOX 369016 COLUMBUS OH 43236-9016	CODE HQ0131	MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.
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16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.
	PURCHASE	<input type="checkbox"/>	Reference your quote dated Furnish the following on terms specified herein. REF: 1/30/2015 (T3811)

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
SEE SCHEDULE					

* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.	24. UNITED STATES OF AMERICA	TOTAL	\$52,870.00
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27a. QUANTITY IN COLUMN 20 HAS BEEN
 INSPECTED RECEIVED ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	c. DATE (YYYYMMDD)	d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
--	-----------------------	---

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 <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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. CHECK NUMBER
			35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.
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Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	Elgin AFB FFP Engineering Support on Elgin AFB FFP Engineering Electromagnetic Support FFP Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in Performance Work Statement (T3811). The contractor's proposal titled "AT&T Mobility Wireless on Elgin AFB with Exelis Corp dated 30 January 2015 is incorporated by reference FOB: Destination PURCHASE REQUEST NUMBER: DOSMC50072	1	Each	\$52,870.00	\$52,870.00
				NET AMT	\$52,870.00
	ACRN AA CIN: DOSMC501070013				\$52,870.00

Section C - Descriptions and Specifications

PWS

PERFORMANCE WORK STATEMENT (PWS)
SPONSOR PROGRAM
as of 22/Dec/2014

Contract Number:	HC1047-07-D-0001
JSC Tracking Number:	T3811
Task Order Number:	0988

Type of Task Order	<input type="checkbox"/> Cost Plus Incentive Fee	(Check one box)
	<input checked="" type="checkbox"/> Firm Fixed Price	(Double click on a box to check it.)
Key Words	AT&T Mobility, Eglin AFB, E3 Analysis, RADHAZ, LTE, MSP	
SPONSOR		
AT&T Mobility LLC 3535 Colonnade Pkwy Birmingham, AL 35243		

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 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 Annapolis, MD 21012-5064
Phone Number:	B6
Fax Number:	(410) 293-9268
E-Mail Address:	B6

2. Task Order (TO) Title. AT&T Mobility on Eglin AFB 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 C31)] issued a policy memorandum regarding placement of commercial antennas on DoD property.¹

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 two Long Term Evolution (LTE) systems on five sites at Eglin AFB.

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 ± 10 MHz of the 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.

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

¹ Anthony M. Valletta, DoD CIO (formerly OASD (C31)) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: DoD CIO (formerly ASD (C31)), 15 December 1997.

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	20 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 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 15-APR-2015 TO 14-DEC-2015	N/A	DISA JOINT SPECTRUM CENTER <i>81</i> 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 <i>86</i> FOB: Destination	H98294

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50107
AMOUNT: \$52,870.00
CIN DOSMC501070013: \$52,870.00

Section I - Contract Clauses

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: OS351
Phone No.: 86
E-Mail Address: 86

Contractor Point of Contact

Contractor Legal Business Name:
DUNS: 0833655498
CAGE CODE: 9M715
Contractor POC: Anne Hasselbrack
E-Mail Address: anne.hasselbrack@exelisinc.com
Phone Number: 301-867-2985

OR

Contractor POC:

Name: Michael Hayes
Email: michael.hayes@exelisinc.com
Phone: 301-867-2956

(End of clause)

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

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

Pay Official DoDAAC	HQ0131
Issue By DoDAAC	HC1047
Admin DoDAAC	HC1047
Inspect By DoDAAC	HC1047
Ship To Code	N/A
Ship From Code	N/A
Mark For Code	N/A
Service Approver (DoDAAC)	H98294
Service Acceptor (DoDAAC)	H98294
Accept at Other DoDAAC	H98294
LPO DoDAAC	N/A
DCAA Auditor DoDAAC	N/A
Other DoDAAC(s)	N/A

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

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

BL

(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.

BL

Email *BL*

(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. HC1047-07-D-0001		2. DELIVERY ORDER/ CALL NO. 0989		3. DATE OF ORDER/ CALL (YYYYMMDD) 2015 Apr 07		4. REQ./PURCH. REQUEST NO. DOSMC50072		5. PRIORITY			
6. ISSUED BY DISA/PL63 P.O. BOX 549 FORT MEADE MD 20755-0549			CODE HC1047		7. ADMINISTERED BY (if other than 6) SEE ITEM 6			CODE			
9. CONTRACTOR EXELIS INC. ANNE HASSELBRACK AND 12975 WORLDGATE DR STE 700 ADDRESS HERNDON VA 20170-6008			CODE 9M715		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input checked="" type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED		
14. SHIP TO DISA JOINT SPECTRUM CENTER <i>B6</i> ANNAPOLIS MD 21402-5064			CODE H98294		15. PAYMENT WILL BE MADE BY CODE HQ0131 DFAS-CO/JAO ATTN: CAPSW/ORP2 P.O. BOX 369016 COLUMBUS OH 43236-9016			12. DISCOUNT TERMS Net 30 Days			
13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15									MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.		
16. DELIVERY TYPE OF ORDER <input checked="" type="checkbox"/> DELIVERY/ CALL <input type="checkbox"/> PURCHASE X This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. Reference your quote dated Furnish the following on terms specified herein. REF. 6/19/2014 (T3720)											
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	
		SEE SCHEDULE									
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.		<i>B6</i>				24. UNITED STATES OF AMERICA		25. TOTAL	\$52,870.00	26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <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 <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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34. CHECK NUMBER		
									35. BILL OF LADING NO.		
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO		42. S/R VOUCHER NO.	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	T-Mobile South LLC on Fort Bragg FFP Engineering Support on Fort Bragg FFP Engineering Electromagnetic Support /E3 Analysis and support as specified in Performance Work Statement (T3720). The contractor's proposal titled "T-Mobile South LLC on Fort Bragg with Exclis Corp dated 19 June 2014 is incorporated by reference	1	Each	\$52,870.00	\$52,870.00
FOB: Destination PURCHASE REQUEST NUMBER: DOSMC50072					

NET AMT \$52,870.00

ACRN AA \$52,870.00
 CIN: DOSMC500720013

Section C - Descriptions and Specifications

PWS

PERFORMANCE WORK STATEMENT (PWS)
SPONSOR PROGRAM
as of 17/Apr/2014

Contract Number:	HC1047-07-D-0001
JSC Tracking Number:	T3720
Task Order Number:	0989

Type of Task Order	<input type="checkbox"/> Cost Plus Incentive Fee <input checked="" type="checkbox"/> Firm Fixed Price	(Check one box) (Double click on a box to check it.)
Key Words	T-Mobile, Fort Bragg, E3 Analysis, RADHAZ, PCS, LTE, MSP	
SPONSOR		
T-Mobile South LLC 2105 Water Ridge Pkwy Suite 400 Charlotte, NC 28217		

1. Contracting Officer's Representative (COR).

a. Primary COR.

Name:	<i>86</i>
Organization:	Joint Spectrum Center (JSC)/J8
Department of Defense Activity Address Code (DODAAC):	H98294
Address:	2004 Turbot Landing Annapolis, MD 21012-5064
Phone Number:	<i>86</i>
Fax Number:	(410) 293-9268
E-Mail Address:	<i>86</i>

b. Alternate COR.

Name:	To Be Determine (TBD)
Organization:	Joint Spectrum Center (JSC)/J8
DODAAC:	H98294
Address:	2004 Turbot Landing Annapolis, MD 21012-5064
Phone Number:	
Fax Number:	
E-Mail Address:	

2. Task Order (TO) Title. T-Mobile on Fort Bragg 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.¹

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.

T-Mobile South LLC, hereafter referred to as the purchaser, has requested permission to install and operate a Personal Communications Service (PCS) system and a Long Term Evolution (LTE) system at five sites on Fort Bragg, NC.

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 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 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 ± 10 MHz of the PCS 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.

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.

¹ 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.

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 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	24 Weeks after Task Order 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 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 15-APR-2015 TO 14-DEC-2015	N/A	DISA JOINT SPECTRUM CENTER <i>AK</i> 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 <i>AK</i> FOB: Destination	H98294

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50072
AMOUNT: \$52,870.00
CIN DOSMC500720013: \$52,870.00

Section I - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: *BC*
Organization/Office Symbol: PI 63
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: (JSC) OS351
Phone No.: *BC*
E-Mail Address: *BC*

Contractor Point of Contact

Contractor Legal Business Name:
DUNS: 0833655498
CAGE CODE: 9M715
Contractor POC: Anne Hasselbrack
E-Mail Address: anne.hasselbrack@exelisinc.com
Phone Number: 301-867-2985

OR

Contractor POC:

Name: Michael Hayes
Email: michael.hayes@exelisinc.com
Phone: 301-867-2956

(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).

Combo

(Contracting Officer: Insert applicable document type(s). Note: If a "Combo" document type is identified but not supportable by the Contractor's business systems, an "Invoice" (stand-alone) and "Receiving Report" (stand-alone) document type may be used instead.)

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

Destination

(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	HC1047
Ship To Code	N/A
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

(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.

86

(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.

Name: _____
Phone: 86 _____
Email: 86 _____

(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. HC1047-07-D-0001	2. DELIVERY ORDER/ CALL NO. 0990	3. DATE OF ORDER/CALL (YYYYMMDD) 2015 Apr 30	4. REQ/PURCH. REQUEST NO. DOSMC50078	5. PRIORITY
---	-------------------------------------	--	---	-------------

6. ISSUED BY DEFENSE INFORMATION SYSTEMS AGENCY 6910 COOPER AVENUE FT. MEADE MD 20755 CODE HC1047	7. ADMINISTERED BY (if other than 6) CODE SEE ITEM 6
---	--

9. CONTRACTOR EXELIS INC. ANNE HASSELBRACK 12975 WORLDGATE DR STE 700 HERNDON VA 20170-6008 CODE 9M715	FACILITY	10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)
---	----------	---	---

14. SHIP TO DIGITAL POINT SPECTRUM CENTER 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 CODE H98294	15. PAYMENT WILL BE MADE BY CODE HQ0131 DFAS-CO/JAQ ATTN: CAPSW/ORP2 P.O. BOX 369016 COLUMBUS OH 43236-9016	11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED
---	---	---

16. TYPE OF ORDER	DELIVERY/ CALL	X	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. Reference your quote dated _____ Furnish the following on terms specified herein. REF: _____
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ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED (YYYYMMDD)
--------------------	-----------	----------------------	------------------------

If this box is marked, supplier must sign Acceptance and return the following number of copies: _____

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
SEE SCHEDULE					

* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.	24. UNITED STATES OF AMERICA 56	25. TOTAL \$47,051.00
--	---	--------------------------

27a. QUANTITY IN COLUMN 20 HAS BEEN
 INSPECTED RECEIVED ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	c. DATE (YYYYMMDD)	d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
--	--------------------	---

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

f. TELEPHONE NUMBER	g. E-MAIL ADDRESS	31. PAYMENT <input type="checkbox"/> PARTIAL <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
--------------------	--

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.
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Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0014 EXERCISED OPTION	Engineering Electromagnetic Support CPIF	UNDEFINED	Cost	UNDEFINED	\$47,051.00

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3701). The contractor's proposal titled "Special Projects 1A EMC Support" dated 04 April 2014 is incorporated by reference.

Fee Percentages & Amounts:

Minimum [REDACTED]
 Target [REDACTED] *Bk*
 Maximum [REDACTED]

Period of Performance: May 01 2015 through April 30 2016

FOB: Destination

PURCHASE REQUEST NUMBER: DOSMC50078

TARGET COST	[REDACTED]
TARGET FEE	[REDACTED] <i>Bk</i>
TOTAL TGT COST + FEE	\$47,051.00
MINIMUM FEE	[REDACTED]
MAXIMUM FEE	[REDACTED] <i>Bk</i>
SHARE RATIO ABOVE TARGET	[REDACTED]
SHARE RATIO BELOW TARGET	[REDACTED]

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
001401	Cost Funding CLIN 0014 CPIF	UNDEFINED		UNDEFINED	\$0.00

The purpose of this SUBCLIN is to provide cost funding for CLIN 0014 (DOSMC50078).
FOB: Destination

TARGET COST	UNDEFINED
TARGET FEE	UNDEFINED
TOTAL TGT COST + FEE	\$0.00
MINIMUM FEE	\$0.00
MAXIMUM FEE	\$0.00

SHARE RATIO ABOVE TARGET
SHARE RATIO BELOW TARGET

ACRN AA
CIN: DOSMC50078001401

 *SP*

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
001402	Fee Funding CLIN 0014 CPIF	UNDEFINED		UNDEFINED	\$0.00

The purpose of this SUBCLIN is to provide fee funding for CLIN 0014 (DOSMC50078).
FOB: Destination

TARGET COST	UNDEFINED
TARGET FEE	UNDEFINED
TOTAL TGT COST + FEE	\$0.00
MINIMUM FEE	\$0.00
MAXIMUM FEE	\$0.00

SHARE RATIO ABOVE TARGET
SHARE RATIO BELOW TARGET

ACRN AA
CIN: DOSMC50078001402

 *SP*

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1014 OPTION	Engineering Electromagnetic Support CPIF	UNDEFINED	Cost	UNDEFINED	[REDACTED] PK

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3701). The contractor's proposal titled "Special Projects 1A EMC Support" dated 04 April 2014 is incorporated by reference.

Fee Percentages & Amounts:

Minimum [REDACTED]

Target [REDACTED] PK

Maximum [REDACTED]

Period of Performance: May 01 2016 through September 21 2016

FOB: Destination

TARGET COST	[REDACTED] PK
TARGET FEE	[REDACTED] PK
TOTAL TGT COST + FEE	\$44,298.00
MINIMUM FEE	[REDACTED]
MAXIMUM FEE	[REDACTED] PK
SHARE RATIO ABOVE TARGET	[REDACTED]
SHARE RATIO BELOW TARGET	[REDACTED]

Section C - Descriptions and Specifications

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

Contract Number:	HC1047-07-D-0001
JSC Tracking Number:	T3701
Task Order Number:	0990

Order	Type of Task	<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	E3, SM, EMC	

1. Contracting Officer Representative (COR).

a. Primary COR.

Name:	BC
Organization:	DISA/DSO/JSC/I3
Department of Defense Activity Address Code (DODAAC):	H98294
Address:	2004 Turbot Landing, Annapolis, MD 21402
Phone Number:	BC
Fax Number:	
E-Mail Address:	BC

b. Alternate COR.

Name:	BC
Organization:	DISA/DSO/JSC/I3
DODAAC:	H98294
Address:	2004 Turbot Landing, Annapolis, MD 21402
Phone Number:	BC
Fax Number:	
E-Mail Address:	BC

2. Task Order (TO) or Contract Title. Special Projects 1A EMC Support

3. Background. The Joint Spectrum Center (JSC) has been requested to provide electromagnetic interference resolution and measurement support for the sponsor on an ad-hoc basis.

4. Objectives: Provide electromagnetic interference resolution and measurement support to the project sponsor and their contractors on an as-needed basis.

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

- Operational Spectrum Support – deploying qualified spectrum managers in support of Combatant Command (CCMD) or Joint Task Force (JTF) contingencies; deploying technical experts to take field measurements and analyze incidents of electromagnetic interference (EMI), determine causes, and

recommend methods of resolution; and developing, operating, and maintaining DoD's standard spectrum management systems.

- 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. This PWS addresses the requirements for Special Projects 1A EMC Support. Support will include but is not limited to the following:

- Provide frequency assignment and equipment characteristics data for a wide variety of domestic and foreign RF communications and radar systems from JSC and intelligence community sources, to be used by the sponsor's analysis team
- Perform EMC analyses
- Perform propagation analyses and generate graphical representations of signal levels
- Provide measurement and analysis support in mitigating and resolving RF interference to and from sponsor systems

Deliverables: EMC products including frequency assignment and equipment characteristic data products on CD/DVD, RF propagation products, and RF interference resolution reports as needed.

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

Performance Standard	Acceptable Quality Level (AQL)	Method of Surveillance
EMC Products	<u>Technical Requirements:</u> 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.	Routine inspection of delivered product.

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. Task Order 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 JSC government facility, 2004 Turbot Landing Annapolis, MD, with occasional travel in support of the individual tasks. 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. Contractor employees may be required to work at home, another approved activity within the local travel area or at the contractor's facility in cases of unforeseen conditions or contingencies (e.g., pandemic conditions, exercises, etc.). Any equipment such as laptops or phones provided to Contractor personnel shall be returned at the termination of the engagement or at another time mutually agreeable to both parties. COR approval is required. 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 SOW/PWS. In the event the services are impacted, reduced, compromised, etc., the Contracting Officer or the contractor may request an equitable adjustment.

10. Period of Performance. The period of performance will be 12 months from the start of this TO with two 12 month options. While these can be consecutive 12 month periods, the government reserves the right to exercise options at any point in the period of performance.

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.

SOW Task#	Deliverable Title	Format	Due Date	Distribution Copies	Frequency and Remarks
6	EMC Products	Determined by sponsor	Daily/As required	JSC J3	Daily/As required

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

13. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI). The DSO will provide any GFI necessary to perform daily duties within the limitation of the contract and DoD security guidelines. The DSO 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 upon final completion of this project.

14. Other Pertinent Information or Special Considerations.

a. Identification of Possible Follow-on Work. The requirement for follow-on work will be addressed with a modification to this TO PWS or the issuance of a new PWS, at the discretion of the JSC.

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 Contracting Officer 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. Not Applicable

16. External Support. Not Applicable

17. Software Purchase. Any software to be purchased to be used on DISANet 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
- Task Order Number
- Task Monitor
- Vendor Point of Contact Information
- License type, Number of licenses
- Estimated and Final License cost

All Software purchases that will not be used on DISANet will be validated and approved by the JSC J3 or the COR of this PWS.

18. Pricing Information. Information to be provided by the contractor. Each task must be individually priced to include total labor hours, labor hours and cost broken out by labor categories, travel, purchases, etc.

Section F - 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
1014	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0014	POP 01-MAY-2015 TO 30-APR-2016	N/A	DISA JOINT SPECTRUM CENTER <i>BC</i> 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 <i>BC</i> FOB: Destination	H98294
001401	N/A	N/A	N/A	N/A
001402	N/A	N/A	N/A	N/A
1014	POP 01-MAY-2016 TO 21-SEP-2016	N/A	DISA JOINT SPECTRUM CENTER <i>BC</i> 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 <i>BC</i> FOB: Destination	H98294

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 255020 DOSMC50078
AMOUNT: \$43,554.01
CIN DOSMC50078001401: [REDACTED] BK
CIN DOSMC50078001402: [REDACTED] BK

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

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

Contract Specialist

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

Customer/COR/TM Point of Contact

Name: BK
Organization/Office Symbol: DISA/Defense Spectrum Organization (DSO) JSC/J3
Phone No.: BK
E-Mail Address: BK

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 REFERENCE

52.217-8	Option To Extend Services	NOV 1999
52.217-9	Option To Extend The Term Of The Contract	MAR 2000
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984

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: *BL*
 E-mail:

(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.