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		ORDER I	FOR SUPE	PLIES OF	SERVIO	JES			İ	PAGE 1 OF	10
I. CONTRACT/PURCH, ORDER AGREEMENT NO. HC1047-07-D-0001	<i>.</i> /	2. DELIVERY O	RDER/CALL NO	3. DATE OF (YYYYMM 2015 Mar		4. REQ./P	URCH.REQU	EST NO.	5. P	RIORITY	
6. ISSUED BY	COI	DE HC 1047	7 /	ADMINISTER	DED BY CC						
DISA/PL63 P.O. BOX 549 FORT MEADE MD 20755-0549			/ /	SEE ITE		ner than 6	i) CODI	E [DELIVERY X DESTINATION OTHER	NATIO
9. CONTRACTOR	COD	E 9M715		EACHER	/ 1	110.00	er neer oo eo				
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TYPE CALL	This delivery	order/call is issue	d on another Gov	ernment agency	or in accordance	with and su	bject to terms a	nd conditio	ns of above numb	ered contract.	
OF PURCHASE		rquote dated allowing on terms	rnecifed herein	DEC: T3784 4429	2014						
NAME OF CONTRACT If this box is marked, su 7. ACCOUNTING AND AP	FOR pplier must	SIT MAY PREDITIONS SET	SIGNAT U	IRE	PERFORM	THE SAM	E. YPED NAME			DATE S	
See Schedule			,00,10,000								
8. ITEM NO.	19. SCHE	DULE OF SUP	PLIES/ SERVI	ICES	20. QUANTITY ORDERED/ ACCEPTED* 21. UNIT 22. UNIT PRIC				T PRICE	23. AMO	UNT
		SEE SCH									
If quantity accepted by the Governmentity ordered, indicate by X. If a	tifferent, enter	as actual	TED STATES OF	6G					25. TOTAL	\$28,729	0.06
nuntity accepted below quantity of 7a. QUANTITY IN COLUM					COMINA	CIENG / O	1770 DMIREGRE	CER	26. DIFFERENCES		
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DATE b. SIGNATUR				ER	31. PAYME COMP	LETE			34. CHECK N	UMBER	
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RECEIVED AT 38. R	ECEIVED B	BY	39. DATE RI		40.TOTAL CONTAI	NERS 41	. S/R ACCOL	INT NO	42. S/R VOU	CHER NO.	
Form 1155, DEC 2001		·		PREVIOUS	EDITION IS	OBSOLE	ГЕ.				

Section B - Supplies or Services and Prices

CIN: DOSMC500750013

OO13 EXERCISED OPTION	SUPPLIES/SERVICES Engineering Support on J FFP		UNIT Each	UNIT PRICE \$28,729.00	AMOUNT \$28,729.00
	Engineering Electromagne Engineering/E3 Analysis a (T3784). The contractor's Andrews with Exelis Corp FOB: Destination PURCHASE REQUEST 1	and support as spe- sproposal titled "V dated 03 Novemb	cified in Perfor erizon Wireles per 2014 is inco	mance Work Statement s on Joint Base	
110				NET AMT	\$28,729.00
	ACRN AA				\$28,729.00

Section C - Descriptions and Specifications

PWS

PERFORMANCE WORK STATEMENT (PWS) SPONSOR PROGRAM as 7/Oct/2014

Contract Number:		HC1047-07-D-0001							
JSC Tracking Number:		T3784							
Task Order Number:		0975							
Toma of Table O. I	Cost Plus In	centive Fee	(Check one box)						
Type of Task Order	Firm Fixed		(Double click on a box to check it.)						
Key Words			Andrews, E3 Analysis, RADHAZ, LTE, MSP						
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPONSO							
		Verizon Wi							
	!	9000 Junction							
		polis Junction							
		pona sunction	I, MD 20701						
1. Contracting Officer's Rep	resentative (COR)								
a. Primary COR.									
Name:		R6							
Organization:			n Center (JSC)/OS351						
Department of Defense A	ctivity								
Address Code (DODAA)	E):	H98294							
Address:		2004 Turbot Landing Annapolis, MD 21012-5064							
Phone Number:									
Fax Number:		. B6							
E-Mail Address:		-06							
b. Alternate COR.									
Name:		86							
Organization:	J.	SC/OS351							
DODAAC:		98294							
Address:		004 Turbot La	anding						
			21012-5064						
Phone Number:									
Fax Number:		0 -							
E-Mail Address:		66							

- 2. Task Order (TO) Title. Verizon Wireless on Joint Base Andrews E3 Analysis Support
- 3. <u>Background</u>. 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. I

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 three Long Term Evolution (LTE) systems on Joint Base (JB) Andrews, MD.

- 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. <u>Scope</u>. 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. <u>Performance Requirements</u>. 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 (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.

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

- Performance Standards. Not Applicable.
- 8. Incentives. Not Applicable.
- 9. <u>Place of Performance</u>. 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	10 Weeks after TO Award
Consulting Reports	4 weeks after the Results Memorandum is distributed

- 12. <u>Security.</u> Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETORY, 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. <u>Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI)</u>. 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. <u>Identification of Potential Conflicts of Interest (COI)</u>. 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 0013 Destination

INSPECT BY ACCEPT AT Government Destination

ACCEPT BY Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN DELIVERY DATE QUANTITY SHIP TO ADDRESS UIC

0013 POP 31-MAR-2015 TO N/A DISA JOINT SPECTRUM CENTER H98294
30-NOV-2015 2104 TURBOT LANDING
ANNAPOLIS MD 21402-5064
FE
FOB: Destination

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50075 AMOUNT: \$28,729.00 CIN DOSMC500750013: \$28,729.00 Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

252.232-7006

Wide Area WorkFlow Payment Instructions

MAY 2013

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name: Es,

Organization/Office Symbol: PL63

Phone No.:

BE

E-Mail Address:

136

Contract Specialist

Name:

BG

Organization/Office Symbol: PL63

Phone No.:

K

E-Mail Address: 86

Customer/COR/TM Point of Contact

Name:

86

Organization/Office Symbol: (JSC) OS351

Phone No.: &6

E-Mail Address:

36

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)

ORDER FOR SUPPLIES OR SERVICES										SE 1 OF	12
	la mare	RR/CALL	4 REO/PU	RCH REQUEST	NO	5 PRIO	RITY				
1.CONTRACT/PURCH.ORDE AGREEMENTNO. HC1047-07-D-0001	0978	IVERY ORDER/ CAI	LL NO.		(ҮҮҮҮМММОО)				ļ		
		IC 1047	BV (if oti	her than 6)	CODE						
6. ISSURD BY DISA/PL63 PO BOX 549 FORT MEADE MD 20755-05		io tuvi	1	SEE ITEM					X	8. DELIVERY FOB X DESTINATION OTHER (See Schedule if other)	
9. CONTRACTOR EXEUSING	CODE 96	47 15		FACILITY		SEES	LIVER TO FOB P TYYMMADD) SCHEDULE	OINTBY (I	Date) 11.MG	RK OF BUS SMALL SMALL	
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14. SHIP TO	CODE H9	8294	⊣	AYMENT WIL	L BE MA	DEBY	CODE HO013	<u> </u>	,	TARK AT	J.
SC 2104 TURBOT LANDING ANNAPOLIS MD 21402-506			P.O.	S-CO/JAQ N: CAPSW/ORP2 BOX 389018 UMBUS OH 43236	3-9016				PAG PA IDE N	MARKALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS I AND 2.	
16. DELIVERY/	This delivery order	call is issued on mot	her Gov	emment agency or i	n accordan	e with and s	nbject to terms and	conditions	ofabove numbe	red contract	
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27a QUANTITY IN CO	LUMN 20 HAS BE										
b. SIGNATURE OF AUT					c. DATI	E (MMDD)	d. PRINTED	NAME AI	ND TITLE O	F AUTHO B	RIZED
e. MAILING ADDRESS	OF AUTHORIZED	GOVERNMENT	REPRI	ESENTATIVE	28. SHIP	NO.	29. DO VOUC		30. INITIALS		
f. TELEPHONE NUMB	ER g. E-MAIL	ADDRESS			1 1	RTIAL NAL	32. PAID BY		33. AMOUN CORRECT F		ED
36. I certify this accou	nt is correct and	i proper for pay	ment.	-	31. PAY		•	:	34. CHECK	NUMBER	
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\$72,423.00

Section B - Supplies or Services and Prices

ACRN AA

CIN: DOSMC500970013

ITEM NO	SUPPLIES/SERVICES	MAX	UNIT	UNIT PRICE	MAX AMOUNT
0013	Engineering Electromagne FFP Electromagnetic Spectrum the Performance Work Sta "AT&T Mobility on Fort S	Engineering/E3 / tement (T3774).	The contractor	s proposal titled	\$72,423.00
	incorporated by reference. FOB: Destination PURCHASE REQUEST N	·			
				MAX	\$72,423.00

NET AMT

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT

PERFORMANCE WORK STATEMENT (PWS) SPONSOR PROGRAM as of 3/Sept/2014

			1							
	Contract Number:			HC1047-07-D-0001 T3774						
	JSC Tracking Number:		T3774							
	Task Order Number:									
			Cost Plus							
	Type of Task	Incenti	ve Ree	(Check one box)						
				· ·						
	Order	1	∑ Firm Fixed	(Double click on a box to check it.)						
		Price								
	Key Words		AT&T Mobility, I	Fort Stewart, E3 Analysis, RADHAZ,						
	Key words	PCS, L	ΓE, WCS, MSP							
			SPO	NSOR						
			AT&T Mobilit	y LLC						
			660 Hembree P							
			Rosewell, GA	30076						
	Contracting Officer's Reprimary COR.	n eschiative	(CON)							
	Name:		86							
	Organization:		Joint Spectrum	Joint Spectrum Center (JSC)/J8						
	Department of Defense		H98294	1100204						
	Address Code (DODAA	.C):								
	Address:			2004 Turbot Landing						
				Annapolis, MD 21012-5064						
	Phone Number: Fax Number:	·	B6	2						
	E-Mail Address:		(410) 293-9268							
l	E-Mail Address:	****	SE							
b.	Alternate COR.									
	Name:									
	Organization:									
	DODAAC:									
	Address:									
	Phone Number:									
- 1	Fax Number:									
- 1	E-Mail Address:									

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

3. <u>Background</u>. 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.

AT&T Mobility, hereafter referred to as the purchaser, has requested permission to install and operate a Personal Communications Service (PCS) system, a Cellular Telephone System (CTS), three Long Term Evolution (LTE) systems, and a Wireless Communications Service (WCS) system on two sites at Fort Stewart.

- 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. <u>Scope</u>. 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. <u>Performance Requirements</u>. The contractor shall provide E3 and RADHAZ analyses of the proposed installation. The results of the analysis will be documented in a memorandum followed by a Consulting Report (CR).
- 6.1 Task 1 E3 Analysis.

¹ Anthony M. Valletta, OASD (C31) Memorandum to Secretaries of the Military Departments, et al., Subject: *Placement of Commercial Telecommunications Services on Federal Property*, Washington, DC: Assistant Secretary of Defense, Command, Control, Communications, and Intelligence, 15 December 1997.

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, CTS, WCS, and LTE base station transmit frequency bands) and assignments for systems within 30 miles, operating in second and third harmonically related frequency bands. FCC assignments for systems within 10 miles operating in co channel, adjacent-channel, or second and third harmonically related frequency bands, will also be identified. The 75 mile radius will be used to include C-E equipment at other DoD and government facilities that could possibly receive signals from the proposed commercial transmitters.

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

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

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

For systems not eliminated in the conservative analysis, the 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. <u>Place of Performance</u>. 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 Tasks and Deliverables							
Title	Schedule of Deliverables						
Results Memorandum	20 Weeks after Task Order Award						
Consulting Reports	4 weeks after the Results Memorandum is distribute						

12. <u>Security</u>. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETORY, 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. <u>Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI)</u>. 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. <u>Identification of Potential Conflicts of Interest (COI)</u>. 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 0013 Destination

INSPECT BY ACCEPT AT Government Destination

ACCEPT BY Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN DELIVERY DATE QUANTITY SHIP TO ADDRESS UIC

0013 POP 24-APR-2015 TO N/A DISA JOINT SPECTRUM CENTER H98294
23-DEC-2015 2104 TURBOT LANDING
ANNAPOLIS MD 21402-5064
FOB: Destination

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50097 AMOUNT: \$72,423.00 CIN DOSMC500970013: \$72,423.00

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name:

66

Organization/Office Symbol:

PL63

Phone No.:

E-Mail Address:

66

Contract Specialist

Name:

66

Organization/Office Symbol:

PL63

Phone No.:

E-Mail Address:

66

Customer/COR/TM Point of Contact

Name:

Organization/Office Symbol:

Defense Spectrum Organization/JSC/OS351

Phone No.:

E-Mail Address:

56

Contractor Point of Contact

Contractor Legal Business Name:

DUNS:

Exelis 083655498

CAGE CODE:

9M715

Contractor POC:

Anne Hässelbrack

E-Mail Address:

anne.hasselbrack@exelisinc.com

Phone Number:

301.867.2985

Technical POC:

Michael Hayes

E-Mail Address:

Michael.hayes@exelisinc.com

Phone Number:

301.867.2956

(End of clause)

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 Central Contractor Registration 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.

GOVERNMENT

(Contracting Officer: Insert inspection and acceptance locations or "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	<u>N/A</u>
Mark For Code	<u>N/A</u>
Service Approver (DoDAAC)	H98294

Service Acceptor (DoDAAC)		H98294
Accept at Other DoDAAC	N/A	_
LPO DoDAAC		<u>N/A</u>
DCAA Auditor DoDAAC		N/A
Other DoDAAC(s)		<u>HAA031</u>

(*Contracting Officer: Insert applicable DoDAAC information or "See schedule" if multiple ship to/acceptance locations apply, or "Not applicable.")

(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.

BG

(g) WAWF point of contact.

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

Reference clause 52.204-9000, Point of Contact, for Contracting Officer, Contract Specialist, Customer/COR/ and Contractor Point of Contact Information.

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

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Section B - Supplies or Services and Prices

MAX AMOUNT **UNIT PRICE** UNIT SUPPLIES/SERVICES MAX ITEM NO QUANTITY UNDEFINED \$55,223.00 UNDEFINED Labor 0014 Hours EXERCISED **CPIF** Engineering Support OPTION **CPIF**

> Electromagnetic Spectrum Engineering services as specified in the Performance Work Statement (PWS). The contractor's proposal titled "EMC Study for SMDC Microwave Links" dated: 15 August 2014 is incorporated by reference.

Fee Percentages & Amounts:

Minimum 84 Target -Maximum

Period of Performance: April 06 2015 through January 05 2016

FOB: Destination

PURCHASE REQUEST NUMBER: DOSMC50091

TARGET COST TARGET FEE \$55,223.00

TOTAL TGT COST + FEE

MAXIMUM FEE

\$0.00 MINIMUM FEE \$0.00

SHARE RATIO ABOVE TARGET SHARE RATIO BELOW TARGET

HC1047-07-D-0001 0979 Page 3 of 13

\$0.00

ITEM NO SUPPLIES/SERVICES MAX UNIT **UNIT PRICE MAX AMOUNT** QUANTITY 001401 UNDEFINED **UNDEFINED** \$0.00 Funding For CLIN 0014 **CPIF** The purpose of this SUBCLIN is to provide cost funding for CLIN 0014 via MIPR DOSMC50091. FOB: Destination TARGET COST **UNDEFINED** TARGET FEE UNDEFINED \$0.00 TOTAL TGT COST + FEE MINIMUM FEE \$0.00 MAXIMUM FEE \$0.00 SHARE RATIO ABOVE TARGET SHARE RATIO BELOW TARGET ACRN AA CIN: DOSMC50091001401 ITEM NO SUPPLIES/SERVICES UNIT MAX**UNIT PRICE** MAX AMOUNT **QUANTITY** 001402 **UNDEFINED UNDEFINED** \$0.00 Funding For CLIN 0014 **CPIF** The purpose of this SUBCLIN is to provide fee funding for CLIN 0014 via MIPR DOSMC50091. FOB: Destination **TARGET COST UNDEFINED** TARGET FEE UNDEFINED \$0.00 TOTAL TGT COST + FEE MINIMUM FEE \$0.00

MAXIMUM FEE

SHARE RATIO ABOVE TARGET SHARE RATIO BELOW TARGET

ACRN AA

CIN: DOSMC50091001402

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT (PWS) SPONSOR PROGRAM As of 23 July 2014

Contract Number:	HC1047-07-D-0001	HC1047-07-D-0001			
JSC Tracking Number:	T3755				
Task Order Number:	0979				
•					
Town of Tools Order	Cost Plus Incentive Fee				
Type of Task Order	Firm Fixed Price				
Key Words	SMDC, SMDBL, Tysons Corner, Suitland, Mark Center				
	SPONSOR				
	Space & Missile Defense Command				
	SMDC-FWB-I	!			
	Martin Road, Building 5220				
	Redstone Arsenal, AL 35898-0001				

- 1.
- a. Primary COR.

Name:	R/L
Organization:	DISA DSO Joint Spectrum Center (JSC)
Department of Defense Activity Address Code (DODAAC):	Н98294
Address:	DISA DSO JSC-OS351 2004 Turbot Landing Annapolis, MD 21402-5064
Phone Number:	86
Fax Number:	(410) 293-9268
E-Mail Address:	86

b. Alternate COR.

Name:	ВС	
Organization:	DISA DSO JSC	
DODAAC:	H98294	
Address:	DISA DSO JSC-OS351 2004 Turbot Landing Annapolis, MD 21402-5064	
Phone Number:	86	
Fax Number:	(410) 293-9268	
E-Mail Address:	\$6	

- 2. Contract or Task Order (TO) Title. EMC Study for SMDC Microwave Links
- 3. <u>Background</u>. The US Army Space and Missile Defense Command (SMDC) is the Army Service Component to the US Strategic Command. SMDC missions are global in nature and provide space operations, information

operations, global strike, integrated missile defense, etc. The SMD Battle Lab (SMDBL) links the technologist and the warfighter through experiments simulating modern battlefield conditions using computer simulations, interfaces and networks.

SMDBL requested approval from the Fort Belvoir-Network Enterprise Center (FB-NEC) to install and operate four microwave (MW) systems on the Tysons Corner, VA Corps of Engineers (COE) tower and one MW system on the Suitland, MD COE tower. The FB-NEC has jurisdictional responsibility for multiple Federal government communications sites in the National Capital Region (NCR), including the COE towers in Tysons Corner and Suitland. SMDBL also requested approval from the Washington Headquarters Services Facilities Directorate, Leased Facilities Division, Fort Belvoir Mark Center Building Management Office (FBMCBMO) to install and operate two MW systems on the existing platform mast mounted on the roof of the Mark Center (East), Alexandria, VA. The FBMCBMO is responsible for managing all radio frequency (RF) devices on the Mark Center buildings. All of the proposed MW systems will have transmit/receive capabilities and will operate in the C-band.

A two-way electromagnetic compatibility (EMC) analysis will be completed prior to approval of the installation of the proposed MW systems at the aforementioned three site locations. This analysis will predict if there will be any unacceptable interference either to or from the proposed MW systems and the existing RF systems on the towers and also in the electromagnetic environment (EME), as defined below. The analysis results will be provided in two separate Results Memorandums followed by two separate consulting reports (CR) - one each for Tysons Corner, VA and Suitland, MD, and one each for the Mark Center, Alexandria, VA.

- 4. Objective. The objective of this TO is to provide an EMC analysis of MW systems proposed for installation on the COE towers in Tysons Corner, VA and Suitland, MD and on the existing platform mast on the roof of the Mark Center (East), Alexandria, VA.
- 5. <u>Scope</u>. This PWS addresses tasking to be performed by the Electromagnetic Spectrum Engineering Services (ESES) contractor in the areas of:
 - Electromagnetic Environmental Effects (E3) and Spectrum Engineering –analyzing equipment and systems
 for potential E3 problems and recommending solutions; performing RF measurements as needed; assisting
 the acquisition community by assessing E3;
 - Technical Advice analyzing electromagnetic spectrum issues and advising decision-makers on the technical viability of policy and implementation options.
- 6.1 <u>Task 1 EMC Analysis Support</u>. Perform an EMC analysis to identify any potential interference issues between the proposed MW systems and existing environmental RF systems on the above identified towers/roof mast and in the EME. Several telecons with the FB-NEC, FBMCBMO, and/or sponsor may be required. The proposed systems will operate with existing environmental RF systems both in-band and out-of-band, in geographical proximity to each other, and may have to operate simultaneously to achieve their mission goals.

The analysis will utilize linear and non-linear techniques to determine the potential for in-band, adjacent band, harmonically-related, and intermodulation (IM) interference. For the analysis of linear EMI effects, the EME shall include FRRS, GMF, and FCC frequency assignments for systems within 50 km of each of the proposed sites operating in co-channel, adjacent-channel (defined as within plus/minus 20 MHz of the proposed MW systems transmit/receive frequencies), and and second/third harmonically-related frequency bands. For the analysis of IM effects, a 4 km radius shall be used to identify all military, government, and commercial systems with frequency assignments between 300 MHz and 30,000 MHz.

For systems not eliminated as potential sources or victims of interference during the analysis, the contractor will conduct a more detailed analysis using techniques to predict on-tune undesired power levels considering the effects of transmitter power levels, harmonic levels, additional filtering in the transmit path, receiver antenna gain, etc. 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 specific modulation types involved in interference interactions. The analysis will include recommended techniques to mitigate any potential EMI issues that are identified during the analysis.

Deliverables: Two Results Memorandums

Two DSO CRs

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

Performance Standard	Acceptable Quality Level (AQL)	Method of Surveillance
Task 6.1 – Results Memorandums, CRs	Technical Requirements: Percentage of technical requirements contained in the PWS that were met by the contractor. In addition, the deliverables must be complete and free from major technical errors before being accepted by the government. Meeting 95% of the requirements and being complete and free of major technical errors is an AQL. At most, reports should contain only minor technical errors that, although they are minor, require fixing prior to delivering the final product to a sponsor. These technical errors should have no, or a very minor impact on the final conclusions drawn in the reports. Material in the reports must be presented in a logical easy to read, and unambiguous manner. All relevant data must be included in the reports. Conclusions must be fully supported by data and information in the reports. The reports must be accurate. Reports should reflect innovative solutions or unique insights to resolve problems. Information and graphics must be presented in a pleasing and professional format.	Routine inspection of delivered product.
	Reports must not require multiple returns to the contractor for editorial rework prior to being accepted by the DSO, user, or sponsor. Reports must be organized so that a typical reader can follow the flow of information in the report with figures and tables properly marked and easily read. The DSO approved report format should be used unless other provisions are stipulated at the beginning of the task. Minimal report rework post-delivery is an AQL. Schedule Requirement: AQL is reports delivered on-time. The delivery date is the date the contractor provides the deliverables to the government. Cost Requirement: AQL is achieved when the cost charged to the TO for the product is equal to the target cost.	

8. <u>Incentives</u>. 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 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 An overall unsatisfactory technical quality score (1.00) equates to earning the minimum technical performance fee An overall exceptional technical quality score (5.00) equates to earning the maximum technical performance fee The range of performance scores and the associated percentage fee earned is presented in the following table.

Score		D - C	Percent Fee			
Min	Max	Performance -	Min	Max		
1.00	1.49	Unsatisfactory				
1.50	2.49	Marginal	57	المر		
2.50	3.49	Satisfactory	^	<u> </u>		
3.50	4.49	Very Good				
4.50	5.00	Exceptional				

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

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

- 9. Place of Performance. The primary place of performance will be the ESES contractor facility, Bowie, MD with possible local travel to DSO facilities and within the National Capitol Region. The DSO sites are 2004 Turbot Landing, Annapolis, MD and 6916 Cooper Avenue, Fort George G. Meade, MD 20755-7901. 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.
- 10. Period of Performance. 240 calendar days from the start of the TO.

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.

PWS Task#	Defiverable Title	Format	Due Date*	Distribution Copies	Frequency and Remarks
6.1	Technical Approach Review (TAR)	MS PowerPoint presentation	15 days after TO award	Copy to COR	Once
6.1	Results Memorandums	MS Word	60 days after TO award	Copy to COR	Once
6.1	DSO CRs	Per DSO-HDBK- 13-095	120 days after TO award	Standard distribution of final CRs**	Once

*Calendar days

- 12. <u>Security</u>. Work performed under this TO may include the following classifications of work: UNCLASSIFIED, PROPRIETARY, FOR OFFICIAL USE ONLY, CONFIDENTIAL, and SECRET. A SECRET clearance will be required to perform the analysis. A meeting may be held where individuals are required to share data and gather information in a classified SECRET environment. Individuals working on this TO must be have and maintain a SECRET Clearance.
- 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. <u>Identification of Possible Follow-on Work</u>. Any additional tasking or increase/change in scope of work requested by the sponsor will be identified in a subsequent revision to the PWS. Follow-on support to the sponsor is not anticipated.

^{**}Standard Distribution: 1 copy of the transmittal letter <u>without the deliverable</u> to the Contracting Officer (KO); 1 copy of the transmittal letter <u>with the deliverable</u> to the Primary COR.

- b. <u>Identification of Potential Conflicts of Interest (COI)</u>. The contractor shall identify any possible organizational conflict of interest (OCI) as defined in Subpart 9.5 of the Federal Acquisition Regulation. If there is an OCI, the contractor must inform the KO and COR and provide an OCI Mitigation Plan that identifies how the OCI is to be mitigated.
 - c. <u>Identification of Non-Disclosure Requirements</u>. 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. <u>Pricing Information</u>. 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.
- 18. <u>Software Purchase</u>. Any software to be purchased as a result of the implementation of this PWS shall be approved by the DSO Production Configuration Control Board (CCB) prior to the purchase. Requests shall be submitted not later than 10 business days prior to the intended purchase date. No software purchases may be made without the expressed approval by the DSO Production CCB. The content of this request shall include:

Software Vendor

Software Product/Version

Software Domain (e.g., Government off the Shelf, Commercial off the Shelf, Public Domain)

Software Function

DSO Organization: Division and Branch

TO Number

COR

Vendor Point of Contact Information License type, Number of licenses Estimated and Final License cost Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0014	Destination	Government	Destination	Government
001401	N/A	N/A	N/A	Government
001402	N/A	N/A	N/A	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0014	POP 06-APR-2015 TO 05-JAN-2016	N/A	DISA JOINT SPECTRUM CENTER LE 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064 EE FOB: Destination	H98294
001401	N/A	N/A	N/A	N/A
001402	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 255020 DOSMC50091 AMOUNT: \$55,223.00 CIN DOSMC50091001401: CIN DOSMC50091001402:

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer Name:

Organization/Office Symbol: PL63

Phone No.: BC E-Mail Address: BC

Contract Specialist Name:

Organization/Office Symbol: PL63

Phone No.: && E-Mail Address: &&

Customer/COR/TM Point of Contact

Name &

Organization/Office Symbol: Defense Spectrum Organization/JSC/OS351

Phone No.: 86 E-Mail Address: 86

Contractor Point of Contact Contractor Legal Business Name: ITT

DUNS: 083655498 CAGE CODE: 9M715

Contractor POC: Anne Hasselbrack

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

Phone Number: 301.867.2985

Technical POC: Michael Hayes

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

(End of clause)

Section 1 - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

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

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

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

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

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

- (b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.
- (c) WAWF access. To access WAWF, the Contractor shall--
- (1) Have a designated electronic business point of contact in the System for Award Management at https://www.acquisition.gov; and
- (2) Be registered to use WAWF at https://wawf.eb.mil/ following the step-by-step procedures for self-registration available at this Web site.
- (d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at https://wawf.eb.mil/.
- (e) WAWF methods of document submission. Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.
- (f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:
- (1) Document type. The Contractor shall use the following document type(s). Invoice.
- (2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

 Not applicable.
- (3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0131
Issue By DoDAAC	HC1047
Admin DoDAAC	HC1047
Inspect By DoDAAC	H98294
Ship To Code	H98294
Ship From Code	
Mark For Code	
Service Approver (DoDAAC)	H98294
Service Acceptor (DoDAAC)	H98294
Accept at Other DoDAAC LPO DoDAAC DCAA Auditor DoDAAC	
Other DoDAAC(s)	

- (4) Payment request and supporting documentation. The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.
- (5) WAWF email notifications. The Contractor shall enter the email address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

Name: E-mail:

(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.

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Section B - Supplies or Services and Prices

ITEM NO 0013

SUPPLIES/SERVICES

QUANTITY

UNIT Each UNIT PRICE \$63,245.00

AMOUNT \$63,245.00

EXERCISED OPTION

ATT Ft Polk Option Year 6

FFP

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3788). The contractor's proposal titled "AT&T on Fort Polk E3 Analysis Support" dated 5 November 2014 is incorporated by reference.

Period of Performance: March 31, 2015 through November 30 2015

FOB: Destination

PURCHASE REQUEST NUMBER: DOSMC50082

NET AMT

\$63,245.00

ACRN AA

CIN: DOSMC500820001

\$63,245.00

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT

PERFORMANCE WORK STATEMENT (PWS) SPONSOR PROGRAM

		as of 15/Oct/	2014	
Contract Number:	E. C.	HC1047-07-D-0001		
JSC Tracking Number:	7	T3788		
Task Order Number:				
Type of Task Order	Cost Plus Inc	entive Fee	(Check one box)	
	Firm Fixed P	rice	(Double click on a box to check it.)	
Key Words	AT&T, Fort Polk,	E3 Analysis	, RADHAZ, CTS, AWS, PCS, LTE, WCS, MSP	
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		AT&T		
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		Metairie, LA	70002	
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Address Code (DODAA		H98294		
Address:		004 Turbot L	anding	
	A	nnapolis, MI	D 21012-5064	
Phone Number:				
Fax Number:	(4	110) 293-926	8	
E-Mail Address:				
4.b. / COD				
Alternate COR.				
Name:		86		
Organization:		Joint Spectrum Center (JSC)/J8		
DODAAC:	H	98294		
Address: 2004 Turbot Landing				
	A.		21012-5064	
Phone Number:		BE		
Fax Number:	(4	10) 293-9268		
E-Mail Address:				
Task Order (TO) Title. A	T&T on Fort Polk E3	Analysis Su	pport	

- 2.
- 3. <u>Background</u>. 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 (ClO) [formerly the Assistant Secretary of Defense for Command, Control, Communications, and

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Enclosure 4a, PWS Page 1 of 4 Pages 20Mar2014/Version 3

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.

AT&T, hereafter referred to as the purchaser, has requested permission to install and operate a Cellular Telephone System (CTS), a Personal Communications Service (PCS) system, a Long Term Evolution (LTE) system, an Advanced Wireless Services (AWS) system, and a Wireless Communications Service (WCS) system on two sites at Fort Polk.

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

6.1 Task 1 - E3 Analysis.

Preliminary information from the 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 CTS, AWS, PCS, WCS, and LTE base station transmit frequency bands) and assignments for systems within 30 miles, operating in second and third harmonically related frequency bands. FCC assignments for systems within 10 miles operating in co channel, adjacent-channel, or second and third harmonically related frequency bands, will also be identified. The 75 mile radius will be used to include C-E equipment at other DoD and government facilities that could possibly receive signals from the proposed commercial transmitters.

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

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Enclosure 4a, PWS Page 2 of 4 Pages 20Mar2014/Version 3

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. <u>Place of Performance</u>. 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

Anthony M. Valletta, OASD (C3I) Memorandum to Secretaries of the Military Departments, et al., Subject: Placement of Commercial Telecommunications Services on Federal Property, Washington, DC: Assistant Secretary of Defense, Command, Control, Communications, and Intelligence, 15 December 1997.

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.

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Enclosure 4a, PWS Page 3 of 4 Pages 20Mar2014/Version 3

11. Delivery Schedule.

Schee	dule of Tasks and Deliverables
Title	Schedule of Deliverables
Results Memorandum	18 Weeks after Task Order Award
Consulting Reports	4 weeks after the Results Memorandum is distributed

- 12. <u>Security</u>. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETORY, 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. <u>Identification of Potential Conflicts of Interest (COI)</u>. 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. $\underline{Identification\ of\ Non-Disclosure\ Requirements}.\ Not\ applicable.$
 - 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.

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Enclosure 4a, PWS Page 4 of 4 Pages 20Mar2014/Version 3 Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN 0013 INSPECT AT

Destination

INSPECT BY Government

ACCEPT AT Destination

ACCEPT BY Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

30-NOV-2015

CLIN DELIVERY DATE QUANTITY SHIP TO ADDRESS UIC

0013 POP 01-APR-2015 TO N/A DISA JOINT SPECTRUM CENTER H98294

2104 TURBOT LANDING ANNAPOLIS MD 21402-5064

FOB: Destination

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50082 AMOUNT: \$63,245.00

CIN DOSMC500820001: \$63,245.00

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

252.201-7000

Contracting Officer's Representative

DEC 1991

CLAUSES INCORPORATED BY FULL TEXT

52.204-9000 Points of Contact (AUG 2005)

Contracting Officer

Name BC

Organization/Office Symbol: DISA/PL63

Phone No.: 86

E-Mail Address: 66

Contract Specialist

Name:

86

Organization/Office Symbol: DISA/ PL63

Phone No.:

E-Mail Address:

Customer/COR/TM Point of Contact

6

Organization/Office Symbol: Defense Spectrum Organization JSC/OS35

Phone No.:

66

E-Mail Address:

Contractor Point of Contact

Contractor Legal Business Name: Exelis, Inc.

DUNS: 083655498

CAGE CODE: 9M715

Contractor POC: Anne Hasselbrack

E-Mail Address: anne.hasslebrack@exelisinccom

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	HO0131
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)	Н98294
Service Acceptor (DoDAAC)	H98294
Accept at Other DoDAAC	N/A
LPO DoDAAC	N/A
DCAA Auditor DoDAAC	N/A

Other	DoD	AA	C	S
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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 6

(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.

Not Applicable

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

(End of clause)

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Section B - Supplies or Services and Prices

ITEM NO 0013 EXERCISED SUPPLIES/SERVICES

QUANTITY 1

UNIT Each

UNIT PRICE \$17,956.00

AMOUNT \$17,956.00

OPTION

T-Mobile Tyndall AFB Option Year 6

FFP

Electromagnetic Spectrum Engineering/E3 Analysis and support as specified in the Performance Work Statement (T3790). The contractor's proposal titled "New Cingular Wireless on Fort Campbell E3 Analysis Support" dated 3 December 2014 is incorporated by reference.

Period of Performance: March 31, 2015 through November 30 2015

FOB: Destination

PURCHASE REQUEST NUMBER: DOSMC50083

NET AMT

\$17,956.00

ACRN AA

CIN: DOSMC500830013

\$17,956.00

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:	T3790		
Task Order Number:			
Type of Task Order	Cost Plus Incentive Fee	(Check one box)	
Type of Task Older	Firm Fixed Price	(Double click on a box to check it.)	
Key Words	T-Mobile, Tyndall AFB, E3 Ana	alysis, RADHAZ, AWS, MW, MSP	
	SPONSO	R	
	T-Mobile USA	A, Inc.	
	7025 AC Skinne	er Pkwy	
	Jacksonville, FL	. 32256	

a. Primary COR.

Name:	BL
Organization:	Joint Spectrum Center (JSC)/OS351
Department of Defense Activity Address Code (DODAAC):	Н98294
Address:	2004 Turbot Landing Annapolis, MD 21012-5064
Phone Number:	86
Fax Number:	(410) 293-9268
E-Mail Address:	

b. Alternate COR.

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

- 2. Task Order (TO) Title. T-Mobile on Tyndall AFB E3 Analysis Support
- 3. <u>Background</u>. 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. I

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Enclosure 4a, PWS Page 1 of 4 Pages 20Mar2014/Version 3

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

T-Mobile, hereafter referred to as the purchaser, has requested permission to install and operate an Advanced Wireless Services (AWS) and a Microwave (MW) system on Tyndall AFB, FL.

- 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. <u>Scope</u>. 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. <u>Performance Requirements</u>. 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 base station transmit frequency band and within ±10 MHz of the MW transmit frequency) 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.

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

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

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

The augmented frequency assignment data, along with the system characteristics of the introduced commercial telecommunications equipment, will be used to perform the EMI analysis. EMI analysis techniques will be used to

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Enclosure 4a, PWS Page 2 of 4 Pages 20Mar2014/Version 3

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. <u>Place of Performance</u>. 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. <u>Security</u>. Work performed under this TO will include the following classifications of work: UNCLASSIFIED, PROPRIETORY, 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

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Enclosure 4a, PWS Page 3 of 4 Pages 20Mar2014/Version 3 and gather information in a classified environment. Individuals must be able to obtain and maintain a SECRET Clearance.

- 13. <u>Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI)</u>. 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. <u>Identification of Potential Conflicts of Interest (COI)</u>. 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. <u>Identification of Non-Disclosure Requirements</u>. 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.

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Enclosure 4a, PWS Page 4 of 4 Pages 20Mar2014/Version 3 Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN 0013 INSPECT AT Destination

INSPECT BY Government ACCEPT AT Destination

ACCEPT BY

Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN DELIVERY DATE QUANTITY SHIP TO ADDRESS UIC

0013 POP 01-APR-2015 TO N/A DISA JOINT SPECTRUM CENTER H98294
30-NOV-2015 2104 TURBOT LANDING ANNAPOLIS MD 21402-5064
ESC FOB: Destination

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.5F20 000 C1013 0 068142 2F 257020 DOSMC50083 AMOUNT: \$17,956.00 CIN DOSMC500830013: \$17,956.00 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:

EL

Organization/Office Symbol: DISA/PI 63

Phone No.:

EL

E-Mail Address:

Contract Specialist

Name:

B6

Organization/Office Symbol: DISA/PL63

Phone No.

BE

E-Mail Address &

Customer/COR/TM Point of Contact

Name:

86

Organization/Office Symbol: JSC/OS351

Phone No.:

BC

E-Mail Address

Contractor Point of Contact

Contractor Legal Business Name: Exelis, Inc.

DUNS: 083655498

CAGE CODE: 9M715

Contractor POC: Anne Hasselbrack

E-Mail Address: anne.hasselbrack@exelfsinc.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).

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

Not Applicable

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

Routing Data Table*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0131
Issue By DoDAAC	HC1047
Admin DoDAAC	HC1047
Inspect By DoDAAC	H98294
Ship To Code	H98294
Ship From Code	N/A
Mark For Code	N/A
Service Approver (DoDAAC)	H98294
Service Acceptor (DoDAAC)	H98294
Accept at Other DoDAAC	N/A
LPO DoDAAC	N/A
DCAA Auditor DoDAAC	N/A

Other DoDAAC(s)

N/A

- (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 (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.

 EMAIL

 EMAIL

 EMAIL

 **The Contractor shall enter the email address identified below in the "Send Name".

 EMAIL

 EMAIL

 EMAIL

 **The Contractor shall enter the email address identified below in the "Send Name".

 Email

 **Email*

(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.

Not Applicable

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

(End of clause)