

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. Contract ID Code  
Cost Plus Fixed Fee

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2. Amendment/Modification No. P00051	3. Effective Date 2015FEB25	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By U.S. ARMY CONTRACTING COMMAND DARLA TREMBLAY WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL  EMAIL: DARLAMAE.D.TREMBLAY.CIV@MAIL.MIL	Code W56HZV	7. Administered By (If other than Item 6) DCMA HUNTSVILLE 1040 RESEARCH BLVD, SUITE 100 MADISON AL 35758-2040	Code S0107A
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8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  DRS TEST & ENERGY MANAGEMENT, LLC 110 WYNN DR NW HUNTSVILLE, AL 35805-1957	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-12-C-0199
	<input type="checkbox"/>	10B. Dated (See Item 13) 2012APR13
Code 24290	Facility Code 1RWE7	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers

is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. Accounting And Appropriation Data (If required)**

ACRN: BP NET INCREASE: \$170,981.54

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS  
It Modifies The Contract/Order No. As Described In Item 14.**

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).	
<input type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:	
<input checked="" type="checkbox"/>	D. Other (Specify type of modification and authority)	43.103(a)(3)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the Issuing Office.

**14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

SEE SECOND PAGE FOR DESCRIPTION

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name And Title Of Signer (Type or print)	16A. Name And Title Of Contracting Officer (Type or print) LISA BEHNKE LISA.M.BEHNKE.CIV@MAIL.MIL (586)467-6090		
15B. Contractor/Offeror  (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2015FEB25

**CONTINUATION SHEET****Reference No. of Document Being Continued**

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PIIN/SIIN W56HZV-12-C-0199

MOD/AMD P00051

**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

## SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: DARLA TREMBLAY  
Buyer Office Symbol/Telephone Number: CCTA-AHP-B/(586)467-6091  
Type of Contract 1: Cost Plus Fixed Fee  
Kind of Contract: Service Contracts  
Type of Business: Large Business Performing in U.S.  
Surveillance Criticality Designator: B  
Weapon System: Tank, M1 Abrams Family of Vehicles  
Contract Expiration Date: 2017APR13

\*\*\* End of Narrative A0000 \*\*\*

The purpose of modification P00051 to this contract is as follows:

1. Exercise 1,248 Option Period 2 hours for CLIN 7001CC as follows:

Level of Effort:	Hourly Rate	Hours	Extended
Estimated Cost:	*\$101.16	1,248	\$126,247.68
Fixed Fee:	*\$ 8.81	1,248	\$ 10,994.88
Estimated CPPF	*\$109.97	1,248	\$137,242.56

\*This rate represents a price reduction offered by DRS-TEM for Option Period 2. This reduced rate applies to CLINs 7001CC and 7001DA only.

0 Option Period 2 hours remain available to be exercised for CLIN 7001.

Work performed under CLIN 7001CC shall be performed IAW WD 7001CC/DA.

2. Exercise 34 Option Period 3 hours for CLIN 7001DA as follows:

Level of Effort:	Hourly Rate	Hours	Extended
Estimated Cost:	*\$101.16	34	\$3,439.44
Fixed Fee:	*\$ 8.81	34	\$ 299.54
Estimated CPPF	*\$109.97	34	\$3,738.98

\*This rate represents a price reduction offered by DRS-TEM for Option Period 3. This reduced rate applies to CLINs 7001CC and 7001DA only.

2,686 hours remain available to be exercised for CLIN 7001 during Option Period 3. Hours may be exercised from 31 March 2015 to 31 March 2016.

Work performed under CLIN 7001DA shall be performed IAW WD 7001CC/DA.

Hours under CLIN 7001DA are being exercised early as agreed to by all parties.

3. Exercise Option Period 2 for FSR travel. This travel CLIN is in support of CLINs 7001CC and 7001DA, System Technical Support for Embedded Diagnostics. CLIN 7001CD is hereby incorporated into this contract as a cost no fee travel CLIN in the amount of \$30,0000.

FSR travel is IAW WD 7001CC/DA.

4. CLINs 7001CC, 7001CD, and 7001DA are funded with PRON W156C40947.

5. Update Section H as follows:

Option Period 2 Travel CLIN for 7001 is changed from 7001AB to 7001CD. CD represents Option Period 2.

6. Added Work Directive 7001CC/DA as attachment 0070, to Section J of this contract.

7. All parties agree that the negotiated rates for CLINs 7001CC and 7001CD represent a complete negotiated settlement.

8. As a result of this modification, the dollar value of this contract increased by \$170,981.54, from \$38,549,469.45 to \$38,720,450.99.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-12-C-0199 <b>MOD/AMD</b> P00051	<b>Page</b> 3 <b>of</b> 18
<b>Name of Offeror or Contractor:</b> DRS TEST & ENERGY MANAGEMENT, LLC		

9. All other terms and conditions of this contract remain unchanged and in full force and effect.

\*\*\* END OF NARRATIVE A0049 \*\*\*

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Reference No. of Document Being Continued  
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Name of Offeror or Contractor: DRS TEST & ENERGY MANAGEMENT, LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT								
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS												
7001	USMC ED STS												
7001CC	<u>STS FOR USMC EMBEDDED DIAGNOSTICS IAW WD 7001CC/DA</u>	1	HR	Estimated									
				Cost	\$ 126,247.68								
				Fixed Fee	\$ 10,994.88								
				Not to Exceed									
				(Funding)	\$ 137,242.56								
	SERVICE REQUESTED: USMC ED STS CLIN CONTRACT TYPE: Cost Plus Fixed Fee PRON: W156C40947 PRON AMD: 01 ACRN: BP PSC: L025 CUSTOMER ORDER NO: M9545015MPBM956												
	Level of Effort: Hourly Rate Hours Extended Estimated Cost: *\$101.16 1,248 \$126,247.68 Fixed Fee: *\$ 8.81 1,248 \$ 10,994.88 Estimated CPFF *\$109.97 1,248 \$137,242.56												
	*This rate represents a price reduction offered by DRS-TEM for Option Period 2. This reduced rate applies to CLINs 7001CC and 7001DA only.												
	0 Option Period 2 hours remain available to be exercised for CLIN 7001.												
	(End of narrative B001)												
	<u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin												
	<u>Deliveries or Performance</u> Period of Performance Start Date: 25-FEB-2015 End Date: 04-OCT-2015												
	<table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>04-OCT-2015</td> </tr> </table>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	04-OCT-2015			
DLVR SCH		PERF COMPL											
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>											
001	1	04-OCT-2015											
	\$ 137,242.56												

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Name of Offeror or Contractor: DRS TEST & ENERGY MANAGEMENT, LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
7001CD	<p><u>TRAVEL CLIN OPTION PERIOD 2</u></p> <p>SERVICE REQUESTED: USMC ED STS TRAVEL CLIN                      CLIN CONTRACT TYPE:                      Cost No Fee                      PRON: W156C40947 PRON AMD: 01 ACRN: BP                      PSC: L025                      CUSTOMER ORDER NO: M9545015MPBM956</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      Period of Performance                      Start Date: 25-FEB-2015                      End Date: 23-OCT-2015</p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>23-OCT-2015</td> </tr> </table> <p style="text-align: right;">\$ 30,000.00</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	23-OCT-2015	1	LO	Estimated Cost Not to Exceed (Funding)	\$ 30,000.00 \$ 30,000.00
DLVR SCH		PERF COMPL												
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	1	23-OCT-2015												

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Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-12-C-0199 MOD/AMD P00051

Name of Offeror or Contractor: DRS TEST & ENERGY MANAGEMENT, LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
7001DA	<p><u>STS FOR USMC EMBEDDED DIAGNOSTICS IAW WD 7001CC/DA</u></p> <p>SERVICE REQUESTED: USMC ED STS                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee                      PRON: W156C40947 PRON AMD: 01 ACRN: BP                      PSC: L025                      CUSTOMER ORDER NO: M9545015MPBM956</p> <p>Level of Effort: Hourly Rate Hours Extended                      Estimated Cost: *\$101.16 34 \$3,439.44                      Fixed Fee: *\$ 8.81 34 \$ 299.54                      Estimated CPFF *\$109.97 34 \$3,738.98</p> <p>*This rate represents a price reduction offered by DRS-TEM for Option Period 3. This reduced rate applies to CLINs 7001CC and 7001DA only.</p> <p>Hours under CLIN 7001DA are being exercised early as agreed to by all parties.</p> <p>2,686 hours remain available to be exercised for CLIN 7001 during Option Period 3. Hours may be exercised from 31 March 2015 to 31 March 2016.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      Period of Performance                      Start Date: 05-OCT-2015                      End Date: 23-OCT-2015</p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>23-OCT-2015</td> </tr> </table> <p style="text-align: right;">\$ 3,738.98</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	23-OCT-2015	1	HR	Estimated Cost Fixed Fee Not to Exceed (Funding)	\$ <u>3,439.44</u> \$ <u>299.54</u> \$ <u>3,738.98</u>
DLVR SCH		PERF COMPL												
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	1	23-OCT-2015												

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**MOD/AMD** P00051

**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ MIPR/ <u>ITEM</u>	OBLG <u>STAT</u>	JO NO/ <u>ACCT ASSIGN</u>	ACRN	PRIOR AMOUNT	INCREASE/ DECREASE	CUMULATIVE AMOUNT
7001CC	W156C40947 M9545015MPBM956	2		BP \$	0.00 \$	137,242.56 \$	137,242.56
7001CD	W156C40947 M9545015MPBM956	2		BP \$	0.00 \$	30,000.00 \$	30,000.00
7001DA	W156C40947 M9545015MPBM956	2		BP \$	0.00 \$	3,738.98 \$	3,738.98
NET CHANGE						\$ 170,981.54	

ACRN	ACCOUNTING CLASSIFICATION	INCREASE/ DECREASE
BP 17	511061A2A25167854 0674432DM954505MPBM95614PY	\$ 170,981.54
NET CHANGE		\$ 170,981.54

NET CHANGE FOR AWARD:	PRIOR AMOUNT OF AWARD	INCREASE/DECREASE AMOUNT	CUMULATIVE OBLIG AMT
\$	38,549,469.45	\$ 170,981.54	\$ 38,720,450.99

LINE	ACRN	EDI/SFIS ACCOUNTING CLASSIFICATION	067443
7001CC	BP 17	151511061A2A 25167854 067443 2DM954505MPBM95614PY M9545015MPBM956	067443
7001CD	BP 17	151511061A2A 25167854 067443 2DM954505MPBM95614PY M9545015MPBM956	067443
7001DA	BP 17	151511061A2A 25167854 067443 2DM954505MPBM95614PY M9545015MPBM956	067443

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

## SECTION H - SPECIAL CONTRACT REQUIREMENTS

H-10 BASE YEAR:

Base year rates are established as outlined below and may be exercised during the period from 13 April 2012 to 13 April 2012. Labor Hours are available for 12 months from contract award date. CLINs added during Base Year will end AA, AB, AC, etc.

Base Year for the 1000 Series of CLINs support of the country of Egypt:

Estimated 21,030 Labor Hours will be available to be exercised during base year. Base year hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
1001	\$152.28	\$13.25	\$165.53
1002	\$127.90	\$11.13	\$139.04
1003	\$120.34	\$10.47	\$130.81
1004	\$152.28	\$13.25	\$165.53
1005	\$95.55	\$8.31	\$103.86
1006	\$120.34	\$10.47	\$130.81
1007	\$69.41	\$6.04	\$75.45

## Travel Cost

1008 \$69,663.14

## Material (CPFF)

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
1009	\$2,506,429.80	\$219,118.24	\$2,725,548.04

Base Year for the 2000 Series of CLINs support of the country of Australia:

estimated 1,200 Labor Hours will be available to be exercised during base year. Base year hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
2001	\$152.28	\$13.25	\$165.53
2002	\$172.20	\$14.98	\$187.18
2003	\$120.34	\$10.47	\$130.81
2004	\$152.28	\$13.25	\$165.53
2005	\$141.39	\$12.30	\$153.69
2006	\$120.34	\$10.47	\$130.81
2007	\$69.38	\$6.04	\$75.41

## Travel Cost

2008 \$37,162.77

Base Year for the 3000 Series of CLINs support of the country of Iraq:

estimated 13,700 Labor Hours will be available to be exercised during base year. Base year hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
3001	\$152.28	\$13.25	\$165.53
3002	\$142.14	\$12.37	\$154.51
3003	\$120.34	\$10.47	\$130.81
3004	\$152.28	\$13.25	\$165.53
3005	\$129.02	\$11.23	\$140.25
3006	\$120.34	\$10.47	\$130.81

## Travel Cost

3007 \$11,578.43

Base Year for the 4000 Series of CLINs support of the country of Kuwait:

estimated 1,300 Labor Hours will be available to be exercised during base year. Base year hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
4001	\$152.28	\$13.25	\$165.53

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4002	\$147.18	\$12.81	\$159.99
4003	\$120.34	\$10.47	\$130.81
4004	\$69.38	\$6.04	\$75.41

Travel Cost

4005	\$31,369.98
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Base Year for the 5000 Series of CLINs support of the country of Saudi Arabia: estimated 1,661 Labor Hours will be available to be exercised during base year. Base year hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
5001	\$152.28	\$13.25	\$165.53
5002	\$172.20	\$14.98	\$187.18
5003	\$120.34	\$10.47	\$130.81
5004	\$152.28	\$13.25	\$165.53
5005	\$158.77	\$13.81	\$172.59
5006	\$120.34	\$10.47	\$130.81
5007	\$69.40	\$6.04	\$75.44

Travel Cost

5008	\$49,217.27
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Base Year- CLIN 6010AA is being added via modification P00039 as follows:

60010AA Bradley LRU STS

3,700 are being purchased for Bradley LRU STS. Base year hourly rates for CLIN 6010AA are as follows:

Level of Effort:	Hourly Rate	Hours	Extended
Estimated Cost:	\$153.95	3,700	\$569,615.00
Fixed Fee:	\$ 13.39	3,700	\$ 49,543.00
Estimated CPFF:	\$167.34	3,700	\$619,158.00

Base Year- CLIN 7000AC is being added via modification P00039 as follows:

7000AC USMC DSESTS STS Support

3,363 are being purchased for DSESTS STS Support under CLIN 7000AC. Base year hourly rates for CLIN 7000AC are as follows:

Level of Effort:	Hourly Rate	Hours	Extended
Estimated Cost:	\$147.81	3,363	\$497,085.03
Fixed Fee:	\$ 12.86	3,363	\$ 43,248.18
Estimated CPFF:	\$160.67	3,363	\$540,333.21

H-11 OPTION PERIOD 1:

Option 1 rates are established as outlined below and may be exercised during the period from 13 April 2013 to 13 April 2014. The Labor Hours are available for 24 months from contract award date. Also, Option 1 rates may be exercised before 13 April 2013 for work performed after 13 April 2013. If exercised, the contract shall be increased on a cost-plus-fixed fee basis, as specified below. CLINs added during Option Period 1 will end BA, BB, BC, etc.

Option Period 1 for the 1000 Series of CLINs support of the country of Egypt:

5,126 Labor Hours are available to be exercised during Option Period 1. Option hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
1001	\$160.39	\$13.96	\$174.34
1002	\$146.21	\$12.72	\$158.94
1003	\$126.75	\$11.03	\$137.78
1004	\$160.39	\$13.96	\$174.34
1005	\$144.71	\$12.59	\$157.31
1006	\$126.75	\$11.03	\$137.78
1007	\$75.26	\$6.55	\$81.81

Travel Cost

1008	\$69,663.14
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Option Period 1 for the 2000 Series of CLINs support of the country of Australia:

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1,200 Labor Hours are available to be exercised during Option Period 1. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
2001	\$160.39	\$13.96	\$174.34
2002	\$181.37	\$15.78	\$197.16
2003	\$126.75	\$11.03	\$137.78
2004	\$160.39	\$13.96	\$174.34
2005	\$148.91	\$12.96	\$161.87
2006	\$126.75	\$11.03	\$137.78
2007	\$75.24	\$6.55	\$81.78

Travel Cost  
2008 \$37,162.77

Option Period 1 for the 3000 Series of CLINs support of the country of Iraq:

2,400 Labor Hours are available to be exercised during Option Period 1. Option hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
3001	\$160.39	\$13.96	\$174.34
3002	\$149.71	\$13.03	\$162.74
3003	\$126.75	\$11.03	\$137.78
3004	\$160.39	\$13.96	\$174.34
3005	\$135.89	\$11.83	\$147.72
3006	\$126.75	\$11.03	\$137.78

Travel Cost  
3007 \$11,578.43

Option Period 1 for the 4000 Series of CLINs support of the country of Kuwait:

1,900 Labor Hours are available to be exercised during Option Period 1. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
4001	\$160.39	\$13.96	\$174.34
4002	\$155.02	\$13.49	\$168.51
4003	\$126.75	\$11.03	\$137.78
4004	\$75.24	\$6.55	\$81.78

Travel Cost  
4005 \$31,369.98

Option Period 1 for the 5000 Series of CLINs support of the country of Saudi Arabia:

4,220 Labor Hours are available to be exercised during Option Period 1. Option hourly rates for each CLIN should be broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
5001	\$160.39	\$13.96	\$174.34
5002	\$181.37	\$15.79	\$197.16
5003	\$126.75	\$11.03	\$137.78
5004	\$160.39	\$13.96	\$174.34
5005	\$167.22	\$14.55	\$181.78
5006	\$126.75	\$11.03	\$137.78
5007	\$75.26	\$6.55	\$81.81

Travel Cost  
5008 \$49,217.27

Option Period 1- CLINs 6007, 6008, and 6009

\*\*CLINs 6007, 6008, and 6009 are being added via modification P00028.

This is only for CLINs 6007-6009 for U.S Army DSESTS.

Option Period 1 for the 6007-6009 Series of CLINs support U.S Army DSESTS as follows:

CLIN 6007 M1A1 SSTS Abrams: 2,479 Labor Hours are available to be exercised during the period of 28 February 2014 to 27 February 2015.

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

Option hourly rates for CLIN 6007 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6007	\$135.72	\$0.71	\$11.88	\$148.31

CLIN 6008 M1A1 PPSS Abrams: 1,903 Labor Hours are available to be exercised during the period of 28 February 2014 to 27 February 2015.

Option hourly rates for CLIN 6008 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6008	\$145.54	\$0.76	\$12.74	\$159.04

CLIN 6009 ODS A3 SSTS Bradley: 8,011 Labor Hours are available to be exercised during the period of 28 February 2014 to 27 February 2015.

Option hourly rates for CLIN 6009 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6009	\$135.60	\$0.71	\$11.86	\$148.18

Promptly notify the Contracting Officer upon reaching 75% of either the Authorized Hours or Total Cost provided on the above mentioned CLIN.

Option Period 1- CLIN 7000BA is being added via modification P00039 as follows:

7000BA USMC DSESTS STS Support

3,363 hours are available to be exercised for USMC DSESTS STS Support during the period of 01 September 2015 through 31 August 2016.

Option Period 1 hourly rates for CLIN 7000BA are as follows:

Level of Effort:	Hourly Rate	Hours	Extended
Estimated Cost:	\$150.92	3,363	\$507,543.96
Fixed Fee:	\$ 13.13	3,363	\$ 44,156.19
Estimated CPFF:	\$164.05	3,363	\$551,700.15

Option Period 1- CLIN 9001

\*\*CLIN 9001 is being added via modification P00026. This CLIN 9001BA is being fully exercised under modification P00026.

This is only for CLIN 9001 CM/ED CPFF LOE.

Option Period 1 for CLIN 9001 supports CM/ED US Army:

10,160 Labor Hours are available to exercised during Option Period 1. For CLIN 9001 only Option Period 1 is available to be exercised from 28 February 2014 to 27 February 2015. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	COM	TOTAL COST-PLUS-FIXED-FEE
9001	\$188.73	\$16.51	\$0.78	\$206.02

Promptly notify the Contracting Officer upon reaching 75% of either the Authorized Hours or Total Cost provided on the above mentioned CLIN.

H-12 OPTION PERIOD 2:

Option 2 rates are established as outlined below and may be exercised during the period from 13 April 2014 to 13 April 2015. The Labor Hours are available for 36 months from contract award date. Also, Option 2 rates may be exercised before 13 April 2014 for work performed after 13 April 2014. If exercised, the contract shall be increased on a cost-plus-fixed fee basis, as specified below. CLINS added during Option Period 2 will end CA, CB, CC, etc.

Option Period 2 for the 1000 Series of CLINS support of the country of Egypt:

5,126 Labor Hours are available to be exercised during Option Period 2. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
1001	\$167.22	\$14.56	\$181.77
1002	\$152.44	\$13.26	\$165.71
1003	\$132.16	\$11.50	\$143.66
1004	\$167.22	\$14.56	\$181.77
1005	\$150.88	\$13.13	\$164.01
1006	\$132.16	\$11.50	\$143.66
1007	\$77.09	\$6.71	\$83.80

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLCTravel Cost  
1008 \$69,663.14Option Period 2 for the 2000 Series of CLINs support of the country of Australia:  
1,200 Labor Hours are available to be exercised during Option Period 2. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
2001	\$167.22	\$14.56	\$181.77
2002	\$189.11	\$16.46	\$205.57
2003	\$132.16	\$11.50	\$143.66
2004	\$167.22	\$14.56	\$181.77
2005	\$155.25	\$13.51	\$168.77
2006	\$ 132.16	\$11.50	\$143.66
2007	\$77.05	\$6.71	\$83.76

Travel Cost  
2008 \$37,162.77Option Period 2 for the 3000 Series of CLINs support of the country of Iraq:  
2,750 Labor Hours are available to be exercised during Option Period 2. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
3001	\$167.22	\$14.56	\$181.77
3002	\$156.09	\$13.59	\$169.68
3003	\$132.16	\$11.50	\$143.66
3004	\$167.21	\$14.56	\$181.77
3005	\$141.68	\$12.33	\$154.01
3006	\$132.16	\$11.50	\$143.66

Travel Cost  
3007 \$11,578.43Option Period 2 for the 4000 Series of CLINs support of the country of Kuwait:  
1,900 Labor Hours are available to be exercised during Option Period 2. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
4001	\$167.22	\$14.56	\$14.56
4002	\$161.61	\$14.07	\$14.07
4003	\$132.16	\$11.50	\$11.50
4004	\$77.05	\$6.71	\$6.71

Travel Cost  
4005 \$31,369.98Option Period 2 for the 5000 Series of CLINs support of the country of Saudi Arabia:  
6,047 Labor Hours are available to be exercised during Option Period 2. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
5001	\$167.22	\$14.56	\$181.77
5002	\$189.11	\$16.46	\$205.57
5003	\$132.16	\$11.50	\$143.66
5004	\$167.22	\$14.56	\$181.77
5005	\$174.34	\$15.18	\$189.52
5006	\$132.16	\$11.50	\$143.66
5007	\$77.08	\$6.71	\$83.79

Travel Cost  
5008 \$49,217.27

This is only for CLIN 6006 DSESTS ODS A3 PPSS CPPF LOE.

Option Period 2 for the 6000 Series of CLINs support DSESTS US Army:

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

6,460 Labor Hours are available to exercised during Option Period 2. For this 6000 CLIN series only Option Period 2 is available to be exercised from 26 September 2013 to 25 September 2014. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
6006	\$146.90	\$12.79	\$159.69

Option Period 2- CLINs 6002, 6003, 6007, 6008, and 6009

\*\*CLINs 6002, 6003, 6007, 6008, and 6009 are being added via modification P00028.

This is only for CLINs 6002, 6003, 6007, 6008, and 6009 for U.S Army DSESTS  
Option Period 2 for CLINs 6002, 6003, 6007, 6008, and 6009 support U.S Army DSESTS as follows:

CLIN 6002 V2 Abrams STS: 27,319 Labor Hours are available to be exercised during the period of 28 February 2015 to 27 February 2016.  
Option hourly rates for CLIN 6002 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6002	\$153.68	\$0.75	\$13.45	\$167.88

CLIN 6003 ODS SA STS Bradley: 12,667 Labor Hours are available to be exercised during the period of 28 February 2015 to 27 February 2016.

Option hourly rates for CLIN 6003 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6003	\$150.82	\$0.74	\$13.20	\$164.76

CLIN 6007 M1A1 SSTS Abrams: 2,354 Labor Hours are available to be exercised during the period of 28 February 2015 to 27 February 2016.  
Option hourly rates for CLIN 6007 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6007	\$139.23	\$0.71	\$12.18	\$152.12

CLIN 6008 M1A1 PPSS Abrams: 1,881 Labor Hours are available to be exercised during the period of 28 February 2015 to 27 February 2016.  
Option hourly rates for CLIN 6008 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6008	\$151.06	\$0.76	\$13.22	\$165.04

CLIN 6009 ODS A3 SSTS Bradley: 6,449 Labor Hours are available to be exercised during the period of 28 February 2015 to 27 February 2016.

Option hourly rates for CLIN 6009 are broken out as follows:

CLIN	COST	COM	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE:
6009	\$141.92	\$0.73	\$12.42	\$155.06

Promptly notify the Contracting Officer upon reaching 75% of either the Authorized Hours or Total Cost provided on the above mentioned CLIN.

Option Period 2 for the 7001 Series of CLINs support USMC ED:

2,720 Labor Hours are available to be exercised during the period of 31 March 2014 to 31 March 2015.

Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
7001	\$138.49	\$12.06	\$150.55

Travel Cost

\*7001CD \$39,146.51

\*Updated from 7001AB to 7001CD via modification P00051.

This is only for the 8000 Series of CLINs for U.S Army ED.

Option Period 2 for the 8000 Series of CLINs support U.S Army ED:

18,115 Labor Hours are available to be exercised during the period of 21 September 2013 to 20 September 2014.

Option hourly rates for each CLIN are broken out as follows:

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
8001	\$154.04	\$13.35	\$167.39

Promptly notify the Contracting Officer upon reaching 75% of either the Authorized Hours or Total Cost provided on the above mentioned CLIN.

Option Period 2- CLIN 9001

\*\*CLIN 9001 is being added via modification P00026.

This is only for CLIN 9001 CM/ED CPFF LOE.

Option Period 2 for CLIN 9001 supports CM/ED US Army:

8,912 Labor Hours are available to exercised during Option Period 2. For CLIN 9001 only Option Period 2 is available to be exercised from 28 February 2015 to 27 February 2016. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	COM	TOTAL COST-PLUS-FIXED-FEE
9001	\$194.87	\$17.05	\$0.78	\$212.71

Promptly notify the Contracting Officer upon reaching 75% of either the Authorized Hours or Total Cost provided on the above mentioned CLIN.

H-13 OPTION PERIOD 3:

Option 3 rates are established as outlined below and may be exercised during the period from 13 April 2015 to 13 April 2016. The Labor Hours are available for 48 months from contract award date. Also, Option 3 rates may be exercised before 13 April 2015 for work performed after 13 April 2015. If exercised, the contract shall be increased on a cost-plus-fixed fee basis, as specified below. CLINs added during Option Period 3 will end EA, EB, EC, etc.

Option Period 3 for the 1000 Series of CLINs support of the country of Egypt:

5,126 Labor Hours are available to be exercised during Option Period 3. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
1001	\$171.98	\$14.97	\$186.96
1002	\$156.80	\$13.65	\$170.45
1003	\$135.94	\$11.83	\$147.77
1004	\$171.98	\$14.97	\$186.96
1005	\$155.18	\$13.51	\$168.69
1006	\$135.94	\$11.83	\$147.77
1007	\$78.50	\$6.83	\$85.33

Travel Cost

1008 \$69,663.14

Option Period 3 for the 2000 Series of CLINs support of the country of Australia:

1,200 Labor Hours are available to be exercised during Option Period 3. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
2001	\$171.98	\$14.97	\$186.95
2002	\$194.52	\$16.94	\$211.46
2003	\$135.94	\$11.83	\$147.77
2004	\$171.98	\$14.97	\$186.95
2005	\$159.68	\$13.90	\$173.58
2006	\$135.94	\$11.83	\$147.77
2007	\$78.47	\$6.83	\$85.30

Travel Cost

2008 \$37,162.77

Option Period 3 for the 3000 Series of CLINs support of the country of Iraq:

2,250 Labor Hours are available to be exercised during Option Period 3. Option hourly rates for each CLIN are broken out as follows:

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
3001	\$171.98	\$14.97	\$186.96
3002	\$160.55	\$13.98	\$174.53
3003	\$135.94	\$11.83	\$147.77
3004	\$171.98	\$14.97	\$186.96
3005	\$145.72	\$12.69	\$158.40
3006	\$135.94	\$11.84	\$147.77

Travel Cost  
3007 \$11,578.43

Option Period 3 for the 4000 Series of CLINs support of the country of Kuwait:  
1,200 Labor Hours are available to be exercised during Option Period 3. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
4001	\$171.98	\$14.97	\$186.96
4002	\$166.22	\$14.47	\$180.69
4003	\$135.94	\$11.83	\$147.77
4004	\$78.47	\$6.83	\$85.30

Travel Cost  
4005 \$31,369.98

Option Period 3 for the 5000 Series of CLINs support of the country of Saudi Arabia:  
1,700 Labor Hours are available to be exercised during Option Period 3. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
5001	\$171.98	\$14.97	\$186.96
5002	\$194.52	\$16.94	\$211.46
5003	\$135.94	\$11.84	\$147.77
5004	\$171.98	\$14.97	\$186.96
5005	\$179.31	\$15.61	\$194.92
5006	\$135.94	\$11.83	\$147.77
5007	\$78.49	\$6.83	\$85.32

Travel Cost  
5008 \$49,217.27

This is only for CLIN 6006 DSESTS ODS A3 PPSS CPFF LOE.

Option Period 3 for the 6000 Series of CLINs support DSESTS US Army:  
5,378 Labor Hours are available to be exercised during Option Period 3. For this 6000 CLIN series only Option Period 3 is available to be exercised from 26 September 2014 to 25 September 2015. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
6006	\$150.67	\$13.12	\$163.79

Option Period 3 for the 7001 Series of CLINs support USMC ED only:  
2,720 Labor Hours are available to be exercised during the period of 31 March 2015 to 31 March 2016.  
Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
7001	\$42.42	\$12.40	\$154.82

Travel Cost  
7001AB \$39,128.54

This is only for the 8000 Series of CLINs for U.S Army ED:  
Option Period 3 for the 8000 Series of CLINs support U.S Army ED PPSS:  
15,007 Labor Hours are available to be exercised during the period of 21 September 2014 to 20 September 2015.  
Option hourly rates for each CLIN are broken out as follows:

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
8001	\$162.70	\$14.17	\$176.87

Promptly notify the Contracting Officer upon reaching 75% of either the Authorized Hours or Total Cost provided on the above mentioned CLIN.

**H-14 OPTION PERIOD 4:**

Option 4 rates are established as outlined below and may be exercised during the period from 13 April 2016 to 13 April 2017. The Labor Hours are available for 60 months from contract award date. Also, Option 3 rates may be exercised before 13 April 2016 for work performed after 13 April 2016. If exercised, the contract shall be increased on a cost-plus-fixed fee basis, as specified below. CLINs added during Option Period 4 will end FA, FB, FC, etc.

Option Period 4 for the 1000 Series of CLINs support of the country of Egypt:

5,126 Labor Hours are available to be exercised during Option Period 4. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
1001	\$178.84	\$15.57	\$194.40
1002	\$169.90	\$14.20	\$184.09
1003	\$141.38	\$12.31	\$153.69
1004	\$178.84	\$15.57	\$194.40
1005	\$161.39	\$14.05	\$175.45
1006	\$141.38	\$12.31	\$153.69
1007	\$80.83	\$7.04	\$87.86

Travel Cost

1008 \$69,663.14

Option Period 4 for the 2000 Series of CLINs support of the country of Australia:

1,200 Labor Hours are available to be exercised during Option Period 4. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
2001	\$178.84	\$15.57	\$194.40
2002	\$202.33	\$17.62	\$219.95
2003	\$141.38	\$12.31	\$153.69
2004	\$178.84	\$15.57	\$194.40
2005	\$166.06	\$14.46	\$180.51
2006	\$141.38	\$12.31	\$153.69
2007	\$80.79	\$7.03	\$87.82

Travel Cost

2008 \$37,162.77

Option Period 4 for the 3,000 Series of CLINs support of the country of Iraq:

2,250 Labor Hours are available to be exercised during Option Period 4. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
3001	\$178.84	\$15.57	\$194.40
3002	\$166.97	\$14.54	\$181.51
3003	\$141.38	\$12.31	\$153.69
3004	\$178.84	\$15.57	\$194.40
3005	\$151.55	\$13.19	\$164.74
3006	\$141.38	\$12.31	\$153.69

Travel Cost

3007 \$11,578.43

Option Period 4 for the 4000 Series of CLINs support of the country of Kuwait:

1,700 Labor Hours are available to be exercised during Option Period 4. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
4001	\$178.84	\$15.57	\$194.40
4002	\$172.85	\$15.05	\$187.90
4003	\$141.38	\$12.31	\$153.69
4004	\$80.79	\$7.03	\$87.82

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**Name of Offeror or Contractor:** DRS TEST & ENERGY MANAGEMENT, LLC

Travel Cost  
4005 \$31,369.98

Option Period 4 for the 5000 Series of CLINs support of the country of Saudi Arabia:  
6,047 Labor Hours are available to be exercised during Option Period 4. Option hourly rates for each CLIN are broken out as follows:

CLIN	COST	FIXED FEE	TOTAL COST-PLUS-FIXED-FEE
5001	\$178.84	\$15.57	\$194.40
5002	\$202.33	\$17.62	\$219.95
5003	\$141.38	\$12.31	\$153.69
5004	\$178.84	\$15.57	\$194.40
5005	\$186.45	\$16.23	\$202.68
5006	\$141.38	\$12.31	\$153.69
5007	\$80.82	\$7.04	\$87.85

Travel Cost  
5008 \$49,217.27

**H-12 OPTIONS**

Failure to exercise the option in one year shall not preclude the Government from exercising the options in the following years.

\*\*\* END OF NARRATIVE H0001 \*\*\*

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## SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Attachment 0070	WORK DIRECTIVE 7001CC/DA (P00051)	25-FEB-2015	005	DATA

SYSTEM TECHNICAL SUPPORT  
WORK DIRECTIVE  
Contract: W56HZV-12-C-0199, P00051

SUSTAINMENT SERVICES CONTRACTOR: Work Directive (WD) No: 7001CC/DA  
DRS-TEM Date Work Directive Issued: 25 February 2015  
CATEGORY: System Technical Support (STS) WD Supplement No: N/A  
Date Supplement Issued: N/A

WD DESCRIPTION: Embedded Diagnostics STS  
CLIN Number: 7001CC/DA  
TYPE: Term in accordance with FAR 16.306(d)(2)  
Period of Performance: 25 February 2015 through 25 October 2015  
Relevant Statement of Work Section: 3.1, 3.3, 3.5, 3.9, 3.11, 3.13.1, 3.13.5.5

Hourly rate:

Estimated Cost: \$101.16  
Fixed Fee: \$8.81  
Cost Plus Fixed Fee: \$109.97

Authorized Hours for CLIN 7001CC:

Level of Effort: Hourly Rate Hours Extended  
Estimated Cost: \*\$101.16 1,248 \$126,247.68  
Fixed Fee: \*\$ 8.81 1,248 \$ 10,994.88  
Estimated CPFF \*\$109.97 1,248 \$137,242.56

Authorized Hours for CLIN 7001DA:

Level of Effort: Hourly Rate Hours Extended  
Estimated Cost: \*\$101.16 34 \$3,439.44  
Fixed Fee: \*\$ 8.81 34 \$ 299.54  
Estimated CPFF \*\$109.97 34 \$3,738.98

CLIN 7001CC/DA ED STS

PURPOSE: Systems Technical Support for USMC Embedded Diagnostics Program.

Note: CLIN 7001CC and CLIN 7001DA are for the same effort. These CLINs have been broken out due to the need to differentiate between hours being purchased from Option Period 2 and hours being purchased under Option Period 3.

DESCRIPTION OF WORK:

1. PROGRAM MANAGEMENT.

The contractor, as an independent contractor and not an agent of the United States Government (USG), shall furnish all the labor, services, personnel, travel, property management, and data management required to accomplish the work efforts. Submission of all program documents shall be provided to the USG Contracting Officer Representative (COR) by the contractor. All requests for deviation from the requirements or performance standards shall be submitted by the contractor to USG COR for processing and final approval by the Contracting Officer prior to execution by the contractor.

2. DOCUMENT PROCESSING.

The administrative costs for producing, copying, shipping, and handling of the contract program and technical documentation and other data in the required quantities shall be included in the cost of this effort and not separately priced.

3. PROGRAM AND TECHNICAL MANAGEMENT SUPPORTING REQUIREMENTS.

The contractor Program Manager (PM) or Program Engineer may attend the PM Main Battle Tank (MBT), Prime Vehicle Integrator Original Equipment Manufacturer (OEM), and other vehicle system or program reviews, as approved by the USG COR. The purpose of contractor attendance is primarily for programmatic and technical informational exchanges related to fielded or in-process USMC ED system updates.

#### 4. GFE ACCOUNTABILITY, MAINTENANCE AND SERVICES

##### 4.1 GFE PROPERTY ACCOUNTABILITY.

The contractor shall maintain, update and provide to the USG COR a quarterly Report of Government Property IAW CDRL A005. The report shall be in contractor format and shall identify and include all USMC Government Furnished Equipment (GFE) including vehicles assigned under the contract by NSN, Part Number, Nomenclature, Model, Quantities, CAGE, Serial Number, Serviceability, Security Requirements, where Located or Installed, and annotation of all Change Actions for new additions, deletions, disposition instructions, turn-in and shipment document numbers. All pertinent information shall be included on the report as established under US Army ED program.

##### 4.2 GFE MAINTENANCE AND SERVICES.

The contractor shall be responsible for maintenance and services of assigned USMC GFE in accordance with applicable M1A1 Maintenance Manual Standards commensurate with available special tools, test measurement and diagnostics equipment, support equipment, and necessary repair parts as identified in repair parts and special tools lists. The USMC will supply items required to maintain and service GFE upon contractor notification of needed items. The contractor shall use DA FORM 2404 to document performance of USMC GFE maintenance and services.

##### 4.2.1 GFE MAINTENANCE AND SERVICES.

Performance shall be measured by contractor compliance to achieving the following:

- a. The contractor shall identify USMC GFE serviceability problems and inform the USG COR in writing via electronic mail within three business days of finding any fault(s) rendering USMC GFE partially or completely inoperable.
- b. The contractor shall contact and coordinate with the USG COR in writing via electronic mail a minimum of 45 calendar days prior to need date for all special tools and test equipment required in M1A1 Abrams maintenance manuals in the performance of specific vehicle services (e.g. Borescope and Recoil exercise). These tasks will be performed by USG personnel with calibrated instruments/equipment, as needed.
- c. The current quarterly GFE report shall include all vehicles assigned under contract by NSN, Nomenclature, Model, Serial Number, the serviceability status, type of services completed, and next planned, all faults and date found, corrective actions, repair start and stop times, repair parts requested and used, part shortages, due in dates, maintenance man-hours for each write-up, vehicle hardware and software configuration.

#### 5. ELECTRONIC DELIVERY METHODS.

As a cost savings measure (shipping and handling fees), the contractor is required to submit electronically formatted contract deliverables using the secured PEO-GCS eBusiness Portal Embedded Diagnostics Workspace website or electronic mail.

#### 6. PHYSICAL MEDIA DELIVERY METHODS.

The contractor shall deliver digital USMC ED Executive Program and Source Code Software products via electronic CD-ROM/DVD media format and ship to USMC using units as directed by the USG COR when software is released.

#### 7. IN-PROCESS REVIEW.

The USG COR and the contractor shall conduct an In Process Review (IPR) around April 2015. During the IPR, the contractor shall notify the USG COR of any impacts to the contract, and the contractor efforts in development of USMC ED system updates in the following areas:

- a. Hardware design incorporations (component/system testing and qualification, engineering changes)
- b. Maintenance planning (reliability and maintenance task analysis)
- c. Support equipment (on/off platform devices and interconnecting items)
- d. Facilities (equipment, testing instruments, and System Integration Lab (SIL) use)
- e. Technical data (system requirement documents, performance specifications, interface control documents, engineering drawings, and Interactive Electronic Technical Manual (IETMs))
- f. Training support packages (related changes)
- g. Integrated Logistics Support (ILS) data (provisioning/cataloging, packaging/handling/shipping and transportation, and logistics support analysis)
- h. Configuration and data management (status of engineering change proposal, notice of revision, specification change notice, engineering release record)
- i. External coordination activities
- j. Issues or existing problems
- k. Risks (project, process and product) and mitigation plans

- l. Schedule review
- m. Preliminary and critical designs (architectural, functional, logical and detail).
- n. Computer resource support (diagnostics software development\*).

\*Software development status review efforts: requirements traceable to architectural, logical design (system/element software requirements); programming/code/build tasks, integration activities (bench and vehicle); test verification/validation (contractor test and evaluation, software quality assurance verification, and IETM validation; USG software validation and IETM verification)

8. MONTHLY COST PERFORMANCE AND STATUS REPORTS (CPSR).

The contractor shall generate and submit a USMC ED monthly Cost and Performance Status Report IAW CDRL A001.

9. TRIP REPORTS.

The contractor shall submit a monthly trip report to the USG COR IAW CDRL A002, by the 10th day of the following month via electronic mail, for each traveler supporting the USMC ED program that expended contract hours away from the contractors main facility. At a minimum, trip reports shall include purpose, dates, locations, interface coordination, activities performed, results, and assigned actions. Travel exceeding one month will require written pre-approval from the USG COR.

10. CONFIGURATION STATUS.

The contractor shall provide the USG COR a listing of configuration management activities in the form of a Configuration Status Report via electronic mail, IAW CDRL A017. This report is due when updated ED software is released for fielding.

11. TECHNICAL DATA LEDGER.

The contractor shall provide to the USG COR a Technical Data Ledger IAW CDRL listing all engineering drawings, models, and associated parts lists for USMC ED System (all related ED parts, components, assemblies, and computer software applications integrated). This report is due when the USMC ED software is released for fielding.

12. FREQUENCY OF EMBEDDED DIAGNOSTICS SOFTWARE UPDATES.

The contractor shall complete efforts that produce USMC ED software program updates as determined by new requirements approved by the USG COR.

Interim updates or patches prior to release date shall be performed only as approved by the USG COR via electronic mail. Interim updates or patches are strictly reserved for Emergency (safety critical) or Urgent (security vulnerabilities) situations.

13. USMC LINE REPLACEABLE UNITS and SYSTEMS

The contractor shall perform efforts in updating Embedded Diagnostics Software to enable troubleshooting of the USMC peculiar Line Replaceable Units (LRUs) and Fire Power Enhancement Program (FEP) components.

14. TESTABILITY and DIAGNOSTICS.

The contractor maintenance of USMC ED program software shall achieve the following requirements.

Each shall be demonstrated to the USG COR concurrently during the respective ED sustainment project phases using Windows XP OS and Windows 7 OS (32 and 64 bit), and USMC toughbook computer:

- a. Testability/BIT (built-in-test) concept is defined as using the US Army Armor and Ordnance approved operation concept and the maintenance concept for two levels of maintenance.
- b. Design analyses (e.g., fault tree, failure modes, effects and criticality) have been used to determine test point requirements and fault ambiguity group sizes as authorized by the USG COR.
- c. Level of repair and testability analysis is completed for each configuration item for each maintenance level to identify the optimum mix of BIT/diagnostics, semi-automatic test equipment and general-purpose test equipment.
- d. Preliminary BIT/testability analysis is completed by preliminary design review.
- e. Detailed BIT/testability analysis is completed by critical design review.
- f. Effectiveness of BIT/testability is validated with tests.
- g. Failure of the BIT/diagnostics circuitry does not precipitate other hardware/software failures.
- h. BIT/diagnostics filtering is applied to minimize false alarms.
- i. System anomalies and intermittent situations are analyzed for possible changes to the BIT/testability design, thresholds/tolerances and/or filtering.
- j. BIT/diagnostics software shall be reprogrammable through onboard diagnostics processing software updates and not require contract field services for installation.

- k. BIT/diagnostics indications and false alarms are analyzed for USG corrective action.
- l. Technical literature IETMs are fully integrated and tested (by contractor validation and USG verification) for field maintenance operations.
- m. FEP ED software program operation is fully standalone requiring no contractor or FSR involvement for either installation, uninstall (for development community only), or manipulation.

15. EMBEDDED DIAGNOSTICS SYSTEM TECHNICAL REPORT STUDIES (Whitepaper or Feasibility).

The contractor shall generate and deliver all technical report studies IAW CDRL A025 in the following format:

- a. Title Page - Identifies the report by providing contract number, project name, description title, task number, date of report, security classification, export controlled, and distribution statement information.
- b. Section I - Table of Contents, Introduction and Summary. Index and brief statement of study purpose and results obtained from the analytic effort.
- c. Section II - Body, a complete and detailed description of the analytic activities, methods, assumptions, facts, and results which led to the conclusions stated in Section I above. Rank and priority recommendations for resolutions or alternate system approaches (as applicable).
- d. Section III - Reference Artifacts, concept documents, alternative system approaches, trade-off material items or design solutions and redline of technical data or proposed performance or product specifications.

16. ENGINEERING CHANGES PROPOSALS

The contractor shall submit to the USG COR for processing, Engineering Change Proposals (ECPs) IAW CDRL A008 for all Class I changes affecting form, fit, and function to hardware and software configuration items. Class I changes are a product of approved ED System or SIL requirements. The contractor is responsible and accountable to inform the USG COR in writing via electronic mail of any Class I change to M1A1 ED System or SIL prior to implementation. The contractor shall use MIL-HDBK-61A (SE) as guidance for Class I and II criteria.

17. ENGINEERING CHANGE PROCESSING.

The contractor shall process all Class I ECPs using the US Army Multi-Engineering Change Proposal and Review System (MEARS). The USG will provide the contractor with necessary MEARS training and system access permissions. The contractor shall implement Class II level changes in accordance with its established change management practices and processes.

18. SUPPORTING CHANGE DOCUMENTATION.

The contractor shall provide documentation to support a complete and thorough USG COR review of each Class I ECP submission that addresses technical, product assurance, logistics (support analysis, provisioning and packaging data), cost, and schedule impacts related to change implementations. IAW CDRL A008 Class I ECP approval and implementation can only be approved by the Contracting Officer.

19. FIELD PROBLEM REPORTS.

The contractor shall process all submitted field hardware and software problem reports through contractor established databases and procedures, and shall interface and participate in problem resolution task workflows within the US Army PM MBT Asset Management System (AMS). The USG will provide necessary AMS access, training, and related administrative assistance. Additionally, the contractor shall summarize and enumerate open and closed USMC ED System Field Problem Reports in contractor format as part of the monthly cost performance and status reports.

19.1 MANAGING FIELD PROBLEM REPORTS.

The contractor shall propagate all USMC ED System Field problem information and document files into AMS data fields. The AMS data fields may be tailored between contractor and USG to best suit the USMC ED System problem report data exchanges. The contractor shall enter Field problem priority and category types and other data defined by AMS descriptions and rules. In the AMS, the contractor shall perform data entries to annotate required information, conduct communication exchanges with USG and OEM Subject Matter Experts, submit problem investigation and root cause analysis results, input completed USG corrective actions, and enter suggestive courses of actions that include cost and schedule impacts to reflect current status of field problem report resolutions. The contractor shall conduct problem investigation and root cause analysis (technical studies report) tasks upon receipt of USG COR review and concurrence. USG corrective actions requiring hardware or software design changes in form, fit, function, and interface characteristics shall be processed through the ECP processes.

19.2 FIELD PROBLEM REPORT REVIEW BOARD MEETINGS.

The contractor shall participate in the US Army PM MBT and OEM Quarterly Field Problem Report Review Board Meetings, as approved by USG

COR.

20. CONTRACTOR SOFTWARE AND HARDWARE PROBLEM REPORT MANAGEMENT.

The contractor shall maintain a database of open and closed Software and Hardware Problem Reports .

- a. Software Problems. Software problem reports derived from internal or field problems sources shall be prioritized and maintained in a contractor established problem report database identified by Safety, Critical, Routine, and Maintenance. Any USG corrective action requiring Class I changes in software design affecting form (language/media), fit (interfaces /interconnects /forces integral grouping), or function (performance requirements) characteristics shall be reviewed at the last Monthly IPT meeting of the quarter for planned engineering change and approval by USG.
- b. Hardware Problems. Hardware problem reports derived from internal contractor sources or registered field problems requiring Class I changes affecting form, fit or function shall be reviewed at the quarterly IPT meeting for planned engineering change and approval by USG. USMC ED software problem report management shall be included in the ED STS version and is not to be considered a standalone process or deliverable.

21. M1A1 SYSTEM INTEGRATION LABORATORY USE.

The USG GFE SIL is authorized for USMC ED use. The report for USMC usage shall be included with the monthly Cost and Performance Status Report

22. FIELD SERVICE REPRESENTATIVES.

The contractor shall provide one FSR for on and off platform maintenance support of USMC ED Systems. Any required travel shall be approved by the USG COR. While deployed OCONUS or CONUS the FSR shall serve as a liaison for USMC Product Manager (PdM) Tank Systems regarding the maintenance and serviceability of USMC ED Systems.

22.1 USMC FSR SUPPORT REQUEST (CONUS).

The contractor shall provide USMC ED FSR on and off platform maintenance support and availability within 24 hours of USG COR/USMC request for CONUS duty.

22.2 USMC FSR SUPPORT REQUEST (OCONUS).

A USMC FSR request for OCONUS field service requires a minimum of 45 days to process mandatory country specific clearances and complete obligatory training. The contractor shall initiate OCONUS FSR support processing three calendar days from receipt of USG COR/USMC request. Contractor shall inform the USG COR/USMC of the dates started and completed for all OCONUS processing steps.