

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
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PAGE OF PAGES
1 4

2. AMENDMENT/MODIFICATION NO.
45

3. EFFECTIVE DATE
22-Mar-2017

4. REQUISITION/PURCHASE REQ. NO.
1300583026

5. PROJECT NO. (If applicable)
N/A

6. ISSUED BY CODE

N00167

7. ADMINISTERED BY (If other than Item 6)

CODE

S2404A

NSWC, CARDEROCK DIVISION, MARYLAND
9500 MacArthur Blvd
West Bethesda MD 20817

DCMA Manassas
14501 George Carter Way, 2nd Floor
Chantilly VA 20151

SCD: C

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)

SCIENCE APPLICATIONS INTERNATIONAL CORP
1710 SAIC Drive
McLean VA 22102-3702

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

[X]

10A. MODIFICATION OF CONTRACT/ORDER NO.

N00178-04-D-4119 / N00178-04-D-4119-FD07

10B. DATED (SEE ITEM 13)

08-Jun-2011

CAGE CODE
6XWA8

FACILITY CODE

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 one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

SEE SECTION G

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

- (*) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- [X] D. OTHER (Specify type of modification and authority)
Bilateral modification in accordance with FAR 43.103(a)

E. IMPORTANT: Contractor is not, is required to sign this document and return 1 copies to the issuing office.

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

SEE PAGE 2

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

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

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

22-Mar-2017

BY (Signature of Contracting Officer)

22-Mar-2017

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

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

CONTRACT NO. N00178-04-D-4119	DELIVERY ORDER NO. N00178-04-D-4119-FD07	AMENDMENT/MODIFICATION NO. 45	PAGE 2 of 4	FINAL
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GENERAL INFORMATION

The purpose of this modification is to deobligate a total amount of \$392,201.42 in funding from CLINs 4000, 6000, 7000, 7100, 9000 and 9100; and to realign the ceiling associated with these deobligated amounts to the SLIN "AA" holding SLINs. Accordingly, said Task Order is modified as follows:

1. The total amount of funds obligated to the task is hereby decreased from \$36,251,552.60 by \$392,201.42 to \$35,859,351.18.

2. The task order funding and ceiling amounts identified in Sections B and G are hereby changes as follows:

Task Order Funding:

CLIN/SLIN	Type Of Fund	From (\$)	By (\$)	To (\$)
400219	RDT&E	1,025,000.00	(16,237.10)	1,008,762.90
400248	RDT&E	65,000.00	(734.53)	64,265.47
600217	RDT&E	2,325,000.00	(55,409.60)	2,269,590.40
600240	RDT&E	1,230,000.00	(57,618.75)	1,172,381.25
7000AW	RDT&E	135,000.00	(1,174.35)	133,825.65
7100AH	OPN	85,000.00	(30,000.00)	55,000.00
7100AJ	OPN	180,000.00	(35,500.00)	144,500.00
9000AS	RDT&E	840,000.00	(68,855.58)	771,144.42
9100AD	RDT&E	260,000.00	(7,000.00)	253,000.00
9100AJ	OPN	85,500.00	(13,671.51)	71,828.49
9100AK	OPN	20,000.00	(9,000.00)	11,000.00
9100AL	RDT&E	222,000.00	(3,500.00)	218,500.00
9100AM	OPN	145,000.00	(3,500.00)	141,500.00
9100AN	OPN	113,800.00	(90,000.00)	23,800.00

Task Order Ceiling:

CLIN/SLIN	From (\$)	By (\$)	To (\$)
7000AA	0.00	1,174.35	1,174.35
7000AW	135,000.00	(1,174.35)	133,825.65
7100AA	0.00	65,500.00	65,500.00
7100AH	85,000.00	(30,000.00)	55,000.00
7100AJ	180,000.00	(35,500.00)	144,500.00
9000AA	0.00	68,855.58	68,855.58
9000AS	840,000.00	(68,855.58)	771,144.42
9100AA	0.00	126,671.51	126,671.51

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9100AD	260,000.00	(7,000.00)	253,000.00
9100AJ	85,500.00	(13,671.51)	71,828.49
9100AK	20,000.00	(9,000.00)	11,000.00
9100AL	222,000.00	(3,500.00)	218,500.00
9100AM	145,000.00	(3,500.00)	141,500.00
9100AN	113,800.00	(90,000.00)	23,800.00

3. The total value of the order is hereby increased from \$36,559,465.00 by \$0.00 to \$36,559,465.00.

4. The end of the task order period of performance, as last revised under Modification 43, remains unchanged at 31 March 2017.

5. Section G Accounting and Appropriation Data are incorporated as follows:

MOD 45

400219 130039573000001 (16237.10)
LLA : CJ 1741319 H4RJ 251 SB397 0 050120 2D 000000 A10002064718

400248 130044278300001 (734.53)
LLA : DV 1741319 H4RJ 252 SB397 0 050120 2D 000000 A00002413893

600217 130039573000002 (55409.60)
LLA : CH 1741319 H4RJ 252 SB397 0 050120 2D 000000 A10002064718

600240 130044278300002 (57618.75)
LLA : DW 1741319 H4RJ 310 SB397 0 050120 2D 000000 A00002413893

7000AW 130044278300001 (1174.35)
LLA : DV 1741319 H4RJ 252 SB397 0 050120 2D 000000 A00002413893

7100AH 130058122300001 (30000.00)
LLA : FR 1761810 H1RC 251 SB450 0 050120 2D 000000 A00003509216
TI-57-00

7100AJ 130058302600001 (35500.00)
LLA : FS 1761810 81PB 251 V7200 0 050120 2D 000000 A00003523190
TI-58-00

9000AS 130044278300002 (68855.58)
LLA : DW 1741319 H4RJ 310 SB397 0 050120 2D 000000 A00002413893

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9100AD 130053504600002 (7000.00)
LLA : FN 1761319 H4RL 255 SB397 0 050120 2D 000000 A00003152723

9100AJ 130050140600006 (13671.51)
LLA : FF 1751810 81PB 251 V7200 0 050120 2D 000000 A00002895746

9100AK 130050647400005 (9000.00)
LLA : FG 1751810 81PB 251 V7200 0 050120 2D 000000 A00002927500

9100AL 130053504600006 (3500.00)
LLA : FN 1761319 H4RL 255 SB397 0 050120 2D 000000 A00003152723

9100AM 130058122300002 (3500.00)
LLA : FR 1761810 H1RC 251 SB450 0 050120 2D 000000 A00003509216
TI-57-00

9100AN 130058302600002 (90000.00)
LLA : FS 1761810 81PB 251 V7200 0 050120 2D 000000 A00003523190

MOD 45 Funding -\$392,201.42
Cumulative Funding \$35,859,351.18

6. TIs associated with the deobligations identified herein have been revised. The POP for TI-26_02 remains unchanged at 06 December 2014. The PoP for TI-38_03 remains unchanged at 06 December 2015. The PoP for TI-55_03, TI-56_03, TI-57_01, and TI-58_03 remains unchanged at 06 December 2016.

A conformed copy of this task order is attached to this modification for informational purposes only.

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SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
4000	AD24	Base Year - Engineering services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs. (Fund Type - TBD)	1.0	LO	██████████	██████████	\$1,013,974.00
400001	AD24	Incremental Funding in the amount of \$170,000.00 for Task Areas 4.1.1,4.1.7 (OPN)					
400002	AD24	Incremental Funding in the amount of \$165,000.00 for Task Areas 4.1.1, 4.1.7 (OPN)					
400003	AD24	Incremental funding in the amount of \$15,000 for TI-1. (RDT&E)					
400004	AD24	Incremental funding in the amount of \$30,000 for TI-1. (OPN)					
400005	AD24	Incremental funding in the amount of \$90,000 for TI-2. (RDT&E)					
400006	AD24	Incremental funding in the amount of \$35,000 for TI-03. (OPN)					
400007	AD24	Incremental funding in the amount of \$348,974 for TI-04. (O&MN,N)					
400008	AD24	Incremental funding in the amount of \$60,000 for TI-07. (OPN)					
400009	AD24	Incremental funding in the amount of \$75,000 for TI-05. (RDT&E)					
400010	AD24	Incremental funding in the amount of \$25,000 for TI-06. (RDT&E)					
4001	AD24	Option Year 2 - Engineering services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs. (Fund Type - TBD)	1.0	LO	██████████	██████████	\$4,390,252.00
400101	AD24	Incremental funding in the amount of \$175,000 for TI-06/01 (RDT&E)					
400102	AD24	Incremental funding in the amount of \$518,202 for TI-004.01 (O&MN,N)					
400103	AD24	Incremental funding in the amount of \$10,000 for TI-08. (O&MN,N)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
400104	AD24	Incremental funding in the amount of \$395,000 for TI-09 (RDT&E)					
400105	AD24	Incremental funding in the amount of \$629,850 for TI-10 (O&MN,N)					
400106	AD24	Incremental funding in the amount of \$82,200 for TI-16 (RDT&E)					
400107	AD24	Incremental funding in the amount of \$125,000 for TI-16 (RDT&E)					
400108	AD24	Incremental funding in the amount of \$30,000 for TI-16 (RDT&E)					
400109	AD24	Incremental funding in the amount of \$39,000 for TI-16 (RDT&E)					
400110	AD24	Incremental funding in the amount of \$307,000 for TI-13 (OPN)					
400111	AD24	Incremental funding in the amount of \$285,000 for TI-15 (Fund Type - OTHER)					
400112	AD24	Incremental funding in the amount of \$290,000 for TI-14 (APN)					
400113	AD24	Incremental funding in the amount of \$195,000 for TI-16.01 (RDT&E)					
400114	AD24	Incremental funding in the amount of \$70,000 for TI-16.01 (RDT&E)					
400115	AD24	Incremental funding in the amount of \$102,000 for TI-16.01 (RDT&E)					
400116	AD24	Incremental funding in the amount of \$32,000 for TI-12 2410(a) authority is hereby invoked (O&MN,N)					
400117	AD24	Incremental funding in the amount of \$45,000 for TI-18 (Fund Type - OTHER)					
400118	AD24	Incremental funding in the amount of \$420,000 for TI-09 (RDT&E)					
400119	AD24	Incremental funding in the amount of \$78,000 for TI-17 2410 (a) authority is hereby invoked (O&MN,N)					
400120	AD24	Incremental funding in the amount of \$120,000 for TI-17 2410(a) authority is hereby invoked (O&MN,N)					
400121	AD24	Incremental funding in the amount of \$130,000 for TI-11 (OPN)					
400122	AD24	Incremental funding in the amount of \$6,000 for TI-20 (OPN)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
400123	AD24	Incremental funding in the amount of \$50,000 for TI-16.02 (RDT&E)					
400124	AD24	Incremental funding in the amount of \$150,000 for TI-19 (RDT&E)					
400125	AD24	Incremental funding in the amount of \$106,000 for TI-20 (OPN)					
4002	AC34	Option Year 3 - Engineering services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs. (Fund Type - TBD)	1.0	LO			\$7,305,397.00
400201	AC34	Funding in the amount of \$60,000 TI 18-01 (WCF)					
400202	AC34	Funding in the amount of \$275,000, TI 22 (RDT&E)					
400203	AC34	Funding in the amount of \$10,000, TI 12.01 2410(a) authority is hereby invoked (O&MN,N)					
400204	AC34	Funding in the amount of \$125,000, TI 9.02 (RDT&E)					
400205	AC34	Funding in the amount of \$10,000, TI 21 2410(a) authority is hereby invoked (O&MN,N)					
400206	AC34	Funding in the amount of \$16,300, TI 21 2410(a) authority is hereby invoked (O&MN,N)					
400207	AC34	Funding in the amount of \$56,002, TI 16-03 (RDT&E)					
400208	AC34	Funding in the amount of \$50,000, TI 23 (OPN)					
400209	AC34	Funding in the amount of \$25,000, TI 23 (OPN)					
400210	AC34	Funding in the amount of \$5,000, TI 23-01 (OPN)					
400211	AC34	Funding in the amount of \$20,000, TI 24 (Fund Type - OTHER)					
400212	AC34	Funding in the amount of \$3,000, TI 23-01 (OPN)					
400213	AC34	Funding in the amount of \$90,000, TI 23-01 (OPN)					
400214	AC34	Funding in the amount of \$10,000, TI 23-01 (OPN)					
400215	AC34	Funding in the amount of \$7,000, TI 20-01 (OPN)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
400216	AC34	Funding in the amount of \$460,145, TI 25 (OPN)					
400217	AC34	Funding in the amount of \$355,000, TI 22/02 (RDT&E)					
400218	AC34	Funding in the amount of \$55,000, TI 25/00 (OPN)					
400219	AC34	Funding in the amount of \$1,008,762.90, TI 26/02 (RDT&E)					
400220	AC34	Funding in the amount of \$20,000, TI 27/00 (OPN)					
400221	AC34	Funding in the amount of \$550,000, TI 28/00 (OPN)					
400222	AC34	Funding in the amount of \$428,750, TI 28/00 (OPN)					
400223	AC34	Funding in the amount of \$200,000, TI 28/00 (OPN)					
400224	AC34	Funding in the amount of \$180,000, TI 23.03 (OPN)					
400225	AC34	Funding in the amount of \$5,000, TI 27/01 (OPN)					
400226	AC34	Funding in the amount of \$1,000, TI 27/01 (OPN)					
400227	AC34	Funding in the amount of \$106,000, TI 29/00 (RDT&E)					
400228	AC34	Funding in the amount of \$5,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400229	AC34	Funding in the amount of \$700, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400230	AC34	Funding in the amount of \$125,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400231	AC34	Funding in the amount of \$95,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400232	AC34	Funding in the amount of \$20,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400233	AC34	Funding in the amount of \$907,000, TI 31/00 2410(a) authority is hereby invoked (O&MN,N)					
400234	AC34	Funding in the amount of \$32,000, TI 32/00 (RDT&E)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
400235	AC34	Funding in the amount of \$23,000, TI 32/00 (RDT&E)					
400236	AC34	Funding in the amount of \$30,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400237	AC34	Funding in the amount of \$3,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400238	AC34	Funding in the amount of \$2,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400239	AC34	Funding in the amount of \$4,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)					
400240	AC34	Funding in the amount of \$35,000 TI 24/01 2410(a) authority is hereby invoked (Fund Type - OTHER)					
400241	AC34	Funding in the amount of \$3,000, TI 30/02 2410(a) authority is hereby invoked (RDT&E)					
400242	AC34	Funding in the amount of \$2,000, TI 30/02 2410(a) authority is hereby invoked (RDT&E)					
400243	AC34	Funding in the amount of \$2,000, TI 31/01 2410(a) authority is hereby invoked (O&MN,N)					
400244	AC34	Funding in the amount of \$806,000, TI 33/00 (OPN)					
400245	AC34	Funding in the amount of \$95,000, TI 34/00 (RDT&E)					
400246	AC34	Funding in the amount of \$9,500, TI 36/00 (O&MN,N)					
400247	AC34	Funding in the amount of \$82,000, TI 37/00 (FMS)					
400248	AC34	Funding in the amount of \$64,265.47, TI 26/02 2410(a) authority is hereby invoked (RDT&E)					
400249	AC34	Funding in the amount of \$562,000, TI 40/00 (OPN)					
400250	AC34	Funding in the amount of \$249,000, TI 41/00 (RDT&E)					
4003	AD24	This task order was solicited with a period of performance of a base year plus three option years. However, due to policy change, there is now a	1.0	LO	\$0.00	\$0.00	\$0.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
		three year maximum. Therefore, CLIN 4003 is no longer necessary. (Fund Type - TBD)					
		Option					

For ODC Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
6000	AD24	Base Year - Other Direct Costs (material, travel, miscellaneous including applicable indirect costs) - Non-fee bearing. Estimated NTE base amount of \$4,476,000(This amount is based on an estimated travel amount of \$276,000 and material amount of \$4,200,000.) (Fund Type - TBD)	1.0	LO	\$115,000.00
600001	AD24	Incremental Funding in the amount of \$30,000.00 for Task Areas 4.1.1 and 4.1.7 (OPN)			
600002	AD24	Incremental Funding in the amount of \$45,000.00 for Task Areas 4.1.1 and 4.1.7 (OPN)			
600003	AD24	Incremental funding in the amount of \$10,000 for TI-1 (RDT&E)			
600004	AD24	Incremental funding in the amount of \$10,000 for TI-2 (RDT&E)			
600005	AD24	Incremental funding in the amount of \$5,000 for TI-03 (OPN)			
600006	AD24	Incremental funding in the amount of \$5,000 for TI-04 (O&MN,N)			
600007	AD24	Incremental funding in the amount of \$10,000 for TI-007 (OPN)			
6001	AD24	Option Year 2 - Other Direct Costs (material, travel, miscellaneous including applicable indirect costs) - Non-fee bearing. Estimated NTE base amount of \$4,476,000(This amount is based on an estimated travel amount of \$276,000 and material amount of \$4,200,000.) (Fund Type - TBD)	1.0	LO	\$658,250.00
600101	AD24	Incremental funding in the amount of \$12,000 for TI-06/01 (RDT&E)			
600102	AD24	Incremental funding in the amount of \$9,900 for TI-004.01 (O&MN,N)			
600103	AD24	Incremental funding in the amount of \$90,000 for TI-08. (O&MN,N)			
600104	AD24	Incremental funding in the amount of \$130,000 for TI-09 (RDT&E)			
600105	AD24	Incremental funding in the amount of \$9,150 for TI-10 (O&MN,N)			
600106	AD24	Incremental funding in the amount of \$30,000 for TI-16 (RDT&E)			
600107	AD24	Incremental funding in the amount of \$12,200 for TI-16 (RDT&E)			
600108	AD24	Incremental funding in the amount of \$1,000 for TI-16 (RDT&E)			
600109	AD24	Incremental funding in the amount of \$10,000 for TI-13 (OPN)			
600110	AD24	Incremental funding in the amount of \$15,000 for TI-15 (Fund Type - OTHER)			

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
600111	AD24	Incremental funding in the amount of \$10,000 for TI-14, (APN)			
600112	AD24	Incremental funding in the amount of \$5,000 for TI-16.01 (RDT&E)			
600113	AD24	Incremental funding in the amount of \$3,000 for TI-16 (RDT&E)			
600114	AD24	Incremental funding in the amount of \$8,000 for TI-12 2410(a) authority is hereby invoked (O&MN,N)			
600115	AD24	Incremental funding in the amount of \$190,000 for TI-18 (Fund Type - OTHER)			
600116	AD24	Incremental funding in the amount of \$60,000 for TI-09 (RDT&E)			
600117	AD24	Incremental funding in the amount of \$2,000 for TI-17 (O&MN,N)			
600118	AD24	Incremental funding in the amount of \$30,000 for TI-11 (OPN)			
600119	AD24	Incremental funding in the amount of \$4,000 for TI-20 (OPN)			
600120	AD24	Incremental funding in the amount of \$8,000 for TI-16.02 (RDT&E)			
600121	AD24	Incremental funding in the amount of \$19,000 for TI-20 (OPN)			
6002	AD24	Option Year 3 - Other Direct Costs (material, travel, miscellaneous including applicable indirect costs) - Non-fee bearing. Estimated NTE base amount of \$4,476,000(This amount is based on an estimated travel amount of \$276,000 and material amount of \$4,200,000.) (Fund Type - TBD)	1.0	LO	\$7,684,310.60
600201	AD24	Incremental funding in the amount of \$55,000, TI 18-01 (WCF)			
600202	AD24	Incremental funding in the amount of \$700,000, TI 22 (RDT&E)			
600203	AD24	Incremental funding in the amount of \$590,000, TI 21 2410(a) authority is hereby invoked (O&MN,N)			
600204	AD24	Incremental funding in the amount of \$19,259.42, TI 23 (OPN)			
600205	AD24	Incremental funding in the amount of \$18,300, TI 22 (RDT&E)			
600206	AD24	Incremental funding in the amount of \$1,000,000, TI 21 2410(a) authority is hereby invoked (O&MN,N)			
600207	AD24	Incremental funding in the amount of \$108,224, TI 21 (OPN)			
600208	AD24	Incremental funding in the amount of \$25,000, TI 23 (OPN)			
600209	AD24	Incremental funding in the amount of \$14,884.80, TI 22 (RDT&E)			
600210	AD24	Incremental funding in the amount of \$20,400, TI 12 2410(a) authority is hereby invoked (O&MN,N)			
600211	AD24	Incremental funding in the amount of \$38,266.38, TI 23 (OPN)			
600212	AD24	Incremental funding in the amount of \$135,000, TI 24 (Fund Type - OTHER)			
600213	AD24	Incremental funding in the amount of \$70,000, TI 23-01 (OPN)			
600214	AD24	Incremental funding in the amount of \$350,000, TI 23-01 (OPN)			
600215	AD24	Incremental funding in the amount of \$13,000, TI 25 (OPN)			
600216	AD24	Incremental funding in the amount of \$25,000, TI 22/02 (RDT&E)			

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
600217	AD24	Incremental funding in the amount of \$2,269,590.40, TI 26/02 (RDT&E)			
600218	AD24	Funding in the amount of \$190,000, TI 27/00 (OPN)			
600219	AD24	Funding in the amount of \$60,000, TI 23-02 (OPN)			
600220	AD24	Funding in the amount of \$46,750,000, TI 28/00 (OPN)			
600221	AD24	Funding in the amount of \$123,000, TI 23/03 (OPN)			
600222	AD24	Funding in the amount of \$78,426, TI 27/01 (OPN)			
600223	AD24	Funding in the amount of \$9,000, TI 27/01 (OPN)			
600224	AD24	Funding in the amount of 67,500, TI 27/01 (OPN)			
600225	AD24	Funding in the amount of \$8,000, TI 29/00 (RDT&E)			
600226	AD24	Funding in the amount of \$55,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)			
600227	AD24	Funding in the amount of \$18,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)			
600228	AD24	Funding in the amount of \$20,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)			
600229	AD24	Funding in the amount of \$65,000, TI 31/00 2410(a) authority is hereby invoked (O&MN,N)			
600230	AD24	Funding in the amount of \$1,000, TI 32/00 (RDT&E)			
600231	AD24	Funding in the amount of \$55,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)			
600232	AD24	Funding in the amount of \$20,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)			
600233	AD24	Funding in the amount of \$18,000, TI 30/00 2410(a) authority is hereby invoked (RDT&E)			
600234	AD24	Funding in the amount of \$62,000, TI 30/02 2410(a) authority is hereby invoked (RDT&E)			
600235	AD24	Funding in the amount of \$18,000, TI 30/02 2410(a) authority is hereby invoked (RDT&E)			
600236	AD24	Funding in the amount of \$20,000, TI 31/01 2410(a) authority is hereby invoked (O&MN,N)			
600237	AD24	Funding in the amount of \$5,000, TI 34/00 (RDT&E)			
600238	AD24	Funding in the amount of \$300 TI 36/00 (O&MN,N)			
600239	AD24	Funding in the amount of \$5,000.00, TI 37/00 (FMS)			
600240	AD24	Funding in the amount of \$1,172,381.25, TI 26/02 2410(a) authority is hereby invoked (RDT&E)			
6003	AD24	This task order was solicited with a period of performance of a base year plus three option years. However, due to policy change, there is now a three year maximum. Therefore, CLIN 6003 is no longer necessary. (Fund Type - TBD)	1.0	LO	\$0.00

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Item PSC Supplies/Services Qty Unit Est. Cost
Option

For Cost Type Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000		Engineering services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs					\$5,947,946.00
7000AA	AD24	7000AA is an unfunded holding SLIN and will be reduced by the amount of incremental funding applied to separate SLINs to maintain the proper contract value. (Fund Type - TBD)	1.0	LO	██████████	██████████	\$1,174.35
7000AB	AD24	Funding in the amount of \$216,000.00 for TI-43-00 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	██████████	██████████	\$216,000.00
7000AC	AD24	Funding in the amount of \$823,500.00 TI-38 (RDT&E)	1.0	LO	██████████	██████████	\$823,500.00
7000AD	AD24	Funding in the amount of \$199,000.00 TI-44 (OPN)	1.0	LO	██████████	██████████	\$199,000.00
7000AE	AD24	Funding in the amount of \$ 50,000.00 TI-39 2410(a) authority is hereby invoked (OPN)	1.0	LO	██████████	██████████	\$50,000.00
7000AF	AD24	Funding in the amount of \$938,000.00 TI-42 (OPN)	1.0	LO	██████████	██████████	\$938,000.00
7000AG	AD24	Funding in the amount of \$152,000.00 TI-39-01 (OPN)	1.0	LO	██████████	██████████	\$152,000.00
7000AH	AD24	Funding in the amount of \$35,000.00 TI-39-01 (OPN)	1.0	LO	██████████	██████████	\$35,000.00
7000AJ	AD24	Funding in the amount of \$135,000.00 TI-45 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	██████████	██████████	\$135,000.00
7000AK	AD24	Funding in the amount of \$62,000.00 TI-45 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	██████████	██████████	\$62,000.00
7000AL	AD24	Funding in the amount of \$135,000.00 TI-46 (OPN)	1.0	LO	██████████	██████████	\$135,000.00
7000AM	AD24	Funding in the amount of \$14,000.00 TI-47 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	██████████	██████████	\$14,000.00
7000AN	AD24	Funding in the amount of \$608,655.00 TI-48 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	██████████	██████████	\$608,665.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000AP	AD24	Funding in the amount of \$360,000.00 TI-42-Rev 1 (OPN)	1.0	LO	██████████	██████████	\$360,000.00
7000AQ	AD24	Funding in the amount of \$298,712.00 TI-43-REV 1, 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	██████████	██████████	\$298,712.00
7000AR	AD24	Funding in the amount of \$160,000.00 TI-49 (FMS Case #JA-P-FTY)	1.0	LO	██████████	██████████	\$160,000.00
7000AS	AD24	Funding in the amount of \$8,000.00 TI-039-Rev 02 (OPN)	1.0	LO	██████████	██████████	\$8,000.00
7000AT	AD24	Funding in the amount of \$5,000.00 TI-039-REV 02 (OPN)	1.0	LO	██████████	██████████	\$5,000.00
7000AU	AD24	Funding in the amount of \$3,000.00 TI-039-REV 02 (OPN)	1.0	LO	██████████	██████████	\$3,000.00
7000AV	AD24	Funding in the amount of \$13,000.00 TI-45 (FMS Case #JA-P-FTY)	1.0	LO	██████████	██████████	\$13,000.00
7000AW	AD24	Funding in the amount of \$133,825.65 TI-38 rev 03 (RDT&E)	1.0	LO	██████████	██████████	\$133,825.65
7000AX	AD24	Funding in the amount of \$135,000.00 TI-38.02 (RDT&E)	1.0	LO	██████████	██████████	\$135,000.00
7000AY	AD24	Funding in the amount of \$2,000.00 TI-39/03 (OPN)	1.0	LO	██████████	██████████	\$2,000.00
7000AZ	AD24	Funding in the amount of \$2,000,00 TI-39-03 (OPN)	1.0	LO	██████████	██████████	\$2,000.00
7000BA	AD24	Funding in the amount of \$2,000.00 TI-39-03 (OPN)	1.0	LO	██████████	██████████	\$2,000.00
7000BB	AD24	Funding in the amount of \$400,000.00 TI-050-00 (O&MN,N)	1.0	LO	██████████	██████████	\$400,000.00
7000BC	AD24	Funding in the amount of \$130,000.00 TI-051-00 (RDT&E)	1.0	LO	██████████	██████████	\$130,000.00
7000BD	AD24	Funding in the amount of \$2,000.00 TI-39.3 (OPN)	1.0	LO	██████████	██████████	\$2,000.00
7000BE	AD24	Funding in the amount of \$110,000.00 TI-23/04 (OPN)	1.0	LO	██████████	██████████	\$110,000.00
7000BF	AD24	Funding in the amount of \$338,000.00 TI-49 (OPN)	1.0	LO	██████████	██████████	\$338,000.00
7000BG	AD24	Incremental funding in the amount of \$2,000.00 for TI-39.4 (OPN)	1.0	LO	██████████	██████████	\$2,000.00
7000BH	AD24	Incremental funding in the amount of \$25,000.00 for TI-52 (OPN)	1.0	LO	██████████	██████████	\$25,000.00
7000BJ	AD24	Funding in the amount of \$50,000.00 TI-52-00 (OPN)	1.0	LO	██████████	██████████	\$50,000.00
7000BK	AD24	Funding in the amount of \$64,000.00 TI-38-01 (RDT&E)	1.0	LO	██████████	██████████	\$64,000.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000BL	AD24	Funding in the amount of \$236,000.00 TI-52-00 (OPN)	1.0	LO	██████████	██████████	\$236,000.00
7000BM	AD24	Funding in the amount of \$44,969.00 TI-48-01 2410(a)authority is hereby invoked (O&MN,N)	1.0	LO	██████████	██████████	\$44,969.00
7000BN	AD24	Funding in the amount of \$54,100.00 for TI-52-01 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	██████████	██████████	\$54,100.00
7100		Engineering services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs					\$2,668,361.00
7100AA	AD24	7100AA is an unfunded holding SLIN and will be reduced by the amount of incremental funding applied to separate SLINs to maintain the proper contract value. (Fund Type - TBD)	1.0	LO	██████████	██████████	\$65,500.00
7100AB	AD24	Funding in the amount of \$169,361.00 TI-54-00 (O&MN,N)	1.0	LO	██████████	██████████	\$169,361.00
7100AC	AD24	Funding in the amount of \$400,000.00 TI-55-00 (OPN)	1.0	LO	██████████	██████████	\$400,000.00
7100AD	AD24	Funding in the amount of \$1,265,000.00 TI-56-00 (RDT&E) (RDT&E)	1.0	LO	██████████	██████████	\$1,265,000.00
7100AE	AD24	Funding in the amount of \$96,000.00, TI-56-01 (RDT&E) (RDT&E)	1.0	LO	██████████	██████████	\$96,000.00
7100AF	AD24	Funding in the amount of \$8,000.00 TI-55-01 (SCN)	1.0	LO	██████████	██████████	\$8,000.00
7100AG	AD24	Funding in the amount of \$465,000.00 TI-56-02 (RDT&E) (RDT&E)	1.0	LO	██████████	██████████	\$465,000.00
7100AH	R425	Funding in the amount of \$55,000.00, TI-57-01. (OPN)	1.0	LO	██████████	██████████	\$55,000.00
7100AJ	R425	Funding in the amount of \$144,500.00, TI-58-03. (OPN)	1.0	LO	██████████	██████████	\$144,500.00
7101		Engineering Services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs (PSC R425)					\$100,000.00
7101AA	R425	Funding in the amount of \$100,000. TI-55-02 (OPN)	1.0	LO	██████████	██████████	\$100,000.00
7200		Engineering services for signature measurement and assessment testing, acoustic stealth technology development, and related research programs					\$980,535.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7200AA	AD24	7200AA is an unfunded holding SLIN and will be reduced by the amount of incremental funding applied to separate SLINs to maintain the proper contract value. Incorporated via Modification 43. (Fund Type - TBD)	1.0	LO	██████████	██████████	\$163,912.00
7200AB	AD25	Incremental funding in the amount of \$430,000.00 in support of TI-59 (MOD 43). (RDT&E)	1.0	LO	██████████	██████████	\$430,000.00
7200AC	R425	Incremental funding in the amount of \$186,153.00 in support of TI-60 (MOD 43). (WCF)	1.0	LO	██████████	██████████	\$186,153.00
7200AD	R425	Incremental funding in the amount of \$190,470.00 in support of TI-60-01 (MOD 44). (WCF)	1.0	LO	██████████	██████████	\$190,470.00
7200AE	R425	Incremental funding in the amount of \$10,000.00 in support of TI-60-01 (MOD 44). (WCF)	1.0	LO	██████████	██████████	\$10,000.00

For ODC Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
9000		Other Direct Costs (material, travel, miscellaneous including applicable indirect costs) - Non-fee bearing.			\$3,758,500.00
9000AA	AD24	9000AA is an unfunded holding SLIN and will be reduced by the amount of incremental funding applied to separate SLINs to maintain the proper contract value. (Fund Type - TBD)	1.0	LO	\$68,855.58
9000AB	AD24	Funding in the amount of \$590,000.00 TI-38 (RDT&E)	1.0	LO	\$590,000.00
9000AC	AD24	Funding in the amount of \$79,000.00 TI-44 (OPN)	1.0	LO	\$79,000.00
9000AD	AD24	Funding in the amount of \$112,000.00 TI-42 (OPN)	1.0	LO	\$112,000.00
9000AE	AD24	Funding in the amount of \$148,000.00 TI-39/01 (OPN)	1.0	LO	\$148,000.00
9000AF	AD24	Funding in the amount of \$25,000.00 TI-39/01 (OPN)	1.0	LO	\$25,000.00
9000AG	AD24	Funding in the amount of \$5,000.00 TI-45 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	\$5,000.00
9000AH	AD24	Funding in the amount of \$10,000.00 TI-46 (OPN)	1.0	LO	\$10,000.00
9000AJ	AD24	Funding in the amount of \$33,590.00 TI-48 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	\$33,590.00
9000AL	AD24	Funding in the amount of \$20,000.00 TI-42-Rev 1 (OPN)	1.0	LO	\$20,000.00
9000AM	AD24	Funding in the amount of \$195,000.00 TI-43-Rev 1, 2410(a) authority is hereby invoked (RDT&E)	1.0	LO	\$195,000.00
9000AN	AD24	Funding in the amount of \$50,000.00 TI-49 (FMS Case #JA-P-FTY)	1.0	LO	\$50,000.00
9000AP	AD24	Funding in the amount of \$50,000.00 TI-039-REV 02 (OPN)	1.0	LO	\$50,000.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
9000AQ	AD24	Funding in the amount of \$85,000.00 TI-039-REV-02 (OPN)	1.0	LO	\$85,000.00
9000AR	AD24	Funding in the amount of \$12,000.00 TI-039-REV-02 (OPN)	1.0	LO	\$12,000.00
9000AS	AD24	Funding in the amount of \$771,144.42 TI-38 rev 03 (RDT&E)	1.0	LO	\$771,144.42
9000AT	AD24	Funding in the amount of \$28,000.00 TI-38.2 (RDT&E)	1.0	LO	\$28,000.00
9000AU	AD24	Funding in the amount of \$15,000.00 TI-39/03 (OPN)	1.0	LO	\$15,000.00
9000AV	AD24	Funding in the amount of \$18,000.00 TI-39-03 (OPN)	1.0	LO	\$18,000.00
9000AW	AD24	Funding in the amount of \$18,000.00 TI-39-03 (OPN)	1.0	LO	\$18,000.00
9000AX	AD24	Funding in the amount of \$150,000.00 TI-050-00 (O&MN,N)	1.0	LO	\$150,000.00
9000AY	AD24	Funding in the amount of \$16,000.00 TI-39.3 (OPN)	1.0	LO	\$16,000.00
9000BA	AD24	Funding in the amount of \$96,000.00 for TI-52 (OPN)	1.0	LO	\$96,000.00
9000BB	AD24	Funding in the amount of \$457,000.00 for TI-52-00 (OPN)	1.0	LO	\$457,000.00
9000BC	AD24	Funding in the amount of \$6,000.00 TI-38-01 (RDT&E)	1.0	LO	\$6,000.00
9000BD	AD24	Funding in the amount of \$18,000.00 TI-39-04 (OPN)	1.0	LO	\$18,000.00
9000BE	AD24	Funding in the amount of \$30,000.00 TI-39-04 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	\$30,000.00
9000BF	AD24	Funding in the amount of \$6,410.00 TI-48-01 2410(a)authority is hereby invoked (O&MN,N)	1.0	LO	\$6,410.00
9000BG	AD24	Funding in the amount of \$16,100.00 TI-50-01 2410(a)authority is hereby invoked (O&MN,N)	1.0	LO	\$16,100.00
9000BH	AD24	Funding in the amount of \$183,500.00 TI-52-00 (OPN)	1.0	LO	\$183,500.00
9000BJ	AD24	Funding in the amount of \$257,000.00 for TI-52-01 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	\$257,000.00
9000BK	AD24	Funding in the amount of \$95,000.00 for TI-39-05 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	\$95,000.00
9000BL	AD24	Funding in the amount of \$93,900.00 for TI-50-02 2410(a) authority is hereby invoked (O&MN,N)	1.0	LO	\$93,900.00
9100		Other Direct Costs (material, travel, miscellaneous including applicable indirect costs) - Non-fee bearing.			\$1,029,939.00
9100AA	AD24	9100AA is an unfunded holding SLIN and will be reduced by the amount of incremental funding applied to separate SLINs to maintain the proper contract value. (Fund Type - TBD)	1.0	LO	\$126,671.51
9100AB	AD24	Funding in the amount of \$45,639.00 TI-54-01 (O&MN,N)	1.0	LO	\$45,639.00
9100AC	AD24	Funding in the amount of \$100,000.00 TI-55-00 (OPN)	1.0	LO	\$100,000.00
9100AD	AD24	Funding in the amount of \$253,000.00 TI-56-03 (RDT&E) (RDT&E)	1.0	LO	\$253,000.00
9100AE	AD24	Incremental funding in the amount of \$10,000.00 TI-56-01 (RDT&E)	1.0	LO	\$10,000.00
9100AF	AD24	Incremental funding in the amount of \$22,000.00, TI-56-01 (RDT&E)	1.0	LO	\$22,000.00
9100AG	AD24	Funding in the amount of \$4,000.00, TI-56-01 (RDT&E) (RDT&E)	1.0	LO	\$4,000.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
9100AH	AD24	Incremental funding in the amount of \$2,000.00 TI-55-01 (SCN)	1.0	LO	\$2,000.00
9100AJ	AD24	Incremental funding in the amount of \$71,828.49 TI-55-03 (OPN)	1.0	LO	\$71,828.49
9100AK	AD24	Incremental funding in the amount of \$11,000.00 TI-55-03 (OPN)	1.0	LO	\$11,000.00
9100AL	AD24	Funding in the amount of \$218,500.00 TI-56-03 (RDT&E) (RDT&E)	1.0	LO	\$218,500.00
9100AM	R425	Funding in the amount of \$141,500.00, TI-57-01. (OPN)	1.0	LO	\$141,500.00
9100AN	R425	Funding in the amount of \$23,800.00, TI-58-03. (OPN)	1.0	LO	\$23,800.00
9200		Other Direct Costs (material, travel, miscellaneous including applicable indirect costs) - Non-fee bearing.			\$907,000.40
9200AA	AD24	9200AA is an unfunded holding SLIN and will be reduced by the amount of incremental funding applied to separate SLINs to maintain the proper contract value. Incorporated via Modification 43. (Fund Type - TBD)	1.0	LO	\$144,000.40
9200AB	R425	Incremental funding in the amount of \$57,500.00 in support of TI-59 (MOD 43). (RDT&E)	1.0	LO	\$57,500.00
9200AC	R425	Incremental funding in the amount of \$213,847.00 in support of TI-60 (MOD 43). (WCF)	1.0	LO	\$213,847.00
9200AD	R425	Incremental funding in the amount of \$402,653.00 in support of TI-60 (MOD 43). (WCF)	1.0	LO	\$402,653.00
9200AE	R425	Incremental funding in the amount of \$89,000.00 in support of TI-60-01 (MOD 44). (WCF)	1.0	LO	\$89,000.00

NOTE 1: The fee percentage applied under all CLINs excluding CLIN 6000 is ██████████

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SECTION C DESCRIPTIONS AND SPECIFICATIONS

SECTION C DESCRIPTIONS AND SPECIFICATIONS

This is a performance based statement of work. The effort performed hereunder will be evaluated in accordance with the performance standards/acceptable quality levels described below and the evaluation methods described in provision CAR H09 in Section H. Taskings under this Statement of Work fall under Product and Service Code (PSC) AD24 and R425.

1.0 SCOPE

The Naval Surface Warfare Center, Carderock Division requires engineering and technical services, system development support for software and hardware systems, program management assistance, and high-level, strategic planning services in support of signature silencing programs for naval ships and undersea systems at its acoustic measurement facilities. The services to be performed include the following:

- 1.1 Technical support for data collection, analysis, special studies, and reporting
- 1.2 Improvement and upgrade of signature measurement procedures, systems, and programs
- 1.3 Development of documentation, and software/hardware systems to meet signature measurement and assessment requirements
- 1.4 Strategic and long-range planning in support of signature measurement facilities, research and development programs, and special silencing project development
- 1.5 Special programs support and related studies
- 1.6 Hardware and software development in support of the measurement facilities.
- 1.7 Support of all hardware and software systems at NSWCs measurement facilities.

2.0 BACKGROUND

The Ship Signatures Directorate (70) of the Naval Surface Warfare Center Carderock Division (NSWCCD) is responsible for development of stealth technology to support Navy surface ship and submarine program goals. As part of its mission, Code 70 develops, operates and maintains major acoustic research and development (R&D) facilities at the South TOTO (Tongue of the Ocean) Acoustic Facility (STAFAC) within the Atlantic Undersea Test and Evaluation Center (AUTEC) in the Bahamas and the South Florida Test Facility (SFTF) in Fort Lauderdale FL.

STAFAC serves as the primary acoustic measurement facility for Atlantic Fleet submarines. The facility is installed within AUTEC, near Andros Island in the Bahamas. More specifically STAFAC is located approximately 40 miles east of AUTEC Site 4. The facility is equipped with two very complex High Gain Measurement Systems (HGMS). Data from the HGMS is telemetered via fiber optic cable to a data acquisition and processing lab located at AUTEC Site 1. Control, communications, and test vessel tracking will also be conducted from Site 1. STAFAC has a single test site for full-scale trials of all submarine classes. STAFAC has two High Gain Measurement System (HGMS) arrays with highly complex acoustic measurement arrays for performing noise investigations of naval vessels at various speed and depth

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conditions. STAFAC was designed to measure and characterize the acoustic signatures of USS SEAWOLF (SSN 21) and USS VIRGINIA (SSN 776) Class submarines.

3.0 PURPOSE

This task order covers engineering services in support of STAFAC and the Acoustic Trials Detachment (ATD) facilities.

4.0 TASK REQUIREMENTS

4.1 Systems Development

4.1.1 Systems Development

The Contractor shall provide data acquisition and analysis system development support for various ship signature measurements. This shall include the development, processing, and analysis of radiated noise, structureborne noise, platform, and sonar self-noise data. Development shall be for both NSWCCD and Navy operated systems. These efforts shall include the analysis of acoustic trial reporting requirements, identification of signal processing techniques and methods, an evaluation of systems requirements, development of system specifications, determination of adequacy of COTS instrumentation and/or software, development of software for acquisition and analysis systems, determination of interfacing requirements with ship systems (e.g. sonar and fire control), and validation and verification of data acquisition system operability and accuracy. After researching available technology, the contractor shall develop system specifications, overall system architecture, and software for the operation of the measurement system.

4.1.2 Software Development

The Contractor shall provide software development and support for acoustic trial measurement and data acquisition and processing systems. This includes both NSWCCD facilities and shipboard systems. This software development shall provide improved signal processing, efficiency, or user operability to presently used systems.

4.1.3 Tracking and Navigational Aids Systems Development and Support

The contractor shall provide tracking and navigational aids hardware and software support. These efforts shall include the analysis of acoustic, RADAR and GPS tracking requirements, identification of signal processing techniques and methods, development of system specifications, determination of adequacy of commercial off the shelf (COTS) instrumentation and/or software, development of software for tracking submerged and surface targets, determination of interfacing requirements with ship systems (e.g. sonar and fire control) and validation and verification of system operability and accuracy.

The Contractor shall provide software development for existing tracking and navigational aids systems. Systems requiring support include Submarine Tracking and Navigational Aid System

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(STANAS), Emergency Warning System (EWS), Acoustic Receiver and Transmitting System (ARTS), Submarine Acoustic Receiver and Transmitting System (SARTS), Source Array Projector System (SAPS), Mobile Calibrated Acoustic Noise System (MOCANS), tracking pingers, and tracking software. This software development shall provide improved tracking reliability, efficiency, and/or user operability to presently used systems.

4.1.4 Measurement Systems Validation Support

The Contractor shall provide measurement systems validation support. This support shall include both on-water and in lab support of measurement development and analysis systems and shall occur at any of the measurement facilities or other areas specified in this statement of work. The support shall include, but not be limited to, system operation, test direction, test plan development, development of validation plans and reporting.

4.1.5 System Integration and Test Support

The contractor shall provide support during dry system integration and testing. The contractor shall also assist in the assembly, setup, and disassembly of the systems at the beginning and end of the dry system integration and test phase.

4.1.6 System Installation Support

The contractor shall provide support in the recovery, repair and installation of the HGMS arrays and other land based or underwater systems at STAFAC and SFTF. Support may require personnel to live on an installation platform/ship for a period of up to two weeks. The contractor shall provide technical assistance in the installation during preparation and installation of the systems.

4.1.7 Acoustic Measurement and Data Acquisition System Development

The Contractor shall support the development of hardware and software for acoustic measurement and data acquisition systems for radiated noise, structureborne noise, and platform and sonar self-noise data. The Contractor shall analyze acoustic trial reporting requirements, identify signal-processing techniques, develop system specifications, determine the adequacy of commercially available instrumentation, define interface requirements with ship systems, and validate and verify system operability and accuracy. The Contractor shall provide software development for existing acoustic measurement, data acquisition, processing, and analysis systems.

4.1.8 Database Management System Development and Maintenance

The Contractor shall provide technical support in the development and maintenance of the individual database management systems used by the radiated noise, platform and sonar self-noise, structureborne noise, submarine vibration monitoring program, and trial director functional groups. These database management systems provide historical data storage and retrieval, class statistical analyses, and trend analysis.

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4.1.9 Documentation

The services performed shall include system and software documentation and user guides.

4.2 Submarine and Surface Ship Acoustic Measurement and Analysis Support

4.2.1 Acoustic Trial Support

The contractor shall provide support for radiated, platform, and structureborne noise. The services shall be in support of acoustic trials, TOMAs, fleet support, and other various noise measurements. The support shall include engineering support prior to, during, and following the measurement and involves planning, equipment setup, data acquisition, data analysis, statistical studies, and reporting.

4.2.2 Trial Director Support

The Contractor shall provide engineering and technical support for the planning, conducting and execution of full scale submarine, and surface ship, and other signature measurement trials. Specific efforts shall include: operation of the trial ranging systems and, in the case of submarine trials, the fire control system to ensure that acoustic run geometries are maintained in accordance with agenda requirements; coordination with ships forces to ensure that ship operating conditions such as speed, depth and machinery lineups are in accordance with agenda requirements; coordination with measurement and analysis personnel to ensure that acoustic problems are properly documented and information on deficiencies is transmitted to necessary on-site activities involved with problem resolution; and involvement in trial planning stages to develop agenda inputs based on the given technical requirements.

4.2.3 Calibration Support

The contractor shall provide technician support for fabrication, installation and calibration of acoustic measurement equipment. This support shall include both acoustic trial and special operation measurements. This support shall include equipment set up, test, and calibration, the fabrication of cable assemblies, the fabrication of electronic test fixtures, equipment setup, and integration on board test vessels or shore facilities. This shall also include the disassembly, packaging, and shipping of instrumentation and trial support equipment to and from the test vessel and or shore facility.

4.2.4 Training

The contractor shall provide training to the Government for acoustic data measurement and analysis techniques. This training is for both shipboard and measurement systems and may include system operation and acoustic analysis skills for radiated, platform, and structureborne noise data.

4.3 Program Management

4.3.1 Signature Silencing

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The Contractor shall provide signature silencing program management support. This shall identify and/or develop operational, technical, program, training, and regulatory requirements for silencing program development. The Contractor shall assist the Government in preparing, organizing, collecting, evaluating, review, and/or revising program documentation including issue papers, program plans, implementation plans, milestone charts, work breakdown structures, impact statements, funding profiles, planning, control data, schedules, cost analysis studies, and resource management. Under this task, the Contractor shall prepare presentation materials including, but not limited to, digital media, technical information documentation, visual aids and transparencies, multi-media presentations, briefing materials, and written articles for publication in professional or trade journals. Additionally, the contractor shall provide the capability to generate state of the art graphics and presentation packages. Presentation materials shall be commensurate with typical commercial products integrating video, high definition graphics, high quality sound, and web based formats. All presentation materials should be developed so it can run on a standard PC equipped with a typical NMCI configuration. In supporting program management of silencing programs, the contractor shall assist the Government in providing short and long term program assessment, resource and personnel management and leveling including staffing, cost cycles and analysis, develop and maintain program metrics, develop and implement program process improvements, and provide program management training and documentation.

4.3.2 Environmental Support

The contractor shall provide support for environmental issues related to operations and maintenance of Navy facilities. The support shall be in the form of conducting studies as well as generating written documentation. Examples of studies would include surveys of beach elevation, samples of beach material sediment size, and monitoring of airborne noise levels. The contractor shall be familiar with National Environmental Policy Act, 32 CFR Part 775; Department of the Navy Policy for Implementing the National Environmental Policy Act and OPNAVINST 5090.1B, Environmental and Natural Resources Program Manual. Familiarity with these documents for Navy environmental policy will allow the contractor to contribute written input to Navy documentation of Categorical Exclusions, Environmental assessments, and Environmental Impact Statements. The contractor shall assist with the preparation of environmental documentation for the evaluation of on-water projects as required. The support shall include conservation measures identified and required by environmental compliance documentation (e.g. the contractor may be required to train personnel to be observers during operations, to observe, record and generate reports for sightings and encounters of mammals, fish and wildlife listed under the Marine Mammal Protection Act, Endangered Species Act, or other enactments. The contractor shall become familiar and support any operating restrictions imposed by regulatory permits.

4.4 STAFAC Operations and Maintenance Support

The Contractor shall support operations and maintenance of the HGMS Array systems. This support shall include assisting the Government with system operations and maintenance. This support shall include direct operations of equipment and software and assisting the Government

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as well as system upgrades required to operate and maintain the systems in the most cost effective manner. This support shall require the contractor to travel for periods of up to 30 days at AUTECH on Andros Island, Bahamas.

The Contractor shall provide support maintenance including recovery and repair of the arrays on-site while onboard a recovery/installation platform, repair of array hardware at AUTECH, and repairs back at the contractor's facility. This support shall also include re-production of array components (hardware units) to replace damaged ones as required. These units shall include, but not be limited to, array frames, instrument pressure vessels, HGMS array staves, power, calibration, and telemetry electronics, WBO hydrophones and riser cables, and engineering sensors. In addition, the contractor shall provide recommended improvements to HGMS array system components upon completion of each operation and maintenance support trip.

5.0 SPECIAL REQUIREMENTS

The following special conditions shall apply to the contractor in the performance of the tasks of this task order:

5.1 Location of Work

The principal locations for performing the majority of tasks will be the Contractor's site, Acoustic Trials Detachment (ATD) in Cape Canaveral Florida, NSWCCD and STAFAC located at AUTECH, Andros Island Bahamas. The contractor may also be required to provide the services described in this SOW at other NSWC facilities and sites as identified by the Task Order Manager (TOM). Examples of other locations include any homeport for US naval ships, STAFAC, the South Florida Test Facility (SFTF) or forward deployed portable measurement systems.

5.2 Security

The Contractor shall comply with security procedures and instructions in accordance with the attached DD form 254. The majority of services under the the statement of work is unclassified. However, some tasks may require access to classified documents and secured lab areas. All contractors are required to obtain a SECRET security clearance. Access to classified information will be limited by security clearance level and need to know, and all classified material shall be handled in accordance with approved security practices and procedures. Contractor personnel in contact with classified documentation and/or equipment shall have the proper level of clearance on file with the local Government Security Office.

Full-scale and model-scale trials at NSWCCD facilities are SECRET, unless otherwise specified. All materials and medium generated from trials or operations at NSWCCD facilities are SECRET, unless otherwise specified. During operations, the contractor shall limit and control the access of contractor personnel into the restricted areas to those persons cleared for the operation and with the need to know. Contractor personnel with access to the site during trials shall be cleared CONFIDENTIAL. The COR may grant exceptions upon request.

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5.3 Deliverables

Deliverables shall be written reports and presentations providing reporting results obtained on assigned tasks or recommendations following analyses or assessments. Additionally oral presentations may be required. These will be prepared on a schedule assigned under Technical Instructions. Written reports shall be delivered to NSWCCD DET Puget Sound. Oral presentations may be given at agreed upon locations. All deliverables shall be completed and submitted in accordance with the requirements listed below. Final copies of deliverables shall be distributed to the TOM and RTA.

5.3.1 Progress Reports

The Contractor shall provide the Government with monthly progress and status reports per Technical Instruction. The report shall summarize efforts currently in progress, planned tasking, accomplishments and problems encountered, and financial status per technical instruction.

Deliverables: The Contractor shall submit a Monthly Progress and Status Report, in narrative form with graphics, as appropriate, to illustrate information clearly. Contractor format is acceptable.

Frequency: Monthly.

Medium: Electronic format (Microsoft compatible format whenever possible). Unless the original format of the document is a requirement, contractor format is acceptable.

Due Date: 30 days after task order award and monthly thereafter. Reports shall be delivered NLT 7 days into the new reporting period.

5.3.2 Technical Reports

The contractor shall provide the Government with engineering and technical reports. Contractor format is acceptable.

Deliverables: Engineering and technical reports shall provide the Government with fully documented results of studies, investigations, experiments and analyses performed. Reports include summaries, recommendations, status, trip reports, and any other required report.

Frequency: As Required. The Government shall provide notification of all required reports and associated due dates.

Medium: Electronic format (Microsoft compatible format whenever possible).

Due Date: Contractor shall be notified of specific due dates as required.

5.3.3 Report, Record of Meeting/Minutes

The Contractor shall provide the Government with reports and records of meetings of any

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specified type. Contractor format is acceptable.

Deliverables: Meeting minutes, and reports shall provide the Government with fully documented records of the deliberations and actions resulting from these meetings.

Frequency: As Required. The Government shall provide notification of all meeting support requirements and associated due dates.

Medium: Electronic format (Microsoft compatible format whenever possible).

Due Date: Contractor shall be notified of specific due dates as required.

5.3.4 Presentation Materials

The Contractor shall provide the Government with presentation material such as viewgraphs, photographs, slides, or other audiovisual aids to be used to present information. Contractor format is acceptable.

Deliverables: The contractor shall provide the Government with viewgraphs, photographs, slides, or other audiovisual aids as well as any accompanying text to be used to present information during meetings, reviews, and briefings.

Frequency: As Required. The Government shall provide notification of all required presentations and associated due dates.

Medium: Electronic format (Microsoft compatible format whenever possible).

Due Date: Contractor shall be notified of specific due dates as required.

5.3.5 Revisions to Existing Government Documents

The contractor shall review existing Government documents, provided as GFI, for technical accuracy, prepare changes for incorporation, make recommendations for changes with supporting rationale, and incorporate changes. Unless the original format of the document is a requirement, contractor format is acceptable.

Deliverables: The contractor shall provide the Government with updated Government documents.

Frequency: As Required. The Government shall provide notification of all required updates and associated due dates.

Medium: Electronic format (Microsoft compatible format whenever possible). Unless the original format of the document is a requirement, contractor format is acceptable.

Due Date: Contractor shall be notified of specific due dates as required.

5.4 Government Furnished Property and Information

The Contractor shall have access to all government materials, information, and equipment at

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NSWCCD Detachment Puget Sound and facilities as required necessary by the COR. When necessary, the government shall provide access to reference documents and data such as drawings, technical manuals, and electronic media files.

5.5 Travel

The contractor may be required to travel throughout the Continental United States (CONUS) and some OCONUS will be required. Trip duration will normally not exceed five working days plus the required transit time. When required to obtain access to a Government facility, ship, aircraft, or other duty station, the contractor shall initiate requests for need-to-know certification, and submit these requests to the TOM for appropriate action. Trip reports shall be provided within five (5) working days of return from travel, or submitted with the Monthly Status Report for the month in which the trips were taken.

6.0 PERFORMANCE REQUIREMENTS

For quality assurance, the contractor's tasks will be inspected and accepted by the COR.

7.0 CONTRACTOR PERSONNEL IDENTIFICATION

In the performance of this contract, contractor employees shall identify themselves as contractor personnel by introducing themselves or being introduced as contractor personnel and by displaying distinguishing badges or other visible identification for meetings with Government personnel. Contractor personnel shall appropriately identify themselves as contractor employees in telephone conversations and formal and informal written correspondence.

8.0 PERSONNEL

8.1 Level of Effort

The level of effort for the performance of this task order is based on the following labor categories and hours per year:

Labor Category	Hours Per Year	Required Resumes
<u>Key Personnel:</u>		
Program Manager (Offsite)	████	1
Supervisory Senior Engineer (Offsite)	████	2
Principal Investigative Scientist (Offsite)	████	2
Senior Mechanical Engineer (Offsite)	████	2
Senior Mechanical Engineer (Onsite)	██	1
Senior Electronics/Electrical Engineer (Offsite)	████	3
Senior Engineer (Offsite)	████	3

<u>Non-Key Personnel:</u>		
Engineer (Offsite)	██████	N/A
Electronic/Electrical Engineer (Offsite)	██████	N/A
Mechanical Engineer (offsite)	██████	N/A
Junior Engineer (Offsite)	██████	N/A
Senior Software Engineer (Offsite)	██████	N/A
Software Engineer (Offsite)	██████	N/A
Investigative Scientist (Offsite)	██████	N/A
Acoustic Analyst (Offsite)	██████	N/A
Senior Management Analyst (Offsite)	██████	N/A
Management Analyst (Offsite)	██████	N/A
Management Analyst (Onsite)	██████	N/A
Logistics Coordinator (Offsite)	██████	N/A
Logistics Coordinator (Onsite)	██████	N/A
Environmental Planner (Offsite)	████	N/A
Electronics Technician (Offsite)	██████	N/A
Electronics Technician (Onsite)	██████	N/A
Mechanical Specialist (Onsite)	██████	N/A
Draftsman (Offsite)	████	N/A
Technical Illustrator (Offsite)	████	N/A
Technical Typist/Editor (Offsite)	████	N/A
Technical Typist/Editor (Onsite)	████	N/A
Boat Operator	██████	N/A
Total hours per year	██████	
Total hours	██████	

8.2 Personnel Qualifications

Personnel Qualifications for key personnel are as follows:

8.2.1 Program Manager (offsite)

The target educational background and level of experience for the Program Manager is:

A masters degree in engineering or physics and 15 years experience or a bachelors degree in engineering or physics and 20 years experience. Experience should include:

- a. Managing projects and programs related to the design, development, test, and evaluation, or implementation of complex systems related to acoustics, non-acoustics/electromagnetics, vibration, and ship silencing. Five (5) years of this experience should demonstrate experience in the management of level of effort contracts in technical disciplines related to Section C -

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b. Familiarity with ship silencing programs for both surface ships and submarines, and familiarity with the inter relationships between and requirements of the Fleet, NAVSEA, Navy Laboratories, and other Navy activities dealing with ship silencing programs and issues.

c. Familiarity with programs involved in solving acoustic, non-acoustic and vibration problems in current Navy ships and in improving the acoustic and non-acoustic performance of the next generation of Navy ships.

8.2.2 Supervisory Senior Engineer (offsite)

The target educational background and level of experience for the Supervisory Senior Engineer(s) are:

A masters degree in engineering or physics and 15 years experience or a bachelors degree in engineering or physics and 20 years experience. Experience should include:

- a. Both surface ship and submarine silencing. Five (5) years of which demonstrate experience in supervision and project management of acoustic and vibration related ship silencing tasks.
- b. An understanding of silencing issues (including non-acoustics/electromagnetics) as they relate to ship mission, design, and operation of ship systems, and how those issues influence modifications and silencing improvement to present ships, and design and specifications of future ships. Demonstrated lead authorship on technical reports.

8.2.3 Principal Investigative Scientist (offsite)

The target educational background and level of experience for the Principal Investigative Scientist(s) are:

- a. A PhD in physics, mathematics, or engineering and 10 years experience or a masters degree in physics, mathematics, or engineering and 20 years experience. Experience should include:
- b. Advanced signal processing techniques, acoustics theory, and measurements of physical structures. Demonstrated experience in the interfacing of hardware and the development of software for: (1) real time acquisition and analysis of acoustic data from ships and submarines; and underwater tracking systems or (2) for command and control and information management systems. This includes a working knowledge of computer operating systems and appropriate software development environments. Individuals should have experience in project management of system development and integration and demonstrated task completion of software module development in support of system development and integration for signature data measurement and analysis systems.
- c. An understanding of wave theory and how it relates to physical phenomena. A knowledge of physics associated with acoustic scattering phenomena, acoustic resonance, wave theory, and wave propagation. Familiarity with boundary value problems and their solutions. Familiarity with finite element and finite boundary methods. Familiarity with physical structures and a

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demonstrated understanding of how theory relates to these.

8.2.4 Senior Mechanical Engineer (offsite/onsite)

The target educational background and level of experience for the Senior Engineer(s) are:

- a. A masters degree in Mechanical Engineering, and ten (10) years experience working with ocean engineering systems or a bachelor's degree in Mechanical Engineering, and fifteen (15) years experience working with ocean engineering systems.
- b. The experience should include the fabrication and assembly, installation, and recovery of in water systems. The Senior Mechanical Engineer should also demonstrate experience in managing complex mechanical refits of marine vessels with emphasis on application coast guard regulations. Experience should also include working within navy P-307 crane certification programs.

8.2.5 Senior Electronics/Electrical Engineer (offsite)

The target educational background and level of experience for the Senior Engineer is:

- a. A masters degree in Electrical Engineering, and ten (10) years experience in submarine and surface ship silencing work or a Bachelor's Degree in Electrical Engineeg and fifteen (15) years experience in submarine and surface shop silencing work.
- b. The experience should include ocean engineering of complex in-water arrays, in-water installation of arrays in harsh environments, a thorough understanding of acoustic measurement system calibration (both electronic and in-water), and maintenance of in-water arrays. The Senior Electronics/Electrical Engineer should have five (5) years experience in the interfacing of hardware and the development of software for: (1) real time acquisition and analysis of acoustic data from ships and submarines; or (2) for command and control and information management systems. This includes knowledge of Microsoft Windows, Linux, and HPUX operating systems and software development using Assembly, C#, C++, and C. Individuals should have an established record of accomplishment of project management of system development and integration plus demonstrated task completion of software module development in support of system development and integration.

8.2.6 Senior Engineer (offsite)

The target educational background and level of experience for the Senior Engineer shall be:

- a. A masters degree in Engineering or Physics with 10 years experience or a bachelor's degree in Engineering or Physics with twenty (20) years experience. Experience should include both submarine and surface ship acoustics. The experience should also include a thorough understanding of acoustic measurement systems, in-water measurement arrays, the interfacing of hardware and the development of software. Individuals should have an established track record of project management of system development and integration and demonstrated task completion of software module development in support of system development and integration.

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Non-Key Personnel:

8.2.7 Engineer (offsite)

The Engineer shall have a bachelors degree in engineering or physics and five (5) years experience.

8.2.8 Electronics/Electrical Engineer (offsite)

The educational background and level of experience for the Electronics Engineer(s) shall be:

A bachelor's degree in Electrical or Electronics Engineering, and three (3) years experience in submarine and surface ship acoustic measurement system design and development. The experience shall include engineering of complex in-water hydrophone arrays in harsh environments, a thorough understanding of acoustic measurement system calibration techniques (both electronic and in-water), and maintenance of in-water arrays. The Electronics/Electrical Engineer shall demonstrate experience in the interfacing of hardware and the development of software for: (1) real time acquisition and processing of acoustic data from ships and submarines; or (2) for command and control and information management systems. This includes working knowledge of Microsoft Windows and Linux operating systems and software development using Assembly, C#, C++, and C. Individuals shall have an established record of accomplishment of project management of system development and integration plus demonstrated task completion of software module development in support of system development and integration.

8.2.9 Mechanical Engineer (offsite)

The educational background and level of experience for the Mechanical Engineer(s) shall be:

A bachelor's degree in Mechanical Engineering, and three (3) years experience in submarine and surface ship acoustic measurement system design and development. The Mechanical Engineer shall demonstrate experience with mechanical engineering aspects of complex hydrophone arrays in deep ocean environments and a thorough understanding of mechanical fabrication and assembly techniques for hydrophone array assemblies.

8.2.10 Junior Engineer (offsite)

The Junior Engineer shall have a bachelor's degree in engineering or physics.

8.2.11 Senior Software Engineer (offsite)

The Senior Software Engineer(s) shall have a bachelors degree in engineering, physics, or computer science and 10 years experience in developing complex hardware/software systems. Five (5) years experience in the interfacing of hardware and the development of software for: (1) real time acquisition and analysis of acoustic data from ships and submarines; and underwater tracking systems or (2) for command and control and information management systems.

8.2.12 Software Engineer (offsite)

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The Software Engineer shall have a bachelor's degree in engineering, physics, or computer science and experience in the interfacing of hardware and the development of software.

8.2.13 Investigative Scientist (offsite)

The Investigative Scientist shall have a master's degree in physics, mathematics, or engineering and three (3) years experience in advanced signal processing techniques and acoustics theory.

8.2.14 Acoustic Analyst (offsite)

The Acoustic Analyst shall have ten (10) years experience in analysis of acoustic data from submarines and surface ships in one or more of the following disciplines: radiated noise, platform noise, sonar self noise, structureborne noise, and machinery vibration condition analysis.

8.2.15 Senior Management Analyst (offsite)

The Senior Management Analyst shall have fifteen (15) years experience in the development and implementation of program and project management and organizational management tracking and control systems; including the development of system requirements, implementation of system procedures, and development of documentation to demonstrate system performance. This individual shall also have experience in:

- a. Development and implementation of instructions and procedures for monitoring personnel management systems including; job descriptions, position classification, and performance assessment.
- b. Supporting program managers to prepare, organize, collect, evaluate, review, and/or revise program documentation including, but not limited to, issue papers, program plans, implementation plans, milestone charts, work breakdown structure, impact statements, funding profiles, procurement requirements, planning/ control data, and schedules, cost and analysis studies, resource management including staffing.
- c. Short and long term program assessment, resource and personal management and leveling including staffing, cost cycles and analysis, develop and maintain program metrics, develop and implement program process improvements, and provide program management training and documentation.

8.2.16 Management Analyst (onsite/offsite)

The Management Analyst(s) shall have five (5) years experience in the development and implementation of program and project management and organizational management tracking and control systems; including the development of system requirements, implementation of system procedures, and development of documentation to demonstrate system performance.

8.2.17 Logistics Coordinator (onsite/offsite)

The Logistics Coordinator(s) shall have ten (10) years experience in organizing and supporting remote technical operations with transportation, shipping, receiving, and handling of materials.

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8.2.18 Environmental Planner (offsite)

The Environmental Planner shall have ten (10) years of experience and a bachelor's degree in environmental planning, a related science, or an engineering field. Experience shall include categorical exclusions, environmental assessments, and environmental impact statements.

8.2.19 Electronics Technician (onsite/offsite)

The Electronics Technician(s) shall have five (5) years experience as an electronics technician. Five (5) years of which demonstrate experience in the maintenance and assembly of electronic equipment and instruction, including transducers, low noise instrumentation amplifiers, spectrum analyzers, multi-channel analog tape recorders. This individual shall also have experience in:

- a. Reading, interpreting and understanding blue prints, drawings, schematics and implementing program security directives, safety regulations and local area instructions.
- b. Maintaining certifications of and operates physical security systems IAW DoD and SCI requirements.

8.2.20 Mechanical Specialist (onsite)

The Mechanical Specialist(s) shall have five (5) years experience in the operation, maintenance, and troubleshooting of equipment and machinery operating in a marine environment. This individual shall also have experience in:

- a. Managing maritime assets, to include small support boats and barges that contain power, fuel, water, marine sanitation, and ballast systems. The individual shall have experience in all aspects of operation and equipment maintenance.
- b. Operating and maintaining small craft and remote operated sub sea vehicles operation under all weather conditions in inland and ocean environments.
- c. Planning, supervising and conducting heavy rigging operations. Shall be able to obtain required qualifications, certifications and licensing (e.g. crane operator, forklift, etc.)
- d. Reading, interpreting and understanding blue prints, drawings, schematics and implementing program security directives, safety regulations and local area instructions. Maintains certifications of and operates physical security systems IAW DoD and SCI requirements.

8.2.21 Draftsman (offsite)

The Drafter shall have five (5) years experience as a technical drafter.

8.2.22 Technical Illustrator (offsite)

The Technical Illustrator shall have a bachelor's or associate degree in graphic arts or related field, and three (3) years experience as a technical illustrator or graphic artist.

8.2.23 Technical Typist/Editor (onsite/offsite)

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The Technical Typist/Editor shall have five (5) years experience with technical documentation preparation and two (2) years of experience in technical report editing.

8.2.24 Boat Operator

The Boat Operator shall have a Master license and 5 years experience operating 25 ton small craft in ocean environments.

In addition to the qualifications above, the following labor categories will need the following certifications in accordance with DFAR 252.239-7001.

Labor Category	IAWF Level	Baseline Cert.	OS Cert.
Senior Electronics/Electrical Engineer	IAT-1	NET+	Linux+
Electronics/Electrical Engineer	IAT-1	NET+	Linux+
Software Engineer	IAT-2	SEC+	Linux+
Senior Software Engineer	IAT-2	SEC+	Linux+

9.0 REQUIRED REPORTS

The contractor shall report contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for Naval Surface Warfare Center, Carderock Division via a secure data collection site. Contracted services excluded from reporting are based on Product Service Codes (PSCs). The excluded PSCs are:

- (1) W, Lease/Rental of Equipment;
- (2) W, Lease/Rental of Facilities;
- (3) Y, Construction of Structures and Facilities;
- (4) S, Utilities ONLY;
- (5) V, Freight and Shipping ONLY.

The contractor is required to completely fill in all required data fields using the following web address <https://doncmra.nmci.navy.mil>.

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Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 01 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the help desk, linked at <https://doncmra.nmci.navy.mil>.

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SECTION D PACKAGING AND MARKING

Packing and Marking shall be in accordance with Section D of the base contract.

Contracting Officer's Representative

[REDACTED]

Naval Surface Warfare Center
 Detachment Cape Canaveral
 740 Mullet Drive
 Building ATD, Floor 1
 Cape Canaveral, FL 32920

[REDACTED]

[REDACTED]

All Deliverables shall be packaged and marked IAW Best Commercial Practice.

HQ D-2-0008 MARKING OF REPORTS (NAVSEA) (SEP 1990)

All reports delivered by the Contractor to the Government under this contract shall prominently show on the cover of the report:

- (1) name and business address of the Contractor
- (2) contract number
- (3) task order number
- (4) sponsor: _____
 (Name of Individual Sponsor)

 (Name of Requiring Activity)

 (City and State)

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SECTION E INSPECTION AND ACCEPTANCE

Contracting Officer's Representative

[REDACTED]

Naval Surface Warfare Center
Detachment Cape Canaveral
740 Mullet Drive
Building ATD, Floor 1
Cape Canaveral, FL 32920

[REDACTED]

[REDACTED]

Inspection and Acceptance shall be performed by the Government at destination by the Contracting Officer's Representative.

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SECTION F DELIVERABLES OR PERFORMANCE

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

4000	6/8/2011 - 12/6/2014
4001	6/8/2012 - 12/6/2014
4002	6/7/2013 - 12/6/2014
6000	6/8/2011 - 12/6/2014
6001	6/8/2012 - 12/6/2014
6002	6/7/2013 - 12/6/2014
7000AA	12/7/2014 - 12/6/2015
7000AB	12/7/2014 - 12/6/2015
7000AC	12/7/2014 - 12/6/2015
7000AD	12/7/2014 - 12/6/2015
7000AE	12/7/2014 - 12/6/2015
7000AF	12/7/2014 - 12/6/2015
7000AG	12/30/2014 - 12/6/2015
7000AH	12/7/2014 - 12/6/2015
7000AJ	12/7/2014 - 12/6/2015
7000AK	12/7/2014 - 12/6/2015
7000AL	12/7/2014 - 12/6/2015
7000AM	12/7/2014 - 12/6/2015
7000AN	12/7/2014 - 12/6/2015
7000AP	2/20/2015 - 12/6/2015
7000AQ	2/20/2015 - 12/6/2015
7000AR	2/20/2015 - 12/6/2015
7000AS	2/20/2015 - 12/6/2015
7000AT	2/20/2015 - 12/6/2015
7000AU	2/20/2015 - 12/6/2015
7000AV	5/21/2015 - 12/6/2015
7000AW	5/21/2015 - 12/6/2015
7000AX	5/21/2015 - 12/6/2015
7000AY	5/21/2015 - 12/6/2015
7000AZ	5/21/2015 - 12/6/2015
7000BA	5/21/2015 - 12/6/2015
7000BB	5/21/2015 - 12/6/2015
7000BC	5/21/2015 - 12/6/2015
7000BD	5/21/2015 - 12/6/2015
7000BE	5/21/2015 - 12/6/2015
7000BF	5/21/2015 - 12/6/2015
7000BG	8/14/2015 - 12/6/2015
7000BH	8/14/2015 - 12/6/2015
7000BJ	8/14/2015 - 12/6/2015
7000BK	8/14/2015 - 12/6/2015
7000BL	8/14/2015 - 12/6/2015

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7000BM	8/14/2015 - 12/6/2015
7000BN	9/26/2015 - 12/6/2015
7100AA	12/7/2015 - 12/6/2016
7100AB	12/7/2015 - 12/6/2016
7100AC	12/7/2015 - 12/6/2016
7100AD	12/7/2015 - 12/6/2016
7100AE	6/7/2016 - 12/6/2016
7100AF	6/7/2016 - 12/6/2016
7100AG	8/15/2016 - 12/6/2016
7100AH	9/29/2016 - 12/6/2016
7100AJ	9/29/2016 - 12/6/2016
7101AA	8/15/2016 - 12/6/2016
7200AA	12/7/2016 - 3/31/2017
7200AB	12/7/2016 - 3/31/2017
7200AC	12/7/2016 - 3/31/2017
7200AD	12/29/2016 - 3/31/2017
7200AE	12/29/2016 - 3/31/2017
9000AA	12/7/2014 - 12/6/2015
9000AB	12/7/2014 - 12/6/2015
9000AC	12/7/2014 - 12/6/2015
9000AD	12/7/2014 - 12/6/2015
9000AE	12/7/2014 - 12/6/2015
9000AF	12/7/2014 - 12/6/2015
9000AG	12/7/2014 - 12/6/2015
9000AH	12/7/2014 - 12/6/2015
9000AJ	12/7/2014 - 12/6/2015
9000AL	2/20/2015 - 12/6/2015
9000AM	2/20/2015 - 12/6/2015
9000AN	2/20/2015 - 12/6/2015
9000AP	2/20/2015 - 12/6/2015
9000AQ	2/20/2015 - 12/6/2015
9000AR	2/20/2015 - 12/6/2015
9000AS	5/21/2015 - 12/6/2015
9000AT	5/21/2015 - 12/6/2015
9000AU	5/21/2015 - 12/6/2015
9000AV	5/21/2015 - 12/6/2015
9000AW	5/21/2015 - 12/6/2015
9000AX	5/21/2015 - 12/6/2015
9000AY	5/21/2015 - 12/6/2015
9000BA	8/14/2015 - 12/6/2015
9000BB	8/14/2015 - 12/6/2015
9000BC	8/14/2015 - 12/6/2015
9000BD	8/14/2015 - 12/6/2015
9000BE	8/14/2015 - 12/6/2015
9000BF	8/14/2015 - 12/6/2015
9000BG	8/14/2015 - 12/6/2015

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9000BH	8/14/2015 - 12/6/2015
9000BJ	9/26/2015 - 12/6/2015
9000BK	9/26/2015 - 12/6/2015
9000BL	9/26/2015 - 12/6/2015
9100AA	12/7/2015 - 12/6/2016
9100AB	12/7/2015 - 12/6/2016
9100AC	12/7/2015 - 12/6/2016
9100AD	12/7/2015 - 12/6/2016
9100AE	6/7/2016 - 12/6/2016
9100AF	6/7/2016 - 12/6/2016
9100AG	6/7/2016 - 12/6/2016
9100AH	6/7/2016 - 12/6/2016
9100AJ	6/7/2016 - 12/6/2016
9100AK	6/7/2016 - 12/6/2016
9100AL	8/15/2016 - 12/6/2016
9100AM	9/29/2016 - 12/6/2016
9100AN	9/29/2016 - 12/6/2016
9200AA	12/7/2016 - 3/31/2017
9200AB	12/7/2016 - 3/31/2017
9200AC	12/7/2016 - 3/31/2017
9200AD	12/7/2016 - 3/31/2017
9200AE	12/29/2016 - 3/31/2017

CLIN - DELIVERIES OR PERFORMANCE

52.211-8 TIME OF DELIVERY (JUN 1997)

(a) The Government requires delivery to be made according to the following schedule:

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>WITHIN DAYS AFTER DATE OF TASK ORDER</u>
4000 & 6000	ALL	Through 06 December 2014
4001 & 6001	ALL	Through 06 December 2014
4002 & 6002	ALL	Through 06 December 2014
4003 & 6003	ALL	These CLINS are no longer valid.

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SECTION G CONTRACT ADMINISTRATION DATA

G175 TOM APPOINTMENT (AUG 2005)

(a) Task Order Ordering Officer hereby appoints the following individual as the Contracting Officer's Representative and Alternate Contracting Officer's Representative for this task order:

Contracting Officer's Representative

Navy Surface Warfare Center
Detachment Cape Canaveral
740 Muller Drive
Building ATD, Floor 1
Cape Canaveral, FL 32920

Ddl-G-21 TYPES OF ORDERS UNDER INDEFINITE DELIVERY TYPE CONTRACTS

This Task Order shall be issued on a Cost-Plus-Fixed-Fee (Term) basis.

In accordance with (DFARS) PGI 204.7108 "Other"(d) (12) INVOICING AND PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS

Consistent with clause HQ G-2-0006 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CITATIONS(b)(12)/Other (ALTERNATE 1) (NAVSEA) (JAN 2008), which is in your basic Separation-e contract, the following payment instructions apply to this task order:

- a) This requirement includes support for multiple programs with independent budgets and funding lines. These funding lines are NOT interchangeable and it is critical that the Paying Office pay in accordance with the ACRNs and SLINs noted on the contractor's invoices. To do otherwise could result in a misappropriation of funds.
- b) The Payment Office shall ensure that each payment under this contract is made in accordance with the specific accounting classification reference numbers (ACRNs) and Sub-CLIN (SLIN) numbers shown on each individual invoice, including attached data.

HQ G-2-0007 INVOICE INSTRUCTIONS (NAVSEA) (JAN 2008)

- (a) In accordance with the clause of this contract entitled "ELECTRONIC SUBMISSION OF PAYMENT REQUESTS" (DFARS 252.232-7003), the Naval Sea Systems Command (NAVSEA) will utilize the DoD Wide Area Workflow Receipt and Acceptance (WAWF) system to accept supplies/services delivered under this contract. This web-based system located at <http://wawf.eb.mil> provides the technology for government contractors and authorized Department of Defense (DoD) personnel to generate, capture and process receipt and payment-related documentation in a paperless environment. Invoices for supplies/services rendered under this contract shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices may no longer be accepted for payment.
- (b) It is recommended that the person in your company designated as the Central Contractor Registration (CCR) Electronic Business (EB) Point of Contact and anyone responsible for the submission of invoices, use the online training system for WAWF at <http://wawftraining.com>. The Vendor, Group Administrator (GAM), and sections marked with an asterisk in the training system should be reviewed. Vendor Quick Reference Guides also are available at <http://acquisition.navy.mil/navyacs/content/view/full/2521>. The most useful guides are "Getting Started for Vendors" and "WAWF Vendor Guide".
- (c) The designated CCR EB point of contact is responsible for activating the company's CAGE code on WAWF by calling 1-866-618-5988. Once the company is activated, the CCR EB point of contact will self-register under the company's CAGE code on WAWF and follow the instructions for a group administrator. After the company is set-up on WAWF, any additional persons responsible for submitting invoices must self-register under the company's CAGE code at <http://wawf.eb.mil>.
- (d) The contractor shall use the following document types, DODAAC codes and inspection and acceptance locations when submitting invoices in WAWF:

Type of Document (contracting officer check all that apply)

- Invoice (FFP Supply & Service)
- Invoice and Receiving Report Combo (FFP Supply)
- Invoice as 2-in-1 (FFP Service Only)
- Cost Voucher (Cost Reimbursable, T&M, LH, or FPI)
- Receiving Report (FFP, DD250 Only)

DODAAC Codes and Inspection and Acceptance Locations (contracting officer complete appropriate information as applicable)

Issue DODAAC	N00167
Admin DODAAC	S2404A
Pay Office DODAAC	HD0338
Inspector DODAAC	N/A
Service Acceptor DODAAC	N/A
Service Approver DODAAC	N00167
Ship To DODAAC	N00167
DCAA Auditor DODAAC	HAA50W
LPO DODAAC	N/A
Inspection Location	See Section E
Acceptance Location	See Section E

Attachments created in any Microsoft Office product may be attached to the WAWF invoice, e.g., backup documentation, timesheets, etc. Maximum limit for size of each file is 2 megabytes. Maximum limit for size of files per invoice is 5 megabytes.

(e) Before closing out of an invoice session in WAWF, but after submitting the document(s), you will be prompted to send additional email notifications. Click on "Send More Email Notification" and add the acceptor/receiver email addresses noted below in the first email address block, and add any other additional email addresses desired in the following blocks. This additional notification to the government is important to ensure that the acceptor/receiver is aware that the invoice documents have been submitted into WAWF.

Send Additional Email Notification To:

- (f) The contractor shall submit invoices/cost vouchers for payment per contract terms and the government shall process invoices/cost vouchers for payment per contract terms. Contractors approved by DCAA for direct billing will submit cost vouchers directly to DFAS via WAWF. Final voucher submission will be approved by the ACO.
- (g) The WAWF system has not yet been implemented on some Navy programs; therefore, upon written concurrence from the cognizant Procuring Contracting Officer, the Contractor is authorized to use DFAS's WInS for electronic end to end invoicing until the functionality of WInS has been incorporated into WAWF.
- (h) If you have any questions regarding WAWF, please contact the WAWF helpdesk at the above 1-866 number or the NSWCDD WAWF point of contact at (301) 227-5419.

(End of Clause)

SEA 5252.216-9122 LEVEL OF EFFORT (DEC 2000)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract shall be 73,630 total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort.

(b) Of the total man-hours of direct labor set forth above, it is estimated that 0 (to be identified at the task order level) man-hours are uncompensated effort.

Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work. All other effort is defined as compensated effort. If no effort is indicated in the first sentence of this paragraph, uncompensated effort performed by the Contractor shall not be counted in fulfillment of the level of effort obligations under this contract.

(c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as (local travel to and from an employee's usual work location), uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee's residence or other non-work locations (except as provided in paragraph (j) below), or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.

(d) The level of effort for this contract shall be expended at an average rate of approximately 1,416 hours per week. It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.

(e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man hours of effort specified above would be used prior to the expiration of the term hereof, the Contractor shall notify the Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(f) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor each that the total man hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(g) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the period of this contract, the Contracting Officer, at its sole discretion, shall either (i) reduce the fee of this contract as follows:

Fee Reduction = Fee/(Required LOE minus Expended LOE/divided by Required LOE)

or (ii) subject to the provisions of the clause of this contract entitled "LIMITATION OF COST" (FAR 52.252-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.252-21), as applicable, require the Contractor to continue to perform the work until the total number of man hours of direct labor specified in paragraph (a) above shall have been expended, at no increase in the fee of this contract.

(h) The Contractor shall provide and maintain an accounting system, acceptable to the Administrative Contracting Officer and the Defense Contract Audit Agency (DCAA), which collects costs incurred and effort (compensated and uncompensated, if any) provided in fulfillment of the level of effort obligations of this contract. The Contractor shall indicate on each invoice the total level of effort claimed during the period covered by the invoice, separately identifying compensated effort and uncompensated effort, if any.

(i) Within 45 days after completion of the work under each separately identified period of performance hereunder, the Contractor shall submit the following information in writing to the Contracting Officer with copies to the cognizant Contract Administration Office and to the DCAA office to which vouchers are submitted: (1) the total number of man hours of direct labor expended during the applicable period; (2) a breakdown of this total showing the number of man hours expended in each direct labor classification and associated direct and indirect costs; (3) a breakdown of other costs incurred; and (4) the Contractor's estimate of the total allowable cost incurred under the contract for the period. Within 45 days after completion of the work under the contract, the Contractor shall submit, in addition, in the case of a cost underbar: (5) the amount by which the estimated cost of this contract may be reduced to recover excess funds and, in the case of an underbar in hours specified as the total level of effort; and (6) a calculation of the appropriate fee reduction in accordance with this clause. All submissions shall include subcontractor information.

(j) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish man hours up to five percent in excess of the total man hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fee is required.

(End of Clause)

SEA 5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract line item number/contract subline item number (CLIN/SLIN), subject to the clause entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE" (FAR 52.216-10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As provided in the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232-22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

ESTIMATED COST(S) ALLOTTED TO COST ALLOTTED TO FEE PERIOD OF PERFORMANCE

CLIN/SLIN	ESTIMATED COST	ALLOTTED TO COST	ALLOTTED TO FEE	PERIOD OF PERFORMANCE
4000	████████	████████	████████	06 December 2014
4001	████████	████████	████████	06 December 2014
4002	████████	████████	████████	06 December 2014
6000	\$ 115,000.00	n/a	████████	06 December 2014
6001	\$ 658,250.00	n/a	████████	06 December 2014
6002	\$ 7,571,282.25	n/a	████████	06 December 2014
7000 and 9000	See Section B	See Section B	See Section B	
7100 and 9100	See Section B	See Section B	See Section B	
7200AB	████████	████████	████████	Through 31 March 2017
7200AC	████████	████████	████████	Through 31 March 2017
7200AD	████████	████████	████████	Through 31 March 2017
7200AE	████████	████████	████████	Through 31 March 2017
9200AB	\$ 57,500.00	n/a	████████	Through 31 March 2017
9200AC	\$ 213,847.00	n/a	████████	Through 31 March 2017
9200AD	\$ 402,653.00	n/a	████████	Through 31 March 2017
9200AE	\$89,000.00	n/a	████████	Through 31 March 2017

(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable.

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the cost of performance of fully funded CLINs/SLINs.

(End of Clause)

Accounting Data	Amount
SLIPED FR Number	
400001 18741990	170000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710037603	
400002 14664453	180000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710037602	
400001 10741990	30000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710037601	
400002 14664453	45000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710037602	
BASE Funding 410000.00	
Cumulative Funding 410000.00	
MDD 01	
400003 11891087	15000.00
LIA V	
AC 1711319 W4MJ 255 08397 0 050120 2D 000000 A0000652920	
Standard Number: W00024118X01016/AA PR# 140017822	
400004 11891144	10000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710037602	
400005 11943629	90000.00
LIA V	
AC 1711319 W4MJ 255 08397 0 050120 2D 000000 A0000652920	
Standard Number: W00024118X01016/AA PR# 140017822	
400001 11891087	10000.00
LIA V	
AC 1711319 W4MJ 255 08397 0 050120 2D 000000 A0000652920	
Standard Number: W00024118X01016/AA PR# 140017822	
400004 11943629	10000.00
LIA V	
AC 1711319 W4MJ 255 08397 0 050120 2D 000000 A0000652920	
Standard Number: W00024118X01016/AA PR# 140017822	
MDD 01 Funding 150000.00	
Cumulative Funding 560000.00	
MDD 02	
400006 21181018	30000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710071209	
400007 21181018	5000.00
LIA V	
AM 9724930 NMLC 000 77777 0 000167 2P 000000 111710071209	
MDD 02 Funding 40000.00	
Cumulative Funding 600000.00	
MDD 03	
400007 12384082	348974.00
LIA V	
AM 1721804 70CB 252 42853 0 088566 2D XFD082 628512CM05Q	
Standard Number: W8285112MXP0082/AA	
400008 12384082	5000.00
LIA V	
AM 1721804 70CB 252 42853 0 088566 2D XFD082 628512CM05Q	
Standard Number: W8285112MXP0082/AA	
MDD 03 Funding 353974.00	
Cumulative Funding 953974.00	
MDD 04	
400008 1300251839	60000.00
LIA V	
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MDD 08	
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MCD 09 Funding 1236400.00
Cumulative Funding 4334876.00

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Cumulative Funding 9384112.00

MCD 17 Funding 0.00
Cumulative Funding 9384112.00

MCD 18

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Only work uniquely and specifically identifiable to FPG Case Number JA-P-PTY is chargeable to this SLIW.
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MOD 27 Funding 2770000.00
Cumulative Funding 2185483.60
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MCD 31 Funding 1246711.00
Cumulative Funding 28220650.60

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Cumulative Funding 30511129.60

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MCD 45 Funding -192201.42
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SECTION H SPECIAL CONTRACT REQUIREMENTS

H-5 Task Order Process.

Ombudsman Description.

In accordance with FAR 16.505(a)(9), no protest under FAR Subpart 33.1 is authorized in connection with PCO decisions regarding fair opportunity or the issuance of a TO under this contract, except for a protest on the grounds that a TO increases the scope, period, or maximum value of the contract. The Local Warfare Center Site Deputy for Small Business has been designated as the NAVSEA and related Program Executive Offices Ombudsman for this contract. The NSWCCD Ombudsman will review complaints from the contractors and ensure that all contractors are afforded a fair opportunity to be considered, consistent with the procedures in the contract. Complaints to the NSWCCD Ombudsman must be forwarded to:

Ms. Irene Katacinski

Email: irene.katacinski@navy.mil

Telephone: 215-897-7596

CAR-H09 Performance-Based Acquisition Evaluation Procedures for a SeaPort e Task Order (MAR 2006) (NSWCCD)

(a) Introduction: The contractor's performance on this task order will be evaluated by the Government, in accordance with this task order clause. The first evaluation will cover the period ending twelve months after the date of task order award with successive evaluations being performed for each twelve-month period thereafter until the contractor completes performance under the task order. Based on the evaluation results, the PCO will assign an overall performance rating in accordance with paragraph (b) of this clause. The purpose of the evaluation is to determine remedies that may be invoked due to "Unsatisfactory" performance. If the PCO assigns an "Unsatisfactory" performance rating for the period evaluated, the PCO may take unilateral action, in accordance with clause 52.246-5 entitled "Inspection of Services-Cost Reimbursement", dated Apr 1984, in Section E of the base contract, to provide for a fee reduction covering the performance period evaluated. This clause provides the basis for evaluation of the contractor's performance and for determining if the fee amount should be reduced due to "Unsatisfactory" performance.

(b) Performance Ratings: The Government will evaluate the contractor's performance of the Statement of Work under the task order for each twelve month period of performance, using the measurable performance standards set forth in the Performance Requirements Summary Table in the SOW, or elsewhere in the task order, and the PCO will assign one of the following ratings:

- (1) Excellent
- (2) Very Good
- (3) Satisfactory
- (4) Unsatisfactory

The standards associated with these ratings are given in the following Table 1.

Table 1: Overall Performance Ratings

For The Evaluation Period

Overall
Performance Standard
Rating

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Excellent	“Excellent” ratings for all performance evaluation criteria.
Very Good	A combination of “Excellent” and “Satisfactory” ratings determined by the PCO to exceed Satisfactory” overall.
Satisfactory	A minimum of “Satisfactory” ratings for all performance evaluation criteria.
Unsatisfactory	A rating of “Unsatisfactory” for one or more performance evaluation criteria.

(c) Evaluation Objective: The purpose of the evaluation and the inclusion of a remedy to the Government for unsatisfactory contractor performance under this task order is to ensure that the Government receives at least “Satisfactory” overall performance.

(d) Performance Evaluation Criteria: The contractor’s performance will be evaluated on an annual basis using the criteria and standards provided for each task objective in the Performance Requirements Summary Table, and considering the criterion in Tables 2 through 4 of this task order clause.

(e) Organization: The performance evaluation organization consists of the Procuring Contracting Officer (PCO), who will serve as the Evaluation Official, and the Task Order Manager (ToM).

(1) ToM: The ToM will provide ongoing performance monitoring, evaluate task performance based on the task order Performance Requirements Summary, prepare the evaluation report, including a recommended overall performance rating, and submit the report to the PCO for final decision within thirty days after the end of the evaluation period. The ToM will maintain the written records of the contractor’s performance so that a fair and accurate evaluation is made.

(2) Procuring Contracting Officer (PCO): The PCO is responsible for properly administering the performance evaluation process, maintaining the official performance evaluation file, and making the decision about the overall performance rating and whether to reduce the fee if performance is rated as unsatisfactory.

(f) Evaluation Schedule: Each performance evaluation will cover the previous twelve months of performance. The Government will evaluate all work under the task order performed by the contractor during the twelve-month period. Following each evaluation period, the PCO (or Contract Specialist if so designated by the PCO) and the ToM will hold a meeting with the contractor’s Senior Technical Representative to review performance under the task order during the previous twelve months, including overall trends, specific problem areas, if any, and their resolution. Other Government and contractor personnel may also participate as deemed appropriate.

(g) Contractor’s Self-Evaluation: The contractor may also submit a Self-Evaluation Report for consideration. The report must include an overall performance rating for the task order, covering the evaluation period, and may include whatever information the contractor deems relevant to support that rating. The report shall not exceed two (2) pages in length.

(h) Performance Evaluation: The PCO will make the decision on the overall performance rating for the work performed under the task order within thirty days after receipt of the evaluation report from the ToM. The decision will be based upon the ToM’s recommendations, the contractor’s comments, including any Self-Evaluation Report, and any other information deemed relevant by the PCO. The PCO shall resolve disagreements between the ToM’s recommendations and the contractor’s comments/report regarding the evaluation. The PCO will provide a copy of the evaluation report, including the overall rating, to the contractor within five working days after completion of the evaluation.

(i) Contractor’s Review of the Evaluation Report: Contractors shall be given a minimum of 15 calendar days to submit comments, rebut statements, or provide additional information. The PCO shall consider the contractor’s submission and respond as appropriate. Although the PCO will consider the contractor’s comments, rebuttals, or additional information, the PCO may, or may not, change the overall rating. The decision to change the rating based on contractor input at this stage is solely at the discretion of the PCO.

(j) This performance evaluation does not replace any other requirement for evaluating contractor performance that

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may be required by the base contract, such as a Contractor Performance Assessment Reporting System (CPARS) report, or a Task Order Performance Evaluation (TOPE).

TABLE 2: TASK PERFORMANCE EVALUATION CRITERIA AND STANDARDS

Criterion	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Task Performance	Work product fails to meet Acceptable Quality Levels (AQLs) defined in Performance Requirements Summary Table (see SOW or elsewhere in the Task Order).	Work product routinely meets Acceptable Quality Levels (AQLs) defined in Performance Requirements Summary Table(see SOW or elsewhere in the Task Order).	Work product frequently exceeds Acceptable Quality Levels (AQLs) defined in Performance Requirements Summary Table (see SOW or elsewhere in the Task Order).
Staffing	Contractor provides marginally qualified or unqualified personnel. Lapses in coverage occur regularly.	Contractor provides qualified personnel. Lapses in coverage may occasionally occur and are managed per individual task order policy.	Contractor provides highly qualified personnel. Contractor reassigns personnel to ensure proper coverage. Actual lapses in coverage occur very rarely, if ever, and are managed per individual task order policy. Contractor ensures staff training remains current.
Timeliness	Contractor frequently misses deadlines, schedules, or is slow to respond to government requests or is non-responsive to government requests.	Contractor routinely meets deadlines, schedules, and responds quickly to government requests.	Contractor always meets deadlines, schedules, and responds immediately to government requests.
Customer Satisfaction	Fails to meet customer expectations	Meets customer expectations.	Exceeds customer expectations.

TABLE 3: CONTRACT MANAGEMENT PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Problem Resolution	Problems are unresolved, repetitive, or take excessive government effort to resolve.	Problems are resolved quickly with minimal government involvement.	Problems are non-existent or the contractor takes corrective action without government involvement.
Responsiveness	Contractor's management is unresponsive to government requests and concerns.	Contractor's management is responsive to government requests and concerns.	Contractor's management takes proactive approach in dealing with government representatives and anticipates Government concerns.
Communications	Contractor often fails to communicate with government in an effective and timely manner.	Contractor routinely communicates with government in an effective and timely	Contractor takes a proactive approach such that communications are almost always clear,

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manner. effective, and timely.

TABLE 4: COST EFFICIENCY PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Cost Management	Contractor routinely fails to complete the effort within the originally agreed to estimated cost, i.e. cost overruns frequently occur.	Contractor routinely completes the effort within the originally agreed to estimated cost. Contractor provides measures for controlling all costs at estimated costs. Funds and resources are generally used in a cost-effective manner. No major resource management problems are apparent.	Reductions in direct costs to the Government below contract estimated costs are noteworthy. Contractor provides detailed cost analysis and recommendations to Government for resolution of problems identified. Funds and resources are optimally used to provide the maximum benefit for the funds and resources available. Documented savings are apparent.
Cost Reporting	Reports are generally late, inaccurate incomplete or unclear.	Reports are timely, accurate, complete and clearly written. Problems and/or trends are addressed, and an analysis is also submitted.	Reports are clear, accurate, and pro-active. Problems and/or trends are addressed thoroughly, and the contractor's recommendations and/or corrective plans are implemented and effective.

See Attachment - Performance Requirement Summary Table

CAR H11 – CONTRACTOR PERSONNEL SECURITY REQUIREMENTS (JAN 2010)

a. In accordance with SECNAV M-5510.30 Chapters 5 and 6, all Contractor personnel that require access to Department of Navy (DON) information systems and/or work on-site are designated Non-Critical Sensitive/IT-II positions, which require an open investigation or favorable adjudicated National Agency Check (NACLC) by the Industrial Security Clearance Office (DISCO). Investigations should be completed using the SF- 85 Form and the SF-87 finger print card. An interim clearance can be granted by the company Security Officer and recorded in the Joint Personnel Adjudication System (JPAS). An open investigation or favorable adjudication is required prior to issuance of a Common Access Card (CAC) card or a badge providing access to NSWCCD sites and buildings. If an unfavorable adjudication is determined by DISCO all access will be terminated.

b. Within 30 days after contract award, the Contractor shall submit a list of all Contractor personnel, including subcontractor employees, who will have access to DON information systems and/or work on-site at one of the NSWCCD sites. The Contractor shall e-mail acquisition.nswccd.fct@navy.mil to obtain the excel file that outlines the required format and content of the list. The Contractor will provide each employee's first name, last name, contract number, the NSWCCD technical code, work location, whether or not the employee has a CAC card and/or swipe card, the systems the employee can access (i.e., NMCI, RDT&E), and the name of the Contractor's local point of contact, phone number and email address. The excel file shall be submitted via email to

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acquisition.nswccd.fct@navy.mil and the Contracting Officer's Representative (COR) or Task Order Manager (TOM). Throughout the period of performance of the contract, the Contractor shall immediately provide an updated spreadsheet to acquisition.nswccd.fct@navy.mil and the COR/TOM when any Contractor personnel changes occur.

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SECTION I CONTRACT CLAUSES

52.217-9 Option to Extend the Term of the Contract (Mar 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor anytime within the period of performance of the task order provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 30 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 4 years.

(End of Clause)

52.222-41 Service Contract Act of 1965, As Amended

52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION

<u>Employee Class</u>	<u>Monetary Wage-Fringe Benefits</u>	<u>Task Order Labor Category</u>
23181 - Electronics Technician Maintenance I	\$ 26.15	Electronics Technician
23550 - Machinist, Maintenance	\$ 23.77	Mechanical Specialist
30062 - Drafter/CAD Operator II	\$ 19.07	Draftsman
01611 - Word Processor I	\$ 15.71	Technical Illustrator
47601 - Captain, Harbor Tug	\$ 257.88 (daily)	Boat Operator

(End of Clause)

CAR-I18 TECHNICAL INSTRUCTIONS (DEC 2001)

(a) Performance of the work hereunder may be subject to written technical instructions signed by the Task Order Manager. As used herein, technical instructions are defined to include the following:

(1) Directions to the Contractor that suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the statement of work.

(2) Guidelines to the Contractor that assist in the interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the general scope of work stated in the task order. Technical instructions may not be used to :

(1) assign additional work under the task order;

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- (2) direct a change as defined in the "Changes" clause of the base contract;
- (3) increase or decrease the contract price or estimated amount (including fee), as applicable, the level of effort, or the time required for task order performance; or
- (4) change any of the terms, conditions or specifications of the task order.

(c) If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the task order or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction unless and until the Contracting Officer notifies the Contractor that the technical instruction is within the scope of this task order.

(d) Nothing in the paragraph (c) of this clause shall be construed to excuse the Contractor from performing that portion of the task order statement of work which is not affected by the disputed technical instruction.

(End of Clause)

HQ C-2-0037 ORGANIZATIONAL CONFLICT OF INTEREST (NAVSEA) (JUL 2000)

(a) "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes Corporations, Partnerships, Joint Ventures, and other business enterprises.

(b) The Contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the Contractor does not have any organizational conflict of interest(s) as defined in paragraph (a).

(c) It is recognized that the effort to be performed by the Contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid this potential conflict of interest, and at the same time to avoid prejudicing the best interest of the Government, the right of the Contractor to participate in future procurement of equipment and/or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR 9.5.

(d) (1) The Contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the Government any information provided to the Contractor by the Government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the Government on a confidential basis by other persons. Further, the prohibition against release of Government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in Contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time.

(2) The Contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the Government any information generated or derived during or as a result of performance of this contract. This prohibition shall expire after a period of three years after completion of performance of this contract.

(3) The prohibitions contained in subparagraphs (d)(1) and (d)(2) shall apply with equal force to any affiliate of the Contractor, any subcontractor, consultant, or employee of the Contractor, any joint

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venture involving the Contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the Contractor. The terms of paragraph (f) of this Special Contract Requirement relating to notification shall apply to any release of information in contravention of this paragraph (d).

(e) The Contractor further agrees that, during the performance of this contract and for a period of three years after completion of performance of this contract, the Contractor, any affiliate of the Contractor, any subcontractor, consultant, or employee of the Contractor, any joint venture involving the Contractor, any entity into or with which it may subsequently merge or affiliate, or any other successor or assign of the Contractor, shall not furnish to the United States Government, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or subcontractor, any system, component or services, which is the subject of the work to be performed under this contract. This exclusion does not apply to any recompitation for those systems, components or services furnished pursuant to this contract. As provided in FAR 9.505-2, if the Government procures the system, component, or services on the basis of work statements growing out of the effort performed under this contract, from a source other than the contractor, subcontractor, affiliate, or assign of either, during the course of performance of this contract or before the three year period following completion of this contract has lapsed, the Contractor may, with the authorization of the cognizant Contracting Officer, participate in a subsequent procurement for the same system, component, or service. In other words, the Contractor may be authorized to compete for procurement(s) for systems, components or services subsequent to an intervening procurement.

(f) The Contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest, it shall make immediate and full disclosure in writing to the Contracting Officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action which the Contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the Contracting Officer in making a determination on this matter. Notwithstanding this notification, the Government may terminate the contract for the convenience of the Government if determined to be in the best interest of the Government.

(g) Notwithstanding paragraph (f) above, if the Contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become, aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the Contracting Officer, the Government may terminate this contract for default.

(h) If the Contractor takes any action prohibited by this requirement or fails to take action required by this requirement, the Government may terminate this contract for default.

(i) The Contracting Officer's decision as to the existence or nonexistence of an actual or potential organizational conflict of interest shall be final.

(j) Nothing in this requirement is intended to prohibit or preclude the Contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this contract; nor, shall this requirement preclude the Contractor from participating in any research and development or delivering any design development model or prototype of any such equipment. Additionally, sale of catalog or standard commercial items are exempt from this requirement.

(k) The Contractor shall promptly notify the Contracting Officer, in writing, if it has been tasked to evaluate or advise the Government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the Government's interest.

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(l) The Contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contractor" where appropriate.

(m) The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in this contract.

(n) Compliance with this requirement is a material requirement of this contract.

(End of Clause)

252.204-7000 DISCLOSURE OF INFORMATION (DEC 1991)

(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless—

(1) The Contracting Officer has given prior written approval; or

(2) The information is otherwise in the public domain before the date of release.

(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.

(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

(End of clause)

52.222-2 PAYMENT OF OVERTIME PREMIUMS (JULY 1990)

(a) The use of overtime is authorized under this contract if the overtime premium does not exceed \$0 or the overtime premium is paid for work—

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall—

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

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(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

(End of Clause)

252.239-7000 PROTECTION AGAINST COMPROMISING EMANATIONS (JUN 2004)

(a) The Contractor shall provide or use only information technology, as specified by the Government, that has been accredited to meet the appropriate information assurance requirements of—

(1) The National Security Agency National TEMPEST Standards (NACSEM No. 5100 or NACSEM No. 5100A, Compromising Emanations Laboratory Test Standard, Electromagnetics (U)); or

(2) Other standards specified by this contract, including the date through which the required accreditation is current or valid for the contract.

(b) Upon request of the Contracting Officer, the Contractor shall provide documentation supporting the accreditation.

(c) The Government may, as part of its inspection and acceptance, conduct additional tests to ensure that information technology delivered under this contract satisfies the information assurance standards specified. The Government may conduct additional tests—

(1) At the installation site or contractor's facility; and

(2) Notwithstanding the existence of valid accreditations of information technology prior to the award of this contract.

(d) Unless otherwise provided in this contract under the Warranty of Supplies or Warranty of Systems and Equipment clause, the Contractor shall correct or replace accepted information technology found to be deficient within 1 year after proper installations.

(1) The correction or replacement shall be at no cost to the Government.

(2) Should a modification to the delivered information technology be made by the Contractor, the 1-year period applies to the modification upon its proper installation.

(3) This paragraph (d) applies regardless of f.o.b. point or the point of acceptance of the deficient information technology.

(End of clause)

252.239-7001 INFORMATION ASSURANCE CONTRACTOR TRAINING AND CERTIFICATION (JAN 2008)

(a) The Contractor shall ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions in accordance with DoD 8570.01-M, Information Assurance Workforce Improvement Program. The Contractor shall meet the applicable information assurance certification requirements, including—

(1) DoD-approved information assurance workforce certifications appropriate for each category and level as listed in the current version of DoD 8570.01-M; and

(2) Appropriate operating system certification for information assurance technical positions as required by DoD 8570.01-M.

(b) Upon request by the Government, the Contractor shall provide documentation supporting the information assurance certification status of personnel performing information assurance functions.

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(c) Contractor personnel who do not have proper and current certifications shall be denied access to DoD information systems for the purpose of performing information assurance functions.

(End of clause)

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SECTION J LIST OF ATTACHMENTS

Service Contract Act (SCA) Wage Determination #05-2117

DD Form 254

Performance Requirements Table