

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE  
U

PAGE OF PAGES  
1 2

2. AMENDMENT/MODIFICATION NO.  
67

3. EFFECTIVE DATE  
29-Oct-2015

4. REQUISITION/PURCHASE REQ. NO.  
N66604-5327-4686-954

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

6. ISSUED BY CODE

N66604

7. ADMINISTERED BY (If other than Item 6) CODE

S2404A

NUWC, NEWPORT DIVISION  
1176 Howell Street, Building 1258  
Newport RI 02841-1706

DCMA Manassas  
14501 George Carter Way  
Chantilly VA 20151

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

Lockheed Martin Integrated Systems, Inc.  
1408 Stephanie Way  
Chesapeake VA 23320

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

[X]

10A. MODIFICATION OF CONTRACT/ORDER NO.

N00178-04-D-4079-N412

10B. DATED (SEE ITEM 13)

14-Sep-2006

CAGE CODE  
4FZ81

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.
<input type="checkbox"/>	
<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 43.103(a); FAR 52 232-22 LIMITATION OF FUNDS; MUTUAL AGREEMENT OF THE PARTIES
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

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

29-Oct-2015

29-Oct-2015

(Signature of person authorized to sign)

(Signature of Contracting Officer)

NSN 7540-01-152-8070

30-105

STANDARD FORM 30 (Rev. 10-83)

PREVIOUS EDITION UNUSABLE

Prescribed by GSA  
FAR (48 CFR) 53.243

CONTRACT NO. N00178-04-D-4079	DELIVERY ORDER NO. N412	AMENDMENT/MODIFICATION NO. 67	PAGE 2 of 2	FINAL
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## GENERAL INFORMATION

**Distribution:** [REDACTED]

**SCD:** C

**FSC:** H220

**NUWCDIVNPT Control #:** 153487

**NUWCDIVNPT Requisition #(s):** N66604-5327-4686-954

**NUWCDIVNPT POC:** [REDACTED]

The purpose of this modification is to Deobligate funding.

### SECTION B - Deobligate Funding as Follows:

Decrease SLIN 110302 **from \$256,556.87 by (\$517.81) to \$256,039.06**  
Decrease SLIN 310602 **from \$2,461.00 by (\$709.76) to \$1,751.24**  
Decrease SLIN 111002 **from \$484,240.00 by (\$45.14) to \$484,194.86**  
Decrease SLIN 311002 **from \$298,559.00 by (\$1.57) to \$298,557.43**  
Decrease SLIN 311205 **from \$247,387.00 by (\$868.40) to \$246,518.60**  
Decrease SLIN 110202 **from \$23,393.00 by (\$1,115.50) to \$22,227.50**  
Decrease SLIN 310103 **from \$2,760.00 by (\$1,928.70) to \$831.30**  
Decrease SLIN 110704 **from \$40,485.39 by (\$105.34) to \$40,380.05**  
Decrease SLIN 310703 **from \$226,411.70 by (\$2,664.21) to \$223,747.49**  
Decrease SLIN 110705 **from \$75,423.00 by (\$488.39) to \$74,934.61**  
Decrease SLIN 310704 **from \$70,110.00 by (\$6,286.09) to \$63,823.91**  
Decrease SLIN 110802 **from \$669,669.00 by (\$6,076.66) to \$663,592.34**  
Decrease SLIN 110503 **from \$230,301.68 by (\$11,856.71) to \$218,444.97**  
Decrease SLIN 310502 **from \$306,782.58 by (\$10,648.58) to \$296,134.00**  
Decrease SLIN 311006 **from \$96,589.00 by (\$8,876.42) to \$87,712.58**  
Decrease SLIN 110004 **from \$124,593.00 by (\$11,605.35) to \$112,987.65**  
Decrease SLIN 310603 **from \$61,410.22 by (\$46,934.44) to \$14,475.78**  
Decrease SLIN 310802 **from \$71,742.07 by (\$18,010.07) to \$53,732.00**  
Decrease SLIN 111104 **from \$176,840.00 by (\$1,300.45) to \$175,539.55**  
Decrease SLIN 111204 **from \$611,505.00 by (\$6,003.51) to \$605,501.49**  
Decrease SLIN 110706 **from \$89,000.00 by (\$207.71) to \$88,792.29**

**SECTION G -** LLAs A9/111002/110302/310602/311002, B1/110202/110704/110705/110802/310103/310703/310704, B8/110004/110503/310502/310603/311006, B9/111104/310802, C2/111204 and C5/110706, C6/311205 are decreased by this modification.

**FUNDING CHANGE:** As a result of the above deobligations, the total funding obligated for this task order is hereby **Decreased from \$50,612,243.04 by (\$136,250.81) to \$50,475,992.23.**

**Contractor's Statement of Release:** In consideration of the modification agreed regarding the deobligation of funds as cited above, the Contractor hereby releases the Government from any and all liability under this contract regarding further funding of SLINs 110004, 110202, 110302, 110503, 110704, 110705, 110706, 110802, 111002, 111104, 111204, 310103, 310502, 310602, 310603, 310703, 310704, 310802, 311002, 311006, 311205

All other task order terms and conditions remain unchanged.

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**SECTION B SUPPLIES OR SERVICES AND PRICES**

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

1000 SOAR/BSURE RANGE REFURBISHMENT- burdened labor \$0.00

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
1100	R425	SOW tasks A, S, K- all relating to SOAR refurbishment (OPN)	█	█	█	█	\$2,933,475.00
110001	R425	(OPN)					
110002	R425	B2 \$30,901 (OPN)					
110003	R425	A9 \$79,752 (relating to diving services) (OPN)					
110004	R425	B8 \$112,987.65 (\$124,593.00 - \$11,605.35 in Mod 67) (OPN)					
1101	R425	Option #1: SOW Tasks B and T (BSURE refurbishment) and tasks C and W (common to both SOAR and BSURE)- burdened labor (OPN)	█	█	█	█	\$3,118,232.00
110101	R425	A2 \$2,219,932 (OPN)					
110102	R425	A7 \$65,269 (OPN)					
110103	R425	B1 \$477,490 (OPN)					
110104	R425	B9 \$69,527.00 (OPN)					
110105	R425	C4 \$286,014.00 (OPN)					
1102	R425	Option #2: SOW Task L only (BSURE cable) (OPN)	█	█	█	█	\$77,788.00
110201	R425	Funding (A6) \$54,394.52 (\$54,395 - \$0.48 Mod 66) (OPN)					
110202	R425	B1 \$23,393 - \$1,115.50 = \$22,277.50 (Mod 67) (OPN)					
1103	R425	Option #3- SOW Task D only (SOAR) (OPN)	█	█	█	█	\$778,433.87
110301	R425	Funding ACRN A1 (OPN)					
110302	R425	A9 \$256,556.87- \$517.81 = \$256,039.06 (Mod 67) (OPN)					
1104	R425	Option #4- SOW Task E only (SOAR) (OPN)	█	█	█	█	\$1,969,979.10
110401	R425	Funding (A1): \$2,084,211- \$114,231.90 (mod. 50) = \$1,969,979.10 (OPN)					
110402	R425	Funding (A5): \$28,840-\$28,840 (mod. 50) = \$0 (OPN)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
1105	R425	Option #5- SOW Task F only (relating to SOAR refurbishment) (OPN)	■	■	■	■	\$1,188,647.10
110501	R425	Funding (A5) \$941,765.00 (OPN)					
110502	R425	A9 \$7,186 (hydrophone renumbering) (OPN)					
110503	R425	B8 \$218,444.97 (\$230,301.68 - \$11,856.71 in Mod 67) (OPN)					
1106	R425	Option #6- SOW Task G only (relating to SOAR refurbishment) (OPN)	■	■	■	■	\$3,444,685.25
110601	R425	A5 \$3,379,757.59 (\$3,444,685.25 - \$64,927.66 in Mod 66) (OPN)					
110602	R425	A9 \$10,225- \$10,225.00 (mod 50) = \$0 (OPN)					
1107	R425	Option #7- SOW Task H only (relating to BSURE refurbishment) (OPN)	■	■	■	■	\$1,602,007.39
110701	R425	Funding (A7) (OPN)					
110702	R425	Funding (A6) \$497,686.95 (\$500,387 - \$2,700.05 Mod 66) (OPN)					
110703	R425	Funding (A8) \$35,061.75 (\$35,437.00 - \$375.25 Mod 66) (OPN)					
110704	R425	B1 \$40,485.39 - \$105.34 = \$40,380.05 (Mod 67) for manufacture of five cable pans (OPN)					
110705	R425	B1 \$75,423.00 - \$488.39 = \$74,934.61 (Mod 67) (shift of BSURE panning efforts from CLIN 1109) (OPN)					
110706	R425	C5 \$89,000.00 - \$207.71 = \$88,792.29 (Mod 67) (OPN)					
110707	R425	C4 \$31,295.00 (OPN)					
110708	R425	C3 \$93,587.00 (OPN)					
110709	R425	C7 \$155,004.00 (OPN)					
1108	R425	Option #8- SOW Task I only (relating to BSURE refurbishment) (OPN)	■	■	■	■	\$928,669.00
110801	R425	B5 \$256,705.47 (\$259,000.00 - \$2,294.53 in Mod 66) (OPN)					
110802	R425	B1 \$669,669.00 - \$6,076.66 = \$663,592.34 (Mod 67) (OPN)					
1109	R425	Option #9- SOW Task J only (relating to BSURE refurbishment) (OPN)	■	■	■	■	\$2,147,658.00
110901	R425	B7 \$1,898,760.00 (OPN)					
110902	R425	C4 \$248,898.00 (OPN)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
1110	R425	Option #10- SOW Task M only (relating to SOAR refurbishment) (OPN)	█	█	█	█	\$2,539,727.10
111001	R425	Funding (A5) \$1,726,549.00 (\$1,726,550 - \$1.00 Mod 66) (OPN)					
111002	R425	A9 \$484,240 - \$45.14 = \$484,194.86 (Mod 67) (relating to diving services) (OPN)					
111003	R425	A9 \$519,846- \$224,532.06 = \$295,313.94 (modification 34) (OPN)					
111004	R425	B6 \$62,919.00- \$5,467.94 (mod. 34) - \$23,827.90 (mod. 50) = \$33,623.16 (OPN)					
1111	R425	Option #11- SOW Task N only (relating to BSURE refurbishment) (OPN)	█	█	█	█	\$2,734,958.00
111101	R425	Funding (A8) (OPN)					
111102	R425	C1 \$121,551.00 (OPN)					
111103	R425	C1 \$322,000.00 (OPN)					
111104	R425	B9 \$176,840.00 - \$1,300.45 = \$175,539.55 (Mod 67) (OPN)					
111105	R425	C1 \$352,461.00- \$159,678.00 (mod. 53) = \$192,783.00- 34,790.00 (mod. 63)= \$157,993.00 (OPN)					
1112	R425	Option #12- SOW tasks O, Q, U (all relating to SOAR refurbishment) (OPN)	█	█	█	█	\$3,254,003.00
111201	R425	\$2,383,755- \$605,542 = \$1,778,213.00 (modification 34) (OPN)					
111202	R425	A9 \$122,589 (relating to diving services) (OPN)					
111203	R425	C2 \$151,547.00 (\$76,341 for addit. SOAR OSS installation and \$75,206 as equitable adjustment for SEP 2009 Stop Work) (OPN)					
111204	R425	C2 \$611,505.00 - \$6,003.51 = \$605,501.49 (Mod 67) (for array #1 remanufacture) (OPN)					
111205	R425	C6 \$590,149 (for array #1 reinstallation) (OPN)					
1113	R425	Option #13- SOW tasks P, R, and V (all relating to BSURE refurbishment) (OPN)	█	█	█	█	\$1,651,504.00
111301	R425	C3 \$1,651,504.00 (OPN)					
1114	R425	Option #14- SOW task X only (relating to SOAR refurbishment) (OPN)	█	█	█	█	\$221,060.00

Option

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
1115	R425	OPTION #15- SOW task Y only (relating to BSURE refurbishment) (OPN)  Option	■	■	■	■	\$222,784.00

For ODC Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
3000		ODCs/material/travel (burdened)- for prime and subcontractors			\$0.00
3100	R425	SOW tasks A, S, and K (all of which relate to SOAR refurbishment) (OPN)	1.0	LO	\$5,050,671.00
310001	R425	A1 \$4,328,354 (OPN)			
310002	R425	A5 \$19,568 (OPN)			
310003	R425	B3 \$22,439 (OPN)			
310004	R425	B4 \$535,487.54 (\$539,224 - \$3,736.46 in Mod 66) (OPN)			
310005	R425	A9 \$98,394 (OPN)			
310006	R425	B2 \$5,717 (relating to diving services) (OPN)			
310007	R425	A9 \$30,627 (OPN)			
310008	R425	B8 \$6,348 (OPN)			
3101	R425	Option #1- SOW tasks B, T (relating to BSURE), and C and W (relating to both) (OPN)	1.0	LO	\$274,857.00
310101	R425	(OPN)			
310102	R425	Funding (A8) (OPN)			
310103	R425	B1 \$2,760 - \$1,928.70 = \$831.30 (Mod 67) (OPN)			
3102	R425	Option #2- SOW Task L only (BSURE- cable) (OPN)	1.0	LO	\$4,363,457.00
310201	R425	Funding (A6) \$3,155,817.83 (\$3,176,681.00 - \$20,863.17 in Mod 66) (OPN)			
310202	R425	A8 \$1,160,250.95 (\$1,186,776 - \$26,525.05 in Mod 66) (OPN)			
3103	R425	Option #3- SOW Task D only (SOAR) (OPN)	1.0	LO	\$458,601.95
3104	R425	Option #4- SOW Task E only (SOAR) (OPN)	1.0	LO	\$959,683.20
310401	R425	Funding (OPN)			
310402	R425	A5 \$21,994.41 (22,926.20 - \$931.79 in Mod 66) (OPN)			
3105	R425	Option #5- SOW Task F only (SOAR) (OPN)	1.0	LO	\$667,441.34
310501	R425	Funding (A5) \$358,193.00 (OPN)			
310502	R425	B8 \$296,134.00 (\$306,782.58 - \$10,648.58 in Mod 67) (OPN)			
3106	R425	Option #6- SOW Task G only (SOAR) (OPN)	1.0	LO	\$2,844,179.22
310601	R425	Funding (OPN)			

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
310602	R425	A9 \$2,461 - \$709.76 = \$1,751.24 (Mod 67) (OPN)			
310603	R425	B8 \$61,410.22 - \$46,934.44 (Mod 67) = \$14,475.78 (OPN)			
3107	R425	Option #7- SOW task H only (BSURE) (OPN)	1.0	LO	\$1,290,249.70
310701	R425	Funding (A7) (OPN)			
310702	R425	Funding (A8) \$173,875.39 (\$176,848 - \$2,972.61 in Mod 66) (OPN)			
310703	R425	B1 \$226,411.70 - \$2,664.21 = \$223,747.49 (Mod 67) for manufacture of five cable pans (OPN)			
310704	R425	B1 \$70,110 - \$6,286.09 = \$63,823.91 (Mod 67) (transfer of BSURE panning efforts from CLIN 3109) (OPN)			
3108	R425	Option #8- SOW Task I only (BSURE) (OPN)	1.0	LO	\$371,150.07
310801	R425	Funding (A8) (OPN)			
310802	R425	B9 \$71,742.07 - \$18,010.07 = \$53,732.00 (Mod 67) (OPN)			
3109	R425	Option #9- SOW Task J only (BSURE) (OPN)	1.0	LO	\$1,731,054.00
310901	R425	B7 \$2,144,360.00- \$281,022 (mod. 53) = \$1,863,338- \$132,284.00 (mod. 63) = \$1,731,054.00 (OPN)			
3110	R425	Option #10- SOW Task M only (SOAR) (OPN)	1.0	LO	\$1,239,992.98
311001	R425	Funding (A5) (OPN)			
311002	R425	A9 \$298,559 - \$1.57 = \$298,557.43 (Mod 67) (relating to diving services) (OPN)			
311003	R425	A9 \$51,065- \$4,488.02 (mod. 50) = \$46,576.98 (OPN)			
311004	R425	A9 \$19,813 (extra horizontal directional drilling) (OPN)			
311005	R425	B6 \$8,960.00 (on-site preparation equit. adjtmt) (OPN)			
311006	R425	B8 \$96,589 - \$8,876.42 = \$87,712.58 (Mod 67) (OPN)			
3111	R425	Option #11- SOW Task N only (BSURE) (OPN)	1.0	LO	\$1,225,657.00
311101	R425	Funding (A8) (OPN)			
311102	R425	C1 \$544,660.00- \$75,423 (mod. 53) = \$469,237- \$56,694.00 (mod 63) = \$412,543.00 (OPN)			
311103	R425	B9 \$14,536.00- \$14,536.00 (mod 63) = \$0 (OPN)			
3112	R425	Option #12- SOW tasks O, Q, and U- all relating to SOAR (OPN)	1.0	LO	\$1,268,953.00
311201	R425	\$248,482 (OPN)			
311202	R425	A9 \$652,524 (relating to diving services) (OPN)			
311203	R425	C2 \$61,086.00 (\$39,456 for addit. SOAR OSS installation and \$21,630 as equitable adjustment for SEP 2009 Stop Work) (OPN)			
311204	R425	C2 \$59,474.00 (array #1 remanufacture) (OPN)			
311205	R425	C6 \$246,518.60 (\$247,387 - \$868.40 Mod 67) (array #1 reinstallation) (OPN)			
3113	R425	Option #13- SOW tasks P, R, and V- all relating to BSURE) (OPN)	1.0	LO	\$633,717.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
311301	R425	C3 \$464,751.00 (OPN)			
311302	R425	C7 \$168,966.00 (OPN)			
3114	R425	Option #14- SOW Task X only (SOAR) (OPN) Option	1.0	LO	\$52,443.00
3115	R425	Option #15- SOW Task Y only (BSURE) (OPN) Option	1.0	LO	\$9,557.00

#### B42S OPTIONS (JUN 2005)

The additional items of supplies or services available under the Options clause of this task order, the applicable Line Item, and the exercise dates are specified below:

Option No.	Exercise Date - No Later Than	CLINs
1	by 30 SEP 2006	1101 and 3101
2	by 30 SEP 2006	1102 and 3102
3	within 60 days of Government approval of SOAR PDR meeting minutes	1103 and 3103
4	within 30 days of Government approval of SOAR CDR meeting minutes	1104 and 3104
5	within 30 days of Government approval of SOAR CDR meeting minutes	1105 and 3105
6	within 30 days of Government approval of SOAR CDR meeting minutes	1106 and 3106
7	within 90 days of Government approval of BSURE CDR meeting minutes	1107 and 3107
8	within 90 days of Government approval of BSURE CDR meeting minutes	1108 and 3108
9	by 31 MAR 2009	1109 and 3109
10	within 60 days of Government approval of SOAR CDR meeting minutes	1110 and 3110
11	within 90 days of Government approval of BSURE CDR meeting	1111 and 3111



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- minutes
- 12 within 300 days of Government approval of SOAR Refurbishment FAT Report 1112 and 3112
- 13 **by 10 FEB 2010** within 300 days of Government approval of SOAR Refurbishment FAT Report 1113 and 3113
- 14 within 60 days of Government approval of BSURE Refurbishment FAT Report 1114 and 3114
- 15 within 60 days of Government approval of BSURE Refurbishment FAT Report 1115 and 3115

#### B43S OPTIONS AND BASIC AWARD TERM (JAN 05)

This task order contains options that, if exercised, would go beyond the current contract period of performance. The Government and the Contractor agree that no option will be exercised that exceeds the contract period of performance.

#### B50S PAYMENT OF FIXED FEE - COMPLETION

The fixed fee specified herein, subject to any adjustment required by other provisions of this contract, will be paid in installments to be paid at the time of each provisional payment on account of the allowable cost, the amount of each such payment of fee to be in the same ratio to the total fixed fee as the related provisional payment on account of allowable cost is to the total estimated cost of the order. The balance of the fixed fee will be paid in accordance with other clauses of this contract.

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## SECTION C DESCRIPTIONS AND SPECIFICATIONS

### STATEMENT OF WORK

#### 1.0 BACKGROUND

##### 1.1 SOAR

The Southern California Offshore Range (SCORE), located at Fleet Area Control and Surveillance Facility, Naval Air Station NAS North Island California, provides tactical range training and testing services to U.S. Navy units of the Pacific Fleet. The Southern California Anti-Submarine Warfare Range (SOAR), the undersea component of SCORE, routinely supports Pacific Fleet Undersea Warfare (USW) training exercises. SOAR encompasses approximately 670 square nautical miles (nm<sup>2</sup>) of three-dimensional (3D) underwater tracking areas, located 68 nautical miles (nm) off the coast of San Diego. The range routinely supports air, surface, and subsurface unit-level torpedo firing exercises as well as inner and middle zone battle group training.

The last major installation at SOAR occurred in 1991. Since that time, several hydrophones and underwater communication projectors have failed and continue to fail. In particular, recent electrical tests indicate some intermittent operating capability in a few projectors. Additionally, there has been numerous cable failures located in water depths from 0-49 meters (m), which resulted from man-made damage mostly due to anchors. It is anticipated that the current assets will continue to degrade and eventually render SOAR inoperable.

##### 1.2 BSURE

The Pacific Missile Range Facility (PMRF) is the world's largest instrumented multi-environment range capable of supporting surface, sub-surface, air, and space operations simultaneously. Over 1,100 square miles of instrumented underwater range makes PMRF a premier facility for supporting Navy training operations, which vary from small, single-unit exercises up to large, multiple-unit battle group scenarios. The PMRF underwater range consists of three ranges, varying from shallow water to deep-water depth. The largest of these ranges, the Barking Sands Undersea Range Expansion (BSURE), consists of eighteen hydrophones multiplexed on two cables, and two underwater communication units, each independently cabled. There are four coaxial cables that total approximately 125 nautical miles (nmi). The water depths of BSURE vary from 6,000 to 15,000 feet.

The original BSURE system was installed in the late 1970's and early 1980's. All four cables in the near-shore area are severely degraded, due to swell-induced damage. All cables were replaced out to approximately the 200 foot water depth in 1998. An underwater communication unit failed in 1999 and was replaced in 2001. There are currently no problems with BSURE; however, the system is nearing the end of its design service life of 20-years.

#### 2.0 SCOPE

This Statement of Work (SOW) addresses the system production engineering, integration and manufacturing of an Ocean Sensor Subsystem (OSS) for water depths from 0-2,000-m and 2,000-5,000-m, as well as the engineering of a common Shore Electronics Subsystem (SES). The OSS and SES shall be utilized to refurbish two major undersea tracking ranges in the Pacific Ocean: the Southern California Anti-Submarine Warfare Range (SOAR) and the Barking Sands Underwater Range Expansion (BSURE). This SOW further addresses the necessary tasks to manufacture and install the necessary components to refurbish the current OSS and SES for the SOAR range in accordance with the Performance Specification. As a task order option, this SOW also addresses the manufacture and installation of the necessary components needed to replace the current OSS and SES of the BSURE range in accordance with the Performance Specification. The manufacturing and installation tasks in this SOW for the SOAR Refurbishment and for the BSURE Refurbishment will be exercised only after the Government has obtained the necessary environmental approvals and permits.

#### 3.0 APPLICABLE DOCUMENTS

The contractor shall acquire all documents within this section. If applicable, copies of MIL-SPECs are available online at <http://assist.daps.dla.mil/quicksearch/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

##### 3.1 STANDARDS

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- o ANSI S1.20-1988 Calibration of Underwater Electro-Acoustic Transducers
- o NFPA-70-1990 National Electric Code
- o EIA STD RS-310-C-77 Electronic Industries Association Document: Racks, Panels, and Associated Equipment
- o IEC 60228 Conductors of Insulated Cables
- o IEC 60502 Extruded Solid Dielectric Insulated Power Cables for Rated Voltages from 1-kV up to 30-kV
- o IEC 60811 Measurements of Thickness and Overall Dimensions Test for Determining the Mechanical Properties
- o IEC 794 Optical Fiber Cables, Part 1. Generic Specification
- o BS 5099 Specification for Spark Testing of Electrical Cables
- o NAVAIRINST 5000.21 Program/Project Risk Management

Dated 25 June 03

- o ASTM B348 Standard Specification for Titanium and Titanium Alloy Bars and Billets
- o ASTM B265 Standard Specification for Titanium and Titanium Alloy Strip, Sheet and Plate.

### 3.2 REFERENCE DOCUMENTS

- o Telcordia BELL-TR-332 Reliability Prediction Procedure for Electronic Equipment, May 31, 2001
- o Naval Facilities Engineering Command (NAVFAC) P-307 – Management of Weight Handling Equipment
- o Occupational Safety and Health Administration (OHSA) for General Industry (46 CFR Part 1910) S9086-T4-STM-010/CH-589 (Cranes), section 589-3.7
- o International Maritime Organization, Code of Safe Practice for Cargo Stowage and Securing, November 1991 by resolution A.714(17)
- o International Maritime Organization, 1994/1995 Amendments to the Code of Safe Practice for Cargo Stowage and Securing, Annex 13
- o MIL-HDBK-338B Electronic Reliability Design Handbook
- o MIL-HDBK-454A General Guidelines for Electronic Equipment
- o MIL-HDBK-251 Reliability/Design Thermal Applications
- o MIL-STD-810F Change Notice 3, Environmental Engineering Considerations and Laboratory Tests
- o MIL-HDBK-2164A Environmental Stress Screening Process for Electronic Equipment
- o MIL-HDBK-217F Change Notice 2, Reliability Description of Electronic Equipment
- o MIL-HDBK-419A Grounding and Shielding for Electronic Equipments and Facilities, Volumes 1 and 2

### 3.3 OTHER DOCUMENTS, DRAWINGS AND PUBLICATIONS

- o Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment (dated: Feb, DD, 2006)

### 4.0 REQUIREMENTS

The contractor shall execute the identified tasks described below in accordance with the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment and any other documents and specifications referenced within this task order.

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The requirements consist of tasks for system production engineering, manufacture, installation, integrated logistics support elements, spares and program management. Shallow water is defined as 0 to 2,000-m. Deep water is defined as 2,000 to 5,000-m.

#### 4.1 TASK A: OCEAN SENSOR SYSTEM PRODUCTION ENGINEERING – SHALLOW WATER (BASIC BUY) (SOAR)

The Contractor shall perform the detailed shallow water OSS design in accordance with the Performance Specification. The Contractor shall also develop engineering drawings that depict the final electrical, mechanical, and functional design of the system as defined during the detailed design phase. The detailed design shall include the following:

- a) OSS including each type of acoustic sensors (Receive-only, Low Frequency Transmit and High Frequency Transmit nodes) and Node Package
- b) Installation methodology and suitability of the system for deployment.

Review and subsequent approval of the design shall be conducted during a Preliminary Design Review (PDR), described in Paragraph 4.20.2 of this SOW, and a Critical Design Review (CDR), described in Paragraph 4.20.3 of this SOW.

##### 4.1.1 Acoustic Design Verification

During the Design phase of the program before the CDR, the Contractor shall demonstrate the acoustic performance of the proposed acoustic design of each type of sensor through verification testing. The test shall demonstrate that the acoustic sensors meet the sensitivity requirements, the beam pattern requirements, and the transmit level requirements; and that the housing and tether design do not interfere with the acoustic performance. The testing shall be conducted at the NUWC Acoustic Test Facility to be supplied as a GFF. The Contractor shall deliver a Test Procedure (Acoustic Design Verification Plan) in accordance with (IAW) Contract Data Requirements List (CDRL) A001 and a Test Report (Acoustic Design Verification Report) in accordance with CDRL A002.

##### 4.1.2 Engineering Drawings

The Contractor shall develop engineering drawings that depict the final electrical, mechanical, and functional design as defined during the detailed design phase. The drawings shall consist of schematics, assembly drawings, parts lists, and fabrication drawings for each assembly. The Contractor shall deliver Product Drawings/Models Associated Lists (Shallow Water OSS Engineering Drawings) IAW CDRL A003.

##### 4.1.3 Reliability and Maintainability

The Contractor shall conduct a Reliability Analysis for the in-water system. The Contractor shall develop reliability models representative of operation. The Contractor shall perform the analysis using data from Industry accepted reliability handbooks (Telcordia, MIL-HDBK-217, etc), field results, laboratory test data, or best engineering judgment in the absence of these data. The Contractor shall present the models and reliability estimates at the PDR, described in Paragraph 4.20.2 of this SOW, and the CDR, described in Paragraph 4.20.3 of this SOW. The Contractor shall deliver a Reliability Block Diagrams & Mathematical Models Report (Shallow Water Reliability Analysis) IAW CDRL A004.

The Contractor shall conduct a Failure Modes, Effects, and Criticality Analysis (FMECA) on the system from the functional level to the system level. The Contractor shall identify all potential item and interface failure modes and their effects determined on the immediate function, on the system and on the operation. Corrective design options, preventative operational or maintenance tasks to eliminate design or manufacturing risks, safety concerns and built-in test limitations shall be documented by the Contractor. The Contractor shall present the FMECA process at the PDR, described in Paragraph 4.20.2 of this SOW, and CDR, described in Paragraph 4.20.3 of this SOW, reviews. The Contractor shall deliver the Shallow Water OSS Failure Modes, Effects and Criticality Analysis Report IAW CDRL A005.

The Contractor shall develop and maintain a Critical Items List. Critical Items include high risk technology, potential obsolescence, short shelf life, sole source items, and special handling requirements. The Contractor shall identify, analyze and minimize the reliability impact of all critical items. The Contractor shall present the status

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shall be presented at each technical review. The Contractor shall deliver the Critical Items List (Shallow Water Critical Items List) IAW CDRL A006.

#### 4.1.4 Engineering Change Proposals

The Contractor shall formally request any changes to the design that occur after the PDR, described in Paragraph 4.20.2 of this SOW, that:

a. impact meeting the requirements in the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment

b. add additional features that are not specifically detailed in the SOW or the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.1.5 Installation Planning

The contractor shall perform sea shore interface planning. The Contractor shall deliver a SOAR Refurbishment Sea Shore Interface Installation Plan IAW CDRL A008. The planning shall address the directional drilling, trunk cable deployment and stabilization. The planning shall also compare the technical, cost and schedule feasibility for single small diameter multiple bores versus a single large diameter bore containing multiple conduits. Geophysical information will be provided as GFI.

The Contractor shall perform the Installation Planning. The contractor shall perform installation related tasks that are associated with the plan preparation, i.e. visits to the vessel mobilization and staging area, vessel inspections, etc. The Contractor shall deliver An Installation-Engineering Plan (SOAR Sea Shore Interface Installation Plan) IAW CDRL A009. The Installation Plan shall identify both the at-sea and shore installation activities. The plan shall provide detailed drawings and address the items listed as follows:

- o Establishing the Mobilization and staging area (MASA) preparations, here the MASA is defined as the location for loading and unloading equipment aboard the installation vessel,
- o Cable route and payout schedule
- o Installation daily schedule
- o Installation vessel(s), boats, etc.
- o Cable installation methodology
- o Cable stabilization methodology
- o Cable payout and monitoring system(s)
- o Deployment vessel navigation system
- o Project demobilization
- o Use of Government furnished equipment
- o Installation training and safety plans
- o Means to grapple for the anchor should recovery be required
- o Contingency and risk mitigation plans.

The Contractor shall furnish a list of recommended installation attrition spares for use during the installation. The Contractor shall deliver a Proposed Spare Parts List (SOAR Refurbishment Installation Spares List) IAW CDRL A010. Upon Government approval of the list, the contractor shall purchase the initial spares.

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#### 4.2 TASK B: OCEAN SENSOR SYSTEM PRODUCTION ENGINEERING – DEEP WATER (OPTION #1) (BSURE)

The Contractor shall perform the detailed deep water OSS design in accordance with the Performance Specification. Deep water is defined as 2,000 to 5,000-m. The Contractor shall also develop engineering drawings that depict the final electrical, mechanical, and functional design of the system as defined during the detailed design phase. The detailed design shall include the following:

- a) OSS including Hydrophones (Receive-only, Low Frequency Transmit and High Frequency Transmit nodes) and Node Package
- b) Installation methodology and suitability of the system for deployment.

Review and subsequent approval of the design shall be conducted during a PDR, described in Paragraph 4.21.2 of this SOW, and a CDR, described in Paragraph 4.21.3 of this SOW.

##### 4.2.1 Acoustic Design Verification

During the Design phase of the program before the CDR, the Contractor shall demonstrate the acoustic performance of the proposed acoustic design of each type of sensor through verification testing of the proposed acoustic design of each type of sensor. The test shall demonstrate that the acoustic sensors meets the sensitivity requirements, the beam pattern requirements and the transmit level requirements, and that the housing and tether design do not interfere with the acoustic performance. The testing shall be conducted at the NUWC Acoustic Test Facility to be supplied as a GFF. The Contractor shall deliver a Test Procedure (Acoustic Design Verification Plan) IAW CDRL A011 and a Test/Inspection Report (Acoustic Design Verification Report) IAW CDRL A012.

##### 4.2.2 Engineering Drawings

The Contractor shall develop engineering drawings that will depict the final electrical, mechanical, and functional design as defined during the detailed design phase. The drawings shall consist of schematics, assembly drawings, parts lists, and fabrication drawings for each assembly. The Contractor shall deliver Product Drawings/Models Associated Lists (Deep Water Engineering Drawings) IAW CDRL A013.

##### 4.2.3 Reliability and Maintainability

The Contractor shall conduct a Reliability Analysis for the in-water system. The Contractor shall develop reliability models representative of operation. The Contractor shall perform the analysis using data from Industry accepted reliability handbooks (Telcordia, MIL-HDBK-217, etc) field results, laboratory test data, or best engineering judgment in the absence of these data. The Contractor shall present the models and reliability estimates at the PDR, described in Paragraph 4.21.2 of this SOW, and the CDR, described in Paragraph 4.21.3 of this SOW. The Contractor shall deliver a Reliability Block Diagrams & Mathematical Models report (Deep Water Reliability Analysis) IAW CDRL A014.

The Contractor shall conduct a Failure Modes, Effects, and Criticality Analysis (FMECA) on the system from the functional level to the system level. The Contractor shall identify all potential item and interface failure modes and their effects determined on the immediate function, on the system and on the operation. Corrective design options, preventive operational or maintenance tasks to eliminate design or manufacturing risks or failures associated with critical maintenance items, safety concerns and built-in test limitations shall be documented by the Contractor. The Contractor shall present the FMECA process at the PDR, described in Paragraph 4.21.2 of this SOW, and CDR, described in Paragraph 4.21.3 of this SOW, reviews. The Contractor shall deliver a Failure Modes, Effects and Criticality Analysis Report IAW CDRL A015.

The Contractor shall develop and maintain a Critical Items List. Critical Items include high risk technology, potential obsolescence, short shelf life, sole source items, and special handling requirements. The Contractor shall identify, analyze and minimize the reliability impact of all critical items. The Contractor shall present the status at each technical review. The Contractor shall deliver a Critical Items List (Deep Water Critical Items List) IAW CDRL A016.

##### 4.2.4 Engineering Change Proposals

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The Contractor shall formally request any changes to the design that occur after the PDR, described in Paragraph 4.21.2 of this SOW, that:

- a. impact meeting the requirements in the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.2.5 Installation Planning

The contractor shall perform sea shore interface planning. The Contractor shall deliver an Installation-Engineering Plan (BSURE Sea Shore Interface Installation Plan) IAW CDRL A017. The plan shall address the directional drilling, trunk cable deployment and stabilization. Geophysical information will be provided as GFI. The plan shall also compare the technical, cost and schedule feasibility for single small diameter multiple bores versus a single large diameter bore containing multiple conduits.

The Contractor shall perform the Installation Planning. The Contractor shall deliver an Installation-Engineering Plan (BSURE Installation Plan) IAW CDRL A018. The contractor shall perform installation related tasks that are associated with the plan preparation, i.e. visits to the vessel mobilization and staging area, vessel inspections, etc. The Installation Plan shall identify both the at-sea and shore installation activities. The plan shall provide detailed drawings and address the items listed as follows:

- a. Establishing the Mobilization and staging area (MASA) preparations, here the MASA is defined as the location for loading and unloading equipment aboard the installation vessel,
- b. Cable route and payout schedule
- c. Installation daily schedule
- d. Installation vessel(s), boats, etc.
- e. Cable installation methodology
- f. Cable stabilization methodology
- g. Cable payout and monitoring system(s)
- h. Deployment vessel navigation system
- i. Project demobilization
- j. Use of Government furnished equipment
- k. Installation training and safety plans
- l. Means to grapple for the anchor should recovery be required
- m. Contingency and risk mitigation plans.

The Contractor shall furnish a list of recommended installation attrition spares for use during the installation. The Contractor shall deliver a Proposed Spare Parts List (BSURE Refurbishment Installation Spares List) IAW CDRL A019. Upon Government approval of the list, the contractor shall purchase the initial spares.

#### 4.3 TASK C: SHORE ELECTRONICS SUBSYSTEM PRODUCTION ENGINEERING (OPTION #1)

The Contractor shall perform the detailed design in accordance with the Performance Specification. The SES design will be common for both the shallow and deep water OSS. The Contractor shall also develop engineering drawings that depict the final electrical, mechanical, and functional design of the system. The detailed design shall include the

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following:

a) Shore-based electronics including hardware and software

Review and subsequent approval of the design shall be conducted during a PDR, described in Paragraph 4.20.2 of this SOW, and a CDR, described in Paragraph 4.20.3 of this SOW.

#### 4.3.1 Engineering Drawings

The Contractor shall develop engineering drawings that will depict the final electrical, mechanical, and functional design as defined during the detailed design phase. The drawings shall consist of schematics, assembly drawings, parts lists, and fabrication drawings for each assembly. The Contractor shall deliver Product Drawings/Models Associated Lists (SES Engineering Drawings) IAW CDRL A020.

#### 4.3.2 Reliability

The Contractor shall conduct a Reliability Analysis for the SES. The Contractor shall develop reliability models. The Contractor shall develop an analysis using data from Industry accepted reliability handbooks (Telcordia, MIL-HDBK-217, etc) field results, laboratory test data, or best engineering judgment in the absence of these data. The Contractor shall present the models and reliability estimates at the PDR, described in Paragraph 4.20.2 of this SOW, and the CDR, described in Paragraph 4.20.3 of this SOW. The Contractor shall deliver a Reliability Block Diagrams & Mathematical Models Report (SES Reliability Analysis) IAW CDRL A021.

The Contractor shall develop and maintain a Critical Items List. Critical Items include high risk technology, potential obsolescence, short shelf life, sole source items, and special handling requirements. The Contractor shall identify, analyze and minimize the reliability impact of all critical items. The Contractor shall present the status of the Critical Items List at each technical review. The Contractor shall deliver a Critical Items List (SES Critical Items List) IAW CDRL A022.

#### 4.3.3 Engineering Change Proposals

The Contractor shall formally request any changes to the design that occur after the PDR, described in Paragraph 4.20.2 of this SOW, that:

- a. impact meeting the requirements in the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.3.4 Shore Electronics Spares List

The contractor shall furnish a list of recommended spares including quantity for the SES. The contractor shall perform a spares analysis to determine the most cost efficient method of sparing the SES over the expected lifetime of the system. This analysis shall be based on the results of the reliability study done on the system components and the corresponding expected component demands. As a result of the spares analysis, the contractor shall recommend whether the system should be spared with a one-time life of type buy, or by a readiness based sparing Performance Based Logistics (PBL) method (as defined in OPNAVINST 4442.5). The analysis shall take into account typical costs associated with PBL contracts, including impacts resulting from expected obsolescence of system components. The contractor shall estimate these cost impacts, including associated compatibility testing, integration, and technical documentation updates, where applicable. The Contractor shall deliver a Technical Report – Study Services (Life Cycle Support Analysis) IAW CDRL A023.

Following the determination of the life cycle support analysis, the Contractor shall conduct a Maintainability Analysis for the shore system, developing maintainability models. The Contractor shall provide estimates for repair time using historical data or engineering estimates for each module. The Contractor shall present the results at the PDR, described in Paragraph 4.20.2 of this SOW, and the CDR, described in Paragraph 4.20.3 of this SOW. The



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contractor shall deliver a Maintainability Predictions Report IAW CDRL A024.

With concurrence from the Government on the approach for life cycle spare support, the Contractor shall determine recommended spares based on the supportability analysis and the maintainability analysis. The Contractor shall deliver a Proposed Spare Parts List (SOAR SES Spare Parts List) IAW with CDRL A025 for the SOAR Refurbishment. The Contractor shall deliver a Proposed Spare Parts List (BSURE SES Spare Parts List) IAW with CDRL A026 for the BSURE Refurbishment.

#### 4.5 TASK D: PRODUCTION ENGINEERING PERFORMANCE VERIFICATION TESTING (OPTION #3)

The Contractor shall produce one complete 3-node OSS assembly and various sub assemblies. The 3-node assembly shall consist of three shallow water sensors (one each of a uni-directional, high frequency bi-directional and low frequency bi-directional). The 3-node OSS assembly internode cable lengths shall be determined by the contractor and may be shorter than the final length. This 3-node assembly shall be subjected to a Performance Verification Test in a salt water environment (i.e. a test facility or in flooded cable pans). If the contractor decides to test the 3-node assembly outside of a test facility, the contractor is responsible for all permits and environmental compliance. The government will only obtain approvals for the production ocean sensor system installation. The Contractor shall develop a test plan that describes the methods used to fulfill the requirements in Paragraph 4.3 of the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment. The Contractor shall deliver a Test Procedure (Performance Verification Plan) IAW CDR A027 and a Test/Inspection Report (Performance Verification Report) IAW CDRL A028.

The Contractor shall formally request any changes to the design that occur after the Deep Water PDR, described in Paragraph 4.21.2 of this SOW, that:

- a. impact meeting the requirements in the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification for Southern California Anti-Submarine Warfare Range (SOAR) Refurbishment and Barking Sands Underwater Expansion (BSURE) Refurbishment

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.6 TASK E: FABRICATION, ASSEMBLY AND TESTING OF THE CABLE TERMINATION INTEGRATED WITH THE CABLE – SOAR REFURBISHMENT (OPTION #4)

The Contractor shall fabricate the shallow water system in accordance with the drawings developed in Task A and the requirements of the Performance Specification. The Contractor shall integrate and test the system in accordance with the standards listed in Paragraph 3.1 of this SOW. The Contractor shall perform individual component and system level tests.

The Contractor shall deliver the Test Procedure (Shallow Water Termination Test Plan) IAW CDRL A029, and the Test/Inspection Report (Shallow Water Termination Test Report) IAW CDRL A030. The test plan shall include evaluation criteria to demonstrate that the testing meets the requirements. The Test Report shall include both prime and subcontractor test results.

Failure of the product in any stage of assembly or testing shall automatically classify the unit as non-compliant. The contractor shall determine the causes of the defect; take necessary action to correct the defect; and submit to the Government a Failure Analysis and Corrective Action Report (FACAR). The repaired production unit shall be subjected to retesting as defined in Paragraph 4.0 of the Performance Specification. If required the Contractor shall deliver a FACAR IAW CDRL A031.

The Contractor shall formally request any changes to the design that occur after the Shallow Water PDR that:

- a. impact meeting the requirements in the Performance Specification
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification

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If required, the Contractor shall deliver an Engineering Change Proposal IAW CDRL A007.

#### 4.7 TASK F: FABRICATION, ASSEMBLY AND TESTING OF THE SES – SOAR REFURBISHMENT (OPTION #5)

The Contractor shall fabricate the system in accordance with the drawings developed in Task C. The Contractor shall integrate and test the system in accordance with the standards listed in Paragraph 3.1 of this SOW and the requirements of the Performance Specification. The Contractor shall perform individual component and system level tests. The Contractor shall deliver the Test Procedure (SOAR Refurbishment SES Test Plan) IAW CDRL A032 and the Test/Inspection Report (SOAR Refurbishment SES Test Report) IAW CDRL A033. The test plan shall address how all the requirements listed in the Verification Matrix in Paragraph 4 of the Performance Specification have been met.

Failure of the product in any stage of assembly or testing shall automatically classify the unit as non-compliant. The contractor shall determine the causes of the defect; take necessary action to correct the defect; and submit to the Government a Failure Analysis and Corrective Action Report (FACAR). The repaired production unit shall be subjected to retesting as defined in Paragraph 4.0 of the Performance Specification. If required the Contractor shall deliver a FACAR IAW CDRL A031.

The Contractor shall deliver the command and control Graphical User Interface software code used in the Shore Support System. The Contractor shall deliver the Computer Software Product End Items (SOAR Refurbishment SES Software Source Code) IAW CDRL A034 and a Software Versions Description (SOAR Software Version Description) IAW CDRL A035.

The Contractor shall develop an Operation and Maintenance Instruction for Research and Development (R&D) Equipment Operations and Maintenance (SOAR Operations and Maintenance Manual) for use at the SOAR range that provides range personnel the necessary operating, diagnostic, and repair procedures for using and maintaining the SOAR Refurbishment equipment. The Contractor shall deliver the manual IAW CDRL A036. The Contractor shall deliver commercial off-the-shelf (COTS) Manual and Associated Supplemental Data (SOAR COTS Manuals) IAW CDRL A037.

The Contractor shall formally request any changes to the design that:

- a. impact meeting the requirements in the Performance Specification
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification

If required the Contractor shall deliver an Engineering Change Proposal IAW CDRL A007.

#### 4.8 TASK G: FABRICATION, ASSEMBLY AND TESTING OF THE SENSOR NODES AND REMAINING SYSTEM – SOAR REFURBISHMENT (OPTION #6)

The locations for the sensors in the SOAR system are provided as GFI in Appendix A. The Contractor shall fabricate the SOAR system in accordance with the drawings developed in Task A. The Contractor shall integrate and test the system in accordance with the standards listed in Paragraph 3.1 of this SOW and the requirements of the Performance Specification. The Contractor shall perform individual component and system level tests described in Paragraph 4 of the Performance Specification. The Contractor shall deliver the Test Procedure (Shallow Water Acoustic Test Plan) IAW CDRL A038, and the Test/Inspection Report (Shallow Water Acoustic Test Report) IAW CDRL A039. The Contractor shall deliver the Test Procedure (SOAR Factory Acceptance Test Plan) IAW CDRL A040 and the Test/Inspection Report (SOAR Factory Acceptance Test Report) IAW CDRL A041.

Failure of the product in any stage of assembly or testing shall automatically classify the unit as non-compliant. The contractor shall determine the causes of the defect; take necessary action to correct the defect; and submit to the Government a Failure Analysis and Corrective Action Report (FACAR). The repaired production unit shall be subjected to retesting as defined in Paragraph 4.0 of the Performance Specification. If required the Contractor shall deliver a FACAR IAW CDRL A031.

The Contractor shall formally request any changes that:

- a. impact meeting the requirements in the Performance Specification

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b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.9 TASK H: FABRICATION, ASSEMBLY AND TESTING OF CABLE TERMINATION INTEGRATED WITH THE CABLE – BSURE REFURBISHMENT (OPTION #7)

The Contractor shall fabricate the BSURE system in accordance with the drawings developed in Task B. The Contractor shall integrate and test the system in accordance with the standards listed in Paragraph 3.1 of this SOW. The Contractor shall perform individual component and system level tests. The Contractor shall deliver the Test Procedure (Deep Water Cable Termination Test Plan) IAW CDRL A042, and the Test/Inspection Report (Deep Water Cable Termination Test Report) IAW CDRL A043. The test plan shall include valuation criteria to demonstrate that the testing meets the requirements. The test report shall include both prime and subcontractor test results.

Failure of the product in any stage of assembly or testing shall automatically classify the unit as non-compliant. The contractor shall determine the causes of the defect; take necessary action to correct the defect; and submit to the Government a Failure Analysis and Corrective Action Report (FACAR). The repaired production unit shall be subjected to retesting as defined in Paragraph 4.0 of the Performance Specification. If required the Contractor shall deliver a FACAR IAW CDRL A031.

The Contractor shall formally request any changes that:

a. impact meeting the requirements in the Performance Specification

b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.10 TASK I: FABRICATION, ASSEMBLY AND TESTING OF THE SES – BSURE REFURBISHMENT (OPTION #8)

The Contractor shall fabricate the BSURE system in accordance with the drawings developed in Task C. The Contractor shall integrate and test the system in accordance with the standards listed in Paragraph 2 of this SOW. The Contractor shall perform individual component and system level tests. The Contractor shall deliver the Test Procedure (BSURE SES Test Plan) IAW CDRL A044, and the Test/Inspection Report (BSURE SES Test Report) IAW CDRL A045.

The test plan shall address how all the requirements listed in the Verification Matrix in Paragraph 4 of the Performance Specification have been met.

Failure of the product in any stage of assembly or testing shall automatically classify the unit as non-compliant. The contractor shall determine the causes of the defect; take necessary action to correct the defect; and submit to the Government a Failure Analysis and Corrective Action Report (FACAR). The repaired production unit shall be subjected to retesting as defined in Paragraph 4.0 of the Performance Specification. If required the Contractor shall deliver a FACAR IAW CDRL A031.

The Contractor shall deliver the command and control Graphical User Interface software code used in the Shore Support System. The Contractor shall deliver the Computer Software Product End Items (BSURE SES Software Source Code) IAW CDRL A046 and a Software Version Description (BSURE Software Version Description) IAW CDRL A047.

The Contractor shall deliver an Operation and Maintenance Instruction for Research and Development (R&D) Equipment (BSURE Operations and Maintenance Manual) for use at the BSURE range IAW CDRL A048. The Contractor shall deliver the Commercial off-the-shelf (COTS) Manual and Associated Supplemental Data (BSURE COTS Manuals) IAW CDRL A049.

The Contractor shall formally request any changes to the design that occur after the PDR, described in Paragraph 4.21.2 of this SOW, that:

a. impact meeting the requirements in the Performance Specification

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b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.11 TASK J: FABRICATION, ASSEMBLY AND TESTING OF THE SENSOR NODES AND REMAINING SYSTEM – BSURE REFURBISHMENT (OPTION #9)

The locations for the sensors in the BSURE system will be provided as GFI in Appendix B. The Contractor shall fabricate the BSURE system in accordance with the drawings developed in Task B. The Contractor shall integrate and test the system in accordance with the standards listed in Paragraph 3.1 of this SOW and the requirements of the Performance Specification. The Contractor shall perform individual component and system level tests described in Paragraph 4 of the Performance Specification. The Contractor shall deliver the Test Procedure (BSURE Acoustic Test Plan) IAW CDRL A050, and the Test/Inspection Report (BSURE Acoustic Test Report) IAW CDRL A051. The Contractor shall deliver the Test Procedure (BSURE Factory Acceptance Test Plan) IAW CDRL A052 and the Test Report (BSURE Refurbishment Factory Acceptance Test Report) IAW CDRL A053.

Failure of the product in any stage of assembly or testing shall automatically classify the unit as non-compliant. The contractor shall determine the causes of the defect; take necessary action to correct the defect; and submit to the Government a Failure Analysis and Corrective Action Report (FACAR). The repaired production unit shall be subjected to retesting as defined in Paragraph 4.0 of the Performance Specification. If required the Contractor shall deliver a FACAR IAW CDRL A031.

The Contractor shall formally request any changes to the design that occur after the PDR, described in Paragraph 4.21.2 of this SOW, that:

a. impact meeting the requirements in the Performance Specification

b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.12 TASK K: CABLE FOR THE SOAR REFURBISHMENT (BASIC BUY)

The Contractor shall purchase the cables following selection approval by the Government at the Shallow Water OSS PDR, described in Paragraph 4.20.2 of this SOW. The Contractor shall deliver a Test Procedure (Shallow Water Cable Test Plan) IAW CDRL A054 and a Test/Inspection Report (Shallow Water Cable Test Report) IAW CDRL A055. The test plan shall include testing both at any location, i.e. cable factory, assembly site of arrays, etc.

#### 4.13 TASK L: CABLE FOR THE BSURE REFURBISHMENT (OPTION #2)

The Contractor shall purchase the cables following selection approval by the Government at the Deep Water PDR, described in Paragraph 4.21.2 of this SOW. The Contractor shall deliver a Test Procedure (Deep Water Cable Test Plan) IAW CDRL A056 and a Test/Inspection Report (Deep Water Cable Test Report) IAW CDRL A057. The test plan shall include testing both at any location, i.e. cable factory, assembly site of arrays, etc.

#### 4.14 TASK M: SEA SHORE INTERFACE (SSI) - SOAR REFURBISHMENT (OPTION #10)

The Contractor shall perform the Sea Shore Interface IAW the Sea Shore Interface Installation Plan approved by the Government. The SSI installation shall comprise the horizontal boring and other shore preparations (including assisting the Government with on-site set-up and demobilization) in preparation for the cable deployment. This includes any trenching and installation of terrestrial cable between the bore and the shore electronics facility.

Unless provided as GFP, it is the contractor's responsibility to provide the means to successfully install the cable.

AS GFI, the government will provide all required environmental compliance documents and permits after contract award.

The contractor shall deliver an Installation Test Report (SOAR Sea Shore Interface Installation Report) summarizing the results IAW CDRL A058. The installation report shall contain the following information:

1. Copies of daily reports (logs).

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2. Installation photographs on a CD.
3. Salient installation coordinates in UTM (meters) and WGS84 (DD MM.).
4. Summary of results.

The Contractor shall formally request any changes that:

- a. impact meeting the requirements in the Performance Specification
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.15 TASK N: SEA SHORE INTERFACE - BSURE REFURBISHMENT (OPTION #11)

The Contractor shall perform the Sea Shore Interface IAW the Sea Shore Installation Plan approved by the Government. The SSI installation shall comprise the horizontal boring and other shore preparations in preparation for the cable deployment. This includes any trenching and installation of terrestrial cable between the bore and the shore electronics facility.

Unless provided as GFP, it is the contractor's responsibility to provide the means to successfully install the cable.

As GFI, the government will provide all required environmental compliance documents and permits after contract award.

The contractor shall deliver an Installation Test Report (BSURE Sea Shore Interface Installation Report) summarizing the results IAW CDRL A059. The installation report shall contain the following information:

1. Copies of daily reports (logs).
2. Installation photographs on a CD.
3. Salient installation coordinates in UTM (meters) and WGS84 (DD MM.).
4. Summary of results.

The Contractor shall formally request any changes that:

- a. impact meeting the requirements in the Performance Specification
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A008.

#### 4.16 TASK O: INSTALLATION - SOAR REFURBISHMENT (OPTION #12)

The Contractor shall perform the installation of both the OSS and SES IAW the Installation Plan approved by the Government. The Contractor shall deliver an Installation Test Report (SOAR Installation Report) IAW CDRL A060. The report shall contain:

- a. A narrative summary of events during the installation of all major components, the actual ship positions at time of hydrophone placement;
- b. A table of hydrophone positions in WGS 84 and UTM coordinates;
- c. A electronic copy of recorded ship positions during installation;
- d. Copies of any still and/or video pictures taken during the sea/shore cable installation, stabilization, and post installation survey;
- e. All recorded data.

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Unless provided as GFP, it is the contractor's responsibility to provide the means to successfully install the cable.

As GFI, the government will provide all required environmental compliance documents and permits after contract award.

The Contractor shall formally request any changes that:

- a. impact meeting the requirements in the Performance Specification
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

The contractor shall be responsible for removing equipment from the installation ship as well as restoring the ship to its original condition. The mobilization site will also be cleaned to its original condition.

#### 4.17 TASK P: INSTALLATION - BSURE REFURBISHMENT (OPTION #13)

The Contractor shall perform the installation of both the OSS and SES IAW the Installation Plan approved by the Government. The Contractor shall deliver an Installation Test Report (BSURE Installation Report) IAW CDRL A061. The report shall contain:

- a. A narrative summary of events during the installation of all major components, the actual ship positions at time of hydrophone placement;
- b. A table of hydrophone positions in WGS84 and UTM coordinates;
- c. A electronic copy of recorded ship positions during installation;
- d. Copies of any still and/or video pictures taken during the sea/shore cable installation, stabilization, and post installation survey;
- e. All recorded data.

Unless provided as GFP, it is the contractor's responsibility to provide the means to successfully install the cable.

As GFI, the government will provide all required environmental compliance documents and permits.

The contractor shall be responsible for removing equipment from the installation ship as well as restoring the ship to its original condition. The mobilization site will also be cleaned to its original condition.

The Contractor shall formally request any changes that:

- a. impact meeting the requirements in the Performance Specification
- b. add additional features that are not specifically detailed in the SOW or the Performance Specification

The Contractor shall deliver, as required, an Engineering Change Proposal IAW CDRL A007.

#### 4.18 TASK Q: TRAINING - SOAR REBURBISHMENT (OPTION #12)

The Contractor shall develop a training course and conduct training. The training shall be one time for operators and maintenance personnel. The Contractor shall deliver a Training Program Development and Management Plan (SOAR Training Plan) IAW CDRL A062. The course shall include theory of operation, equipment operation, system/component troubleshooting and maintenance. The course shall be designed to include both classroom and hands-on sessions. The course shall be taught on-site for 15 people. The Contractor shall provide a Training Plan which shall describe the approach to training, the resource requirements, management structure and functions, a training course outline and other tasks related to training. The Contractor shall provide Training Materials (SOAR Training Materials) at the time of Training IAW CDRL A063.

#### 4.19 TASK R: TRAINING - BSURE REBURBISHMENT (OPTION #13)

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The Contractor shall develop a training course and conduct training. The training shall be one time for operators and maintenance personnel. The Contractor shall deliver a Training Program Development and Management Plan (BSURE Training Plan) IAW CDRL A064. The course shall include theory of operation, equipment operation, system/component troubleshooting and maintenance. The course shall include software training for Government Software Engineers. The course shall be designed to include both classroom and hands-on sessions. The course shall be taught on-site for 15-people. The Contractor shall provide a Training Plan which shall describe the approach to training, the resource requirements, management structure and functions, a training course outline and other tasks related to training. The Contractor shall provide Training Materials (BSURE Training Materials) at the time of Training IAW CDRL A065.

#### 4.20 TASK S: PROGRAM REVIEWS – SHALLOW WATER/SOAR REFURBISHMENT (BASIC BUY)

The Contractor shall conduct the reviews at the Contractor facility; if the Contractor wants to change the site, it must be approved in advance by the Government. Approximately 15 people will attend the reviews.

##### 4.20.1 Systems Requirements Review/System Functional Review (SRR/SFR) for the Shallow Water Production engineering

The Contractor shall conduct a combined SRR and SFR. The purpose of the review is to validate the functional baseline of the proposed system, and validate baseline program cost and schedule. At a minimum, the review shall include:

- a) Program Overview
- b) Program Schedule,
- c) Management Metrics,
- d) Earned Value Management (EVM)
- e) Work Breakdown Structure (WBS)
- f) Program Staffing,
- g) Organization structure with key Contractor interfaces
- h) Integrated Logistics Support
- i) Processes,
- j) Configuration Management Processes,
- k) Risk Management Process,
- l) Quality Assurance Plan
- m) Systems Requirements and System Functional Design,
- n) Program Budget
- o) Program Risk assessment,
- p) Risk Items and Mitigation Options,
- q) Costs and schedule impacts of risk/mitigation

The Contractor shall deliver a Report/Record of Meeting/Minutes (Shallow Water – SOAR Meeting Minutes) following the review IAW CDRL A066.

##### 4.20.2 Preliminary Design Review for the Shallow Water Design

The Contractor shall conduct the Preliminary Design Review (PDR). The Contractor shall provide the Program

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Review Material IAW CDRL A067. This review confirms that the preliminary design meets the performance requirements. The result will be an approval to begin detailed design. At a minimum, the review shall include:

- a) Program Overview
- b) Program Schedule.
- c) Status versus critical path.
- d) Management Metrics.
- e) EVM,
- f) WBS
- g) Program Staffing.
- h) Organization structure with key Contractor interfaces
- i) Process Review.
- j) System Engineering Processes
- k) Configuration Management Plan,
- l) Risk Management,
- m) Quality Assurance Plan,
- n) System Preliminary Design.
- o) Subsystem Requirements traced to system requirements.
- p) Subsystem and system preliminary design,
- q) Interface Requirements,
- r) Reliability,
- s) Maintainability,
- t) COTS use,
- u) Producibility,
- v) Supportability,
- w) Obsolescence issues
- x) Power supply design; which includes a discussion of the use of linear vs. switching supplies, the advantages of a custom design vs. a COTS power supply, the use of voltage vs. a current power supply
- y) Cable selection; which includes the cost of the cable, the advantages between a custom design vs. a standard design, lead time for the purchase
- z) Program Risk Assessment.
  - aa) Risk Items and Mitigation Options,
  - bb) Costs and schedule impacts of risk/mitigation
  - cc) Program Budget



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dd) Integrated Logistics Support

Subsequent to this review, the Contractor shall submit any proposed changes to the system baseline using an Engineering Change Proposal.

The Contractor shall deliver Report/Record of Meeting/Minutes (Shallow Water – SOAR Meeting Minutes) following the review IAW CDRL A066.

4.20.3 Critical Design Review for the Shallow Water Design

The Contractor shall conduct the CDR. The Contractor shall provide the Program Review Material IAW CDRL A067. The review validates the completeness of the design and its suitability to start initial manufacturing. At a minimum, the review shall include:

- a) Program Overview
- b) Program Schedule.
- c) Status versus critical path.
- d) Management Metrics.
- e) EVM,
- f) WBS
- g) Program Staffing.
- h) Organization structure with key Contractor interfaces
- i) Process Review.
- j) System Engineering Processes
- k) Configuration Management Plan,
- l) Risk Management, Risk Items and Mitigation Options,
- m) Costs and schedule impacts of risk/mitigation
- n) Quality Assurance Plan,
- o) System Final Detail Design
- p) Subsystem Requirements traced to system requirements.
- q) I design traced to subsystem requirements
- r) Interface Requirements,
- s) Reliability,
- t) Maintainability,
- u) COTS use,
- v) Producibility,
- w) Supportability,
- x) Obsolescence issues
- y) Technical Data

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z) System Verification

aa) Requirements Verification Matrix

bb) Subsystem Test Plans

cc) Program Risk Assessment

dd) Risk Items and Mitigation Options,

ee) Costs and schedule impacts of risk/mitigation

ff) Program Budget

gg) Integrated Logistics Support

The Contractor shall deliver Report/Record of Meeting/Minutes (Shallow Water – SOAR Meeting Minutes) following the review IAW CDRL A066.

#### 4.20.4 Installation Readiness Review for the SOAR Refurbishment

The Contractor shall conduct an Installation Readiness Review (IRR). The Contractor shall provide the Program Review Material IAW CDRL A067. The review validates the completeness of installation planning and results in the approval to begin the installation. At a minimum, the review shall include:

a) Program overview.

b) Schedule.

c) Critical path.

d) Management Metrics.

e) EVM,

f) WBS

g) Program Staffing.

h) Organization structure with key Contractor interfaces

i) Process Review.

j) System Engineering Processes

k) Risk Management, Risk Items and Mitigation Options,

l) Costs and schedule impacts of risk/mitigation

m) Safety Plan,

n) Risk Assessment and mitigation

o) Installation Staffing. Identify Government and Contractor interfaces, if applicable.

p) Installation Plan

q) Limitations

r) Availability of installation attrition items

s) Program Budget

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The Contractor shall deliver Report/Record of Meeting/Minutes (Shallow Water – SOAR Meeting Minutes) following the review IAW CDRL A068.

#### 4.20.5 Progress Reviews for the SOAR Refurbishment

During the period of the task order, the Contractor shall conduct progress reviews. At a minimum, the Contractor shall present:

- a) Program overview.
- b) Schedule.
- c) Critical path.
- d) Management Metrics.
- e) EVM,
- f) WBS
- g) Process Review.
- h) System Engineering Processes
- i) Risk Management, Risk Items and Mitigation Options,
- j) Costs and schedule impacts of risk/mitigation
- k) Safety Plan,
- l) Program Staffing.
- m) Organization structure with key Contractor interfaces
- n) Risk Assessment and mitigation
- o) Risk Items and Mitigation Options,
- p) Critical Item List Status
- q) Program Budget

During the Progress Reviews, the Contractor shall review the readiness to begin testing at any level. The following shall be presented:

- r) Test Program Overview with schedule
- s) Test Program Staffing. Identify Government and Contractor interfaces, if applicable.
- t) Test Plan
- u) Purpose
- v) Configuration of system under test
- w) Scope of tests
- x) Method of test verification defined (e.g. demonstration, inspection, testing)
- y) Required resources
- z) Management metrics relevant to planned test phase

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aa) Test Constraints

bb) Interface Requirements

cc) Cost

dd) Schedule

ee) Limitations

ff) Identification of any preliminary or informal test results

The Contractor shall deliver Report/Record of Meeting/Minutes (Shallow Water – SOAR Meeting Minutes) following the review IAW CDRL A066.

The contractor shall perform progress reviews on a quarterly basis. If the quarterly scheduled review coincides with the PDR, CDR, or IRR, the reviews shall be combined.

#### 4.21 TASK T: PROGRAM REVIEWS - DEEP WATER/BSURE REFURBISHMENT (OPTION #1)

The Contractor shall conduct the reviews at the Contractor facility; if the Contractor wants to change the site, it must be approved in advance by the Government. Approximately 15 people will attend the reviews.

##### 4.21.1 Systems Requirements Review/System Functional Review (SRR/SFR) for the Deep Water Design

The Contractor shall conduct a combined Systems Requirements Review and System Functional Review. The purpose of the review is to validate the functional baseline of the proposed system, and validate baseline program cost and schedule. At a minimum, the review shall include:

- a) Program Overview
- b) Program Schedule,
- c) Management Metrics,
- d) EVM
- e) WBS
- f) Program Staffing,
- g) Organization structure with key Contractor interfaces
- h) Processes,
- i) Configuration Management Processes,
- j) Risk Management Process,
- k) Quality Assurance Plan
- l) Systems Requirements and System Functional Design,
- m) Program Budget
- n) Program Risk assessment,
- o) Risk Items and Mitigation Options,
- p) Costs and schedule impacts of risk/mitigation

The Contractor shall deliver a Report, Record of Meeting Minutes (Deep Water – BSURE Meeting Minutes) following the review IAW CDRL A068.

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#### 4.21.2 Preliminary Design Review for the Deep Water Design

The Contractor shall conduct the Preliminary Design Review (PDR). The Contractor shall provide the Program Material IAW CDRL A069. This review confirms that the preliminary design meets the performance requirements. The result will be an approval to begin detailed design. At a minimum, the review shall include:

- a) Program Overview
- b) Program Schedule.
- c) Status versus critical path.
- d) Management Metrics.
- e) EVM,
- f) WBS
- g) Program Staffing.
- h) Organization structure with key Contractor interfaces
- i) Process Review.
- j) System Engineering Processes
- k) Configuration Management Plan,
- l) Risk Management,
- m) Quality Assurance Plan,
- n) System Preliminary Design.
- o) Subsystem Requirements traced to system requirements.
- p) Subsystem and system preliminary design,
- q) Interface Requirements,
- r) Reliability,
- s) Maintainability,
- t) COTS use,
- u) Producibility,
- v) Supportability,
- x) Obsolescence issues
- y) Cable selection; which includes the cost of the cable, the advantages between a custom design versus a standard design, lead time for the purchase
- z) The Contractor shall also recommend installation attrition items. Installation attrition shall be defined as items that will provide insurance in the event of component failure during installation, such as a splice bottle to repair a cable break or an in-water system item for troubleshooting.
  - aa) Program Risk Assessment.
  - bb) Risk Items and Mitigation Options,

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cc) Costs and schedule impacts of risk/mitigation

Subsequent to this review, the Contractor shall submit any proposed changes to the system baseline using an Engineering Change Proposal.

The Contractor shall deliver The Contractor shall deliver a Report, Record of Meeting Minutes (Deep Water – BSURE Meeting Minutes) following the review IAW CDRL A068.

#### 4.21.3 Critical Design Review for the Deep Water Design

The Contractor shall conduct the CDR. The Contractor shall provide the Program Material IAW CDRL A069. The review validates the completeness of the design and its suitability to start initial manufacturing. At a minimum, the review shall include:

- a) Program Overview
- b) Program Budget
- c) Program Schedule.
- d) Status versus critical path.
- e) Management Metrics.
- f) EVM,
- g) WBS
- h) Program Staffing.
- i) Organization structure with key Contractor interfaces
- j) Process Review.
- k) System Engineering Processes
- l) Configuration Management Plan,
- m) Risk Management, Risk Items and Mitigation Options,
- n) Costs and schedule impacts of risk/mitigation
- o) Quality Assurance Plan,
- p) System Final Detail Design
- q) Subsystem Requirements traced to system requirements.
- r) l design traced to subsystem requirements
- s) Interface Requirements,
- t) Reliability,
- u) Maintainability,
- v) COTS use,
- w) Producibility,
- x) Supportability,
- y) Obsolescence issues

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z) Technical Data

aa) The Contractor shall also recommend installation attrition items. Installation attrition shall be defined as items that will provide insurance in the event of component failure during installation, such as a splice bottle to repair a cable break or an in-water system item for troubleshooting.

bb) System Verification

cc) Requirements Verification Matrix

dd) Subsystem Test Plans

ee) Program Risk Assessment

ff) Risk Items and Mitigation Options,

gg) Costs and schedule impacts of risk/mitigation

The Contractor shall deliver The Contractor shall deliver a Report, Record of Meeting Minutes (Deep Water – BSURE Meeting Minutes) following the review IAW CDRL A070.

4.21.4 Installation Readiness Review for the BSURE Refurbishment

The Contractor shall conduct an Installation Readiness Review (IRR). ). The Contractor shall provide the Program Material IAW CDRL A069. The review validates the completeness of installation planning and results in the approval to begin the installation. At a minimum, the review shall include:

a) Program overview.

b) Program Budget

c) Schedule.

d) Critical path.

e) Management Metrics.

f) EVM,

g) WBS

h) Program Staffing.

i) Organization structure with key Contractor interfaces

j) Process Review.

k) System Engineering Processes

l) Risk Management, Risk Items and Mitigation Options,

m) Costs and schedule impacts of risk/mitigation

n) Safety Plan,

o) Risk Assessment and mitigation

p) Installation Staffing. Identify Government and Contractor interfaces, if applicable.

q) Installation Plan

r) Limitations

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s) Installation Attrition Items

The Contractor shall deliver The Contractor shall deliver a Report, Record of Meeting Minutes (Deep Water – BSURE Meeting Minutes) following the review IAW CDRL A068.

4.21.5 Progress Reviews for BSURE Refurbishment

During the period of the task order, the Contractor shall conduct progress reviews. At a minimum, the Contractor shall present:

- a) Program overview.
- b) Program Budget
- c) Schedule.
- d) Critical path.
- e) Management Metrics.
- f) EVM,
- g) WBS
- h) Process Review.
- i) System Engineering Processes
- j) Risk Management, Risk Items and Mitigation Options,
- k) Costs and schedule impacts of risk/mitigation
- l) Safety Plan,
- m) Program Staffing.
- n) Organization structure with key Contractor interfaces
- o) Risk Assessment and mitigation
- p) Risk Items and Mitigation Options,
- q) Critical Item List Status

During the Progress Reviews, the Contractor shall review the readiness to begin testing at any level. The following shall be presented:

- r) Test Program Overview with schedule
- s) Test Program Staffing. Identify Government and Contractor interfaces, if applicable.
- t) Test Plan
- u) Purpose
- v) Configuration of system under test
- w) Scope of tests
- x) Method of test verification defined (e.g. demonstration, inspection, testing)
- y) Required resources



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z) Management metrics relevant to planned test phase

aa) Test Constraints

bb) Interface Requirements

cc) Cost

dd) Schedule

ee) Limitations

ff) Identification of any preliminary or informal test results

The Contractor shall deliver The Contractor shall deliver a Report, Record of Meeting Minutes (Deep Water – BSURE Meeting Minutes) following the review IAW CDRL A068.

The contractor shall perform progress reviews on a quarterly basis. If the quarterly scheduled review coincides with the PDR, CDR, or IRR, the reviews shall be combined. If any review coincides with a Shallow Water OSS SRR, PDR, or CDR, or a SOAR Refurbishment review, the reviews shall be combined.

#### 4.22 TASK U: SYSTEM MAINTENANCE - SOAR REFURBISHMENT (OPTION #12)

The Contractor shall provide the following technical support services for one year beginning at the conclusion of training of the OSS and SES:

- a. Telephone and email assistance in resolving integration problems for the Shore Electronics System and the Ocean Sensor System;
- b. Site visits when telephone or email assistance does not resolve the problems;

#### 4.23 TASK V: SYSTEM MAINTENANCE - BSURE REFURBISHMENT (OPTION #13)

The Contractor shall provide the following technical support services for one year beginning at the conclusion of training of the OSS and SES:

- Telephone and email assistance in resolving integration problems and diagnosing failures for the Shore Electronics System and the Ocean Sensor System;
- Site visits when telephone or email assistance does not resolve the problems;

#### 4.24 TASK W: INTERFACE FOR SHORE ELECTRONIC SUBSYSTEM (OPTION #1)

The contractor shall define the electro-optical interface between the SES and OSS. The contractor shall deliver an Interface Control Document (ICD) (SES Interface Control Document) IAW CDRL A070. The Interface Document shall contain figures, drawings, flow diagrams, etc. sufficient to allow independent control of the interface.

#### 4.25 TASK X: POST INSTALLATION AT-SEA TESTS -SOAR REFURBISHMENT (OPTION #14)

The Contractor shall provide the government with additional 7-days of at-sea operations. The contractor shall provide the vessel with full crew and complete equipment utilized in Task W for these seven (7) days. The government will provide direction (both GFI for planning and government representative during the at-sea operations) to the contractor during these seven (7) days. The At-sea tests may include but not limited to the government acoustic survey, range accuracy tests, deployment of equipment necessary to perform government testing and training, inspections of equipment installed in Task O, any additional deployment to modify equipment installed under task O, and etc. The scope of these At-sea operations will occur on the SOAR range with resources equal those used for the Task O.

Unless provided as GFP, it is the contractor's responsibility to provide the means to successfully install the cable.

As GFI, the government will provide all required environmental compliance documents and permits.

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#### 4.26 TASK Y: POST INSTALLATION AT-SEA TESTS - BSURE REFURBISHMENT (OPTION #15)

The Contractor shall provide the government with additional seven (7) days of at-sea operations. The contractor shall provide the vessel with full crew and complete equipment utilized in Task W for these seven (7) days. The government will provide direction (both GFI for planning and government representative during the at-sea operations) to the contractor during these seven (7) days. The at-sea tests may include but not limited to the government acoustic survey, range accuracy tests, deployment of equipment necessary to perform government testing and training, inspections of equipment installed in Task P, any additional deployment to modify equipment installed under Task P, etc. The scope of these at-sea operations will occur on the BSURE range with resources equal those used for the Task P.

Unless provided as GFP, it is the contractor's responsibility to provide the means to successfully install the cable.

As GFI, the government will provide all required environmental compliance documents and permits.

#### 5.0 PROGRESS REPORTS

The Contractor shall submit a monthly Status Report IAW CDRL A071 that provides overall program status for both the SOAR and BSURE Refurbishments. The Contractor shall use Earned Value Management to track the financial progress of the program and shall submit monthly Cost/Schedule Status Report IAW CDRL A072. The Contractor shall deliver an Integrated Master Schedule IAW CDRL A073. As part of maintaining the schedule the Contractor shall use the WBS dictionary IAW with the work breakdown structure provided. The Contractor shall submit Program/Project Risk Management (Risk Management Plan) IAW CDRL A074 using the NAVAIRINST 5000.21 standard.

In addition, the contractor shall provide Funds and Man-hour Expenditure Report and a Contractor's Progress, Status and Management Report in accordance with eCRAFT.

#### 6.0 GOVERNMENT FURNISHED INFORMATION (GFI)

The following information will be provided by the Government within 10 days after task order award (unless otherwise noted below) and will be returned to the Government at the completion of the delivery order:

1. Environmental compliance documentation and permits for the installation of SOAR provided will provide upon completion of the basic task order award task. Documentation will include a drilling mitigation plan that the contractor shall adhere to.
2. Environmental compliance documentation and permits for the installation of BSURE will be provided upon completion of the basic task order award task. Documentation will include a drilling mitigation plan that the contractor shall adhere to.
3. RESERVED
4. RESERVED
5. SOAR Bathymetric data for the installation sites. The government does not have high resolution data for 100% coverage. It is not anticipated that the contractor needs to collect their own data. The government will provide hi-resolution data within 180-days after task order award. The government will provide low-resolution data within 90-days after task order award.
6. BSURE Bathymetric data for the installation sites. The government does not have high resolution data for 100% coverage. It is not anticipated that the contractor needs to collect their own data. The government will provide high resolution data within 180-days after task order award. The government will provide low-resolution data within 90-days after task order award.
7. Shore Electronics System (SES) Interface Specification will be provided at the time of task order award.
8. Acoustic Command Link (ACL) message format will be provided upon task order award.
9. WQC Low Band Alarm signal format will be provided upon task order award.

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10. Commercial Drawings and Associated Lists AFWTF UTR Engineering Design Drawings (final), Contract #N66604-95-D-E373/058 with Syscon Corporation, CDRL A003 will be provided upon task order award.

11. Atlantic Fleet Weapons Training Facility (AFWTF North), Test Inspection Report, will be provided upon task order award.

12. Post Installation At-sea Test Plan for SOAR Refurbishment will be provided 180-days after completion of basic buy tasks.

13. Post Installation At-sea Test Plan for BSURE Refurbishment will be provided 180-days after completion of option #1 tasks.

#### 7.0 Quality Surveillance & Performance Standards

The government will conduct quality surveillance via various methods including formal and informal meetings, review of technical reports, review of monthly progress reports, and review of deliverables.

Contractor performance will be evaluated in the areas of technical quality, responsiveness, timeliness and cost. Technical quality will be evaluated against the performance standards defined in the performance specification. Responsiveness will be evaluated based upon the government's experience interacting with the contractor during performance. Timeliness will be evaluated based on the contractor's ability to meet CDRL schedules with minimal variance. Cost will be evaluated based upon the contractor's ability to manage to the negotiated costs.

#### C16S COST AND PERFORMANCE REPORTING (MAY 2001)

(a) The Contractor agrees to provide the Contractor's Funds and Man-hour Expenditure Report in the Electronic Cost Reporting and Financial Tracking (eCRAFT) System within sixty (60) days after the date of task order award. Failure to comply with this requirement may result in task order termination.

(b) The Contractor's Funds and Man-hour Expenditure Report reports contractor expenditures for labor, materials, travel and other contract charges.

(1) Format. Data shall be reported in a format acceptable to the Electronic Cost Reporting and Financial Tracking System (eCraft). Paper submittal of the data is permitted for the first 60 days of performance. Address paper submittals to the Task Order Manager identified in the task order.

(2) Scope and Content.

(i) The Contractor shall identify costs to the individual SLIN if applicable. If pricing is not established at the SLIN level, report to the CLIN.

(ii) The Contractor shall report individual cost elements comprising the total cost of performance for the current cost reporting period.

(3) Submission and Approval.

(i) Submit report at least once per month beginning 30 days after task order award. Approval will be indicated by e-mail notification from eCraft.

(ii) Distribution Statement. Distribution Statement B: Distribution to U.S. Government agencies only; Proprietary Information; (date data generated). Other requests for this document shall be referred to NUWCDIVNPT Code 5911.

(c) The Contractor's Performance Report indicates the progress of work and the status of the program and of all assigned tasks. It informs the Government of existing or potential problem areas. References to costs are meant to be at a summary level. Preparation instructions follow.

(1) Format. Pages shall be sequentially numbered. All attachments shall be identified and referenced in the text of the report. Report shall be prepared in the contractor's format and shall be legible and suitable for reproduction. Electronic submission is encouraged.

(2) Content.

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(i) Provide a front cover sheet that indicates the contractor's name and address, the contract number and task order number, the system or program nomenclature, the report date, the reporting period, the report title and a serial number for the report, the security classification, the name and address of the person who prepared the report, and the name of the issuing Government activity (Naval Undersea Warfare Center Division, Newport).

(ii) Report task order schedule status. Describe the progress made against milestones during the reporting period.

(iii) Report any significant changes to the contractor's organization or methods of operation, to the project management network, or to the milestone chart.

(iv) Report problem areas affecting technical, scheduling, or cost elements. Provide background and recommendations for solutions beyond the scope of the task order. Report results (positive or negative) obtained related to previously identified problem areas, with conclusions and recommendations.

(v) Report all trips and significant results.

(vi) Report all significant communications and any commitments made thereby. Include all non-contractual communications, such as emails, telephone conversations, etc.

(vii) Report Engineering Change Proposal (ECP) status. Identify all ECPs by status, i.e., proposed, approved and implemented.

(viii) Report plans for activities during the following reporting period.

(ix) Include appendices for any necessary tables, references, photographs, illustrations, charts, etc.

### (3) Submission and Approval.

(i) Submission. Submit report monthly beginning 30 days after task order award.

(ii) Distribution. Provide one original copy to the Task Order Manager. Additional copies shall be provided to:

(iii) Distribution Statement. Distribution Statement B: Distribution to U.S. Government agencies only; Proprietary Information; (date data generated). Other requests for this document shall be referred to NUWCDIVNPT Code 70T.

(iv) Approval. DD Form 250 is not required. Approval will be indicated via letter of transmittal.

(d) The contractor shall not provide other funds, man-hour, or status reporting without the prior written approval of the Task Order Ordering Officer.

### C54S UPDATING SPECIFICATIONS AND STANDARDS (NAVSEA) (AUG 1994)

If, during the performance of this task order, the contractor believes that it contains outdated or different versions of any specifications or standards, the contractor may request that it be updated to include the current version of the applicable specification or standard. Updating shall not affect the form, fit or function of any deliverable item or increase the cost/price of the item to the Government. The contractor should submit update requests to the Procuring Contracting Officer with copies to the Administrative Contracting Officer and cognizant program office representative for approval. The contractor shall perform the task order in accordance with the existing specifications and standards until notified of approval/disapproval by the Procuring Contracting Officer. Any approved alternate specifications or standards will be incorporated into the task order.

### C25S ACCESS TO GOVERNMENT SITE (OCT 2009)

(a) Contractor personnel shall comply with all current badging and security procedures required to gain access to any Government site. Access to Naval Undersea Warfare Center Division, Newport sites may only be gained by obtaining a badge (either permanent or temporary) from the security office. Compliance with SECNAV M-5510.30, Section 9-20, FACILITY ACCESS DETERMINATION (FAD) PROGRAM is specifically required. Badges shall be issued only after completion of SF85P available at: <http://www.opm.gov/forms/index.asp>

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Contractor personnel requiring a Common Access Card, access to controlled unclassified information (CUI) and/or user level access to DoN or DoD networks and information systems, system security and network defense systems, or to system resources providing visual access and/or ability to input, delete or otherwise manipulate sensitive information without control to identify and deny sensitive information, are required to have a favorably adjudicated NACLCL.

The Contractor shall ensure that Contractor personnel employed on any Government site become familiar with and obey Activity regulations. Contractor personnel shall not enter restricted areas unless required to do so and until cleared for such entry. The Contractor shall request permission to interrupt any activity roads or utility services in writing a minimum of 15 calendar days prior to the date of interruption. Contractor personnel shall wear personal protective equipment in designated areas. All contractor equipment shall be conspicuously marked for identification.

The contractor shall strictly adhere to Federal Occupational Safety and Health Agency (OSHA) Regulations, Environmental Protection Agency (EPA) Regulations, and all applicable state and local requirements.

(b) The contractor shall ensure that each contractor employee reads the pamphlet entitled, "Occupational Safety and Health Information for Contractors" prior to commencing performance at any NUWC DIVNPT site. This document is available under "Contractor Info" at :

<http://www.navsea.navy.mil/nuwc/newport/docs/Forms/AllItems.aspx>

(c) The contractor shall ensure that each contractor employee reads the document entitled, "NUWC Environmental Policy" prior to commencing performance at any NUWC DIVNPT site. This document is available at: [http://www.navsea.navy.mil/nuwc/newport/docs/EMS\\_EnvPolicy1.pdf](http://www.navsea.navy.mil/nuwc/newport/docs/EMS_EnvPolicy1.pdf)

(d) The contractor shall ensure that each contractor employee who is resident at any NUWC DIVNPT site completes ISO 14001 Awareness training within 30 days of commencing performance at that site. This training is available on the ISO 14001 webpage on the NUWC DIVNPT Intranet and is also available on the NUWC Division Newport Internet site. This document is available at:

[http://www.navsea.navy.mil/nuwc/newport/docs/External\\_ISO14001\\_2009\\_Training.pdf](http://www.navsea.navy.mil/nuwc/newport/docs/External_ISO14001_2009_Training.pdf)

(e) The contractor shall remove from the Government site any individual whose presence is deemed by the Commander, NUWC DIVNPT, to be contrary to the public interest or inconsistent with the best interests of national security.

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## SECTION D PACKAGING AND MARKING

### D11S PRESERVATION, PACKAGING, PACKING AND MARKING (JUN 2004)

Preservation, packaging, packing, and marking shall be in accordance with ASTM D 3951-98, "Standard Practice for Commercial Packaging". Additionally, the Contractor shall mark all packages with the following, as appropriate:

CONTRACT NUMBER: (from SF26 Block 2 or Task Order Block 1)

ORDER NUMBER: (from Task Order Block 2)

REQUISITION NUMBER: (from Task Order General Information Section)

### D21S DELIVERY, CONTROL, AND MARKING OF TECHNICAL DATA (SEP 2004)

- (a) Data furnished hereunder shall be adequately packaged to assure safe delivery at destination.
- (b) Transmittal of classified information by mail shall be in accordance with the National Industrial Security Program Operating Manual (NISPOM) for Safeguarding Classified Information (DOD 5220.22-M).
- (c) The Contractor shall distribute data items according to the distribution shown on the Contract Data Requirements List(s) (CDRL), provided as an Exhibit to this task order. The Contractor shall not distribute, release, or show data items or other technical data to third parties except with the written permission of the Task Order Ordering Officer.
- (d) Release of all technical data is subject to NUWCDIVNPT INSTRUCTION 5570.1H, OPNAVINST 5510.161 and DoD Directive 5230.25 (or appropriate superseding document).
- (e) All copies of CDRL items under this task order, regardless of distribution, shall be marked on the report cover with the following information:

Naval Undersea Warfare Center Division, Newport

Contract, Order, and ELIN Numbers

Report Title

Date of Report

Contractor Name (division which generated the report)

- (f) Some of the data deliverables under this task order may require additional markings. If this clause is cited in Block 16 of the DD Form 1423, provide the following markings prominently on the cover of the report:

Contractor's Business Address

Task Order Dollar Amount

Sponsor (name, activity, office code, and location). Orders, if applicable, will identify the sponsor.

### D24S PROHIBITED PACKING MATERIALS (JUN 2004)

The use of asbestos, excelsior, newspaper or shredded paper (all types including waxed paper, computer paper and similar hygroscopic or non-neutral material) is prohibited. In addition, loose fill polystyrene is prohibited for shipboard use.

### D25XS HAZARDOUS MATERIAL

Hazardous materials to be shipped by any mode or combination of modes of transportation shall be prepared (properly classed, described, packaged, marked, labeled, transport vehicle placarded, etc.) for shipment in accordance with MIL-STD-129 and all applicable government and carrier regulations in effect at time of shipment.

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#### TYPE OF SHIPMENT APPLICABLE REGULATIONS

1. Domestic A
2. Domestic Air Commercial A,B,C
3. Domestic Air Military A,F
4. Export Surface A,E,G
5. Export Air Commercial A,D,G
6. Export Air Military (MAC) F,G

#### LIST OF REGULATIONS

- A. Code of Federal Regulations Title 49 Transportation Parts 100-199
- B. Official Air Transport Restricted Articles Tariff No. 6-D C.A.B. 82
- C. Official Air Transport Restricted Articles Circular No. 6-D
- D. International Air Transport Association Restricted Articles Regulations
- E. International Maritime Dangerous Goods Code
- F. Air Force Regulation 71-4 Preparation of Hazardous Materials for Military Air Shipment
- G. Export shipments are also subject to the domestic regulations indicated to the port of embarkation.

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## **SECTION E INSPECTION AND ACCEPTANCE**

E14S INSPECTION AND ACCEPTANCE OF SERVICES (AUG 2005)

Inspection and acceptance shall be performed in accordance with the basic contract.

52.246-11 HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT (FEB 1999)

fill-in: ISO 9001: 2000 Certified.



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## SECTION F DELIVERABLES OR PERFORMANCE

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

1100	9/14/2006 - 12/31/2010
1101	9/14/2006 - 2/28/2011
1102	9/30/2006 - 6/30/2008
1103	9/26/2006 - 5/31/2008
1104	2/26/2008 - 5/31/2009
1105	8/29/2007 - 5/31/2009
1106	8/1/2007 - 5/31/2009
1107	2/26/2008 - 3/31/2011
1108	8/7/2008 - 2/28/2011
1109	3/18/2009 - 9/30/2010
1110	2/26/2008 - 12/31/2008
1111	11/26/2007 - 5/31/2010
1112	8/27/2008 - 3/31/2011
1113	2/5/2010 - 3/31/2011
3100	9/14/2006 - 12/31/2010
3101	9/14/2006 - 2/28/2011
3102	9/30/2006 - 3/31/2008
3103	9/26/2006 - 10/31/2007
3104	2/26/2008 - 5/31/2009
3105	8/29/2007 - 5/31/2009
3106	8/1/2007 - 12/31/2009
3107	2/28/2008 - 3/31/2011
3108	10/15/2007 - 2/28/2011
3109	3/18/2009 - 9/30/2010
3110	2/26/2008 - 4/30/2009
3111	11/26/2007 - 5/31/2010
3112	8/27/2008 - 3/31/2011
3113	2/5/2010 - 3/31/2011

### FIS PERIOD OF PERFORMANCE

Services to be furnished hereunder shall be performed and completed as follows:

Line Items	Performance Period
<b>1100/3100</b>	<b>9/14/06- 12/31/2010</b>
1101/3101	9/14/06- 2/28/11
<b>1102/3102</b>	<b>4/6/07- 4/30/09</b>
1103/3103	upon Gov't approval of SOAR PDR minutes * through 5/31/08
1104/3104	2/26/08-8/31/09

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1105/3105	upon Gov't approval of SOAR CDR minutes * through 12/31/09
<b>1106/3106</b>	<b>upon Gov't approval of SOAR CDR minutes * through 12/31/09</b>
<b>1107/3107</b>	<b>2/26/08- 3/31/11</b>
<b>1108/3108</b>	<b>upon Gov't approval of BSURE CDR minutes* through 2/28/11</b>
1109/3109	3/18/09- 9/30/10
1110/3110	2/26/08- 4/30/09
1111/3111	upon Gov't approval of BSURE CDR minutes* through 1/31/2011
1112/3112	90 days after Gov't approval of SOAR CDR minutes through <u>4/30/11</u>
1113/3113	2/5/2010 through <u>4/30/11</u>
1114/3114	upon Gov't approval of SOAR FAT report* through 3/30/10
1115/3115	upon Gov't approval of BSURE FAT report* through 2/28/2010

\* or option exercise date, whichever is later.

NOTE: The Government may provide funding for some options (i.e. exercise them) prior to applicable approval of PDR/CDR meeting minutes. In such cases, performance itself is not to start until the meeting minutes themselves are approved by the Government.

#### F22S DELIVERY OF DATA (JUN 2004)

The contractor shall deliver data items in accordance with the directions set forth on the DD Form 1423, Contract Data Requirements List (CDRL), which is an exhibit to this task order. Any change in the delivery of data must be made by a formal task order modification.

#### F30S PLACE OF PERFORMANCE (APR 2005)

Work will be performed at the Contractor's facility or other locations, as required by the statement of work.

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## SECTION G CONTRACT ADMINISTRATION DATA

### G1S SUBMISSION OF INVOICES -- COST REIMBURSEMENT (AUG 2005)

The Contractor shall submit invoices and any necessary supporting documentation, in accordance with the basic contract. Also, the Contractor shall provide duplicate information to the Electronic Cost Reporting and Financial Tracking (eCraft) system.

### G10S CONTRACTUAL AUTHORITY AND COMMUNICATIONS (SEP 2010)

(a) Functions: The Procuring Contracting Officer (PCO) for this contract is identified on the basic contract. Only the PCO can change the basic contract, and the PCO maintains primacy over the contract and all its task orders. The Task Order Ordering Officer of this Task Order is a warranted Ordering Officer of the Naval Undersea Warfare Center Division Newport. Unless otherwise noted, all references to "Ordering Officer" or "OO" in the text of this task order and the basic contract refer to the Task Order Ordering Officer. The Government reserves the right to administratively transfer authority over this task order from the individual named below to another Task Order Ordering Officer at any time.

(b) Authority: The Task Order Ordering Officer is the only person authorized to approve changes in any of the requirements of this task order and, notwithstanding provisions contained elsewhere in this task order, the said authority remains solely the Task Order Ordering Officer's. The Contractor shall not comply with any order, direction or request of Government personnel - that would constitute a change - unless it is issued in writing and signed by the Task Order Ordering Officer. No order, statement, or conduct of any Government personnel who visit the Contractor's facilities or in any other manner communicates with Contractor personnel during the performance of this task order shall constitute a change under the Changes clause of this task order and no adjustment will be made in the task order price to cover any increase in charges incurred as a result thereof.

(c) The Task Order Ordering Officer is:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

(d) The Task Order Negotiator is:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

(e) Ombudsman for the Naval Undersea Warfare Center Division, Newport, RI, is:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

### G11S CONTRACT ADMINISTRATION FUNCTIONS (SERVICES)(MAY 2006)

(a) The cognizant Administrative Contracting Office for this task order is identified in Block 6 on page one of this

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task order.

(b) **TASK ORDER ORDERING OFFICER RETAINED FUNCTIONS.** The Task Order Ordering Officer retains the administrative functions described in FAR 42.302(a) and listed below. These functions will be accomplished as set forth in the attached JA4S Task Order Administration Plan.

(3) Conduct post-award orientation conferences.

(40) Perform engineering surveillance to assess compliance with contractual terms for schedule, cost, and technical performance in the areas of design, development, and production.

(44) Perform engineering analyses of contractor cost proposals.

(45) Review and analyze contractor-proposed engineering and design studies and submit comments and recommendations to the contracting office, as required.

(46) Review engineering change proposals for proper classification, and when required, for need, technical adequacy of design, producibility, and impact on quality, reliability, schedule, and cost; submit comments to the contracting office.

(47) Assist in evaluating and make recommendations for acceptance or rejection of waivers and deviations.

(c) **TASK ORDER ACO DELEGATED FUNCTIONS.** The task order Administrative Contracting Officer (ACO) is delegated the following functions:

(1) All other functions of FAR 42.302(a) except (3), (22), (25), (29), (40), (44), (45), (46), (47), (51), (59), (62), (63), (64), and (70).

(2) The function of FAR 42.302(b)(6).

(d) If the task order ACO identifies a contract administration problem, the remedy for which is not covered by the above, the task order ACO shall request the Task Order Ordering Officer to delegate additional functions as necessary. The Task Order Ordering Officer may delegate authority by letter.

**G14S CONTRACTOR'S SENIOR TECHNICAL REPRESENTATIVE (AUG 2005)**

The contractor's senior technical representative, point of contact for performance under this task order is:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] [REDACTED]

**G17S TOM APPOINTMENT (AUG 2005)**

(a) The Task Order Ordering Officer hereby appoints the following individual as the Task Order Manager (TOM) for this task order:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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(b) The TOM is responsible for those specific functions assigned in the Task Order Administration Plan, attached.

(c) Only the Task Order Ordering Officer has the authority to modify the terms of the task order. Therefore, in no event will any understanding, agreement, modification, change order, or other matter deviating from the terms of the basic contract or this task order between the contractor and any other person be effective or binding on the Government. If, in the opinion of the contractor, an effort outside the existing scope of this task order is requested, the contractor shall promptly notify the Task Order Ordering Office in writing. No action shall be taken by the contractor unless the Task Order Ordering Officer, or basic contract PCO has issued a formal modification.

**G2S INVOICE INSTRUCTIONS (NAVSEA – SEP 2009) (NOV 2009)**

(a) In accordance with the clause of this contract entitled “ELECTRONIC SUBMISSION OF PAYMENT REQUESTS” (DFARS 252.232-7003), the Naval Undersea Warfare Center Division, Newport, Rhode Island (NUWCDIVNPT) utilizes the DoD Wide Area Workflow Receipt and Acceptance (WAWF) system to accept supplies/services delivered under this order. This web-based system located at <https://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 order shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices will 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/rda/home/acquisition\\_one\\_source/ebusiness/don\\_ebusiness\\_solutions/wawf\\_overview/vendor\\_information](http://acquisition.navy.mil/rda/home/acquisition_one_source/ebusiness/don_ebusiness_solutions/wawf_overview/vendor_information)

(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 <https://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:

<b>X</b>	<b>Cost Voucher (Cost Reimbursable, T&amp;M , LH, or FPI)</b> <b>Contractors MUST attach a completed SF-1035 in WAWF</b>
<b>Applies to CLINs/SLINS: ALL</b>	
Issue DODAAC	N66604
Admin DODAAC	S2101A
Pay Office DODAAC	HQ0338
DCAA Auditor	HAA630
Service Approver DODAAC	N66604

**ATTN CONTRACTORS:**

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- (1) CLIN/SLIN/ACRN information **MUST** be included on all WAWF submissions.
- (2) Your AAA WAWF fill-in is in your line of accounting associated with the CLIN/SLIN/ACRN you are billing. It is six (6) positions in length. Examples of it's location follow. The numbers underlined are the AAAs.

```
A1: 97X4930.NH6A 000 77777 0 066604 2F 000000 111111111111
AA: 97X4930.NH6A 000 77777 0 066604 2F 000000 222222222222
A1: 1781811.H230 310 TTTT77 0 068342 2D 000000 333333333333
AA: 1781811.H230 310 TTTT77 0 068342 2D 000000 444444444444
```

**(3) Unique Item Identification and Valuation (UID): If DFARS Clause 252.211-7003 (or I11-7003) is included in this order, you MUST ensure you submit the required information into WAWF. For additional information and training on UID, go to: <http://www.acq.osd.mil/dpap/pdi/uid/index.html> .**

**(4) 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.

<b>Send Additional Email Notification To:</b>

- (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.
- (g) If you have any questions regarding WAWF, please contact the WAWF helpdesk at the above 1-866 number or the NUWCDIVNPT WAWF point of contact, [REDACTED] [REDACTED] [REDACTED] catharine.costakos@navy.mil). **For payment status, log into WAWF, scroll to the bottom of the page, and click on the link for "Pay Status (myinvoice – External Link)". Call or e-mail [REDACTED] [REDACTED] only if you cannot get the answer through the WAWF Website.**

Accounting Data

SLINID	PR Number	Amount
1100	N66604-6235-1856	2698229.00
LLA :		
A1 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110 Reference: RCP# N0001906PX06		
921, ACRN AA (I743006)		
Standard Number: 0038813		

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1101 N66604-6241-3177 2219932.00  
 LLA :  
 A2 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E62110 Reference: RCP# N0001906WX  
 07096, ACRN AB (I741256)  
 Standard Number: 0038813

3100 N66604-6235-1869 4328354.00  
 LLA :  
 A1 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110 Reference: RCP# N0001906PX  
 06921, ACRN AA (I743006)  
 Standard Number: 0038813

3101 N66604-6241-3180 269204.00  
 LLA :  
 A2 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E62110 Reference: RCP# N0001906WX0  
 7096, ACRN AB (I741256)  
 Standard Number: 0038813

BASE Funding 9515719.00  
 Cumulative Funding 9515719.00

MOD 01

1103 N66604-6262-7965 521877.00  
 LLA :  
 A3 97X4930.NH6A 000 77777 0 066604 2F 000000 70T00670S910  
 Standard Number: 0038813

3103 N66604-6262-8006 483662.00  
 LLA :  
 A1 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110 Reference: RCP# N0001906PX06  
 921, ACRN AA (I743006)  
 Standard Number: 0038813

MOD 01 Funding 1005539.00  
 Cumulative Funding 10521258.00

MOD 02

1103 N66604-6262-7965-990 (521877.00)  
 LLA :  
 A3 97X4930.NH6A 000 77777 0 066604 2F 000000 70T00670S910  
 Standard Number: 0038813

MOD 02 Funding -521877.00  
 Cumulative Funding 9999381.00

MOD 03

110301 N66604-6275-1636 521877.00  
 LLA :  
 A1 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
 Standard Number: 0038813  
 Reference: RCP# N0001906PX06921, ACRN AA (I743007)

MOD 03 Funding 521877.00  
 Cumulative Funding 10521258.00

MOD 04

110401 N66604-6317-7807 2084211.00  
 LLA :  
 A4 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
 Standard Number: 0038813  
 Reference: RCP# N0001906PX06921, ACRN AA (I743007)

310401 N66604-6317-7809 936757.00

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LLA :  
A4 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001906PX06921, ACRN AA (I743007)

MOD 04 Funding 3020968.00  
Cumulative Funding 13542226.00

MOD 05

110501 N66604-7009-6639 941765.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

111001 N66604-7009-6648 939516.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310501 N66604-7009-6623 358193.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

311001 N66604-7009-6650 244857.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

MOD 05 Funding 2484331.00  
Cumulative Funding 16026557.00

MOD 06

110601 N66604-7009-6645 3337865.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310601 N66604-7009-6640 2617258.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

MOD 06 Funding 5955123.00  
Cumulative Funding 21981680.00

MOD 08

110201 N66604-7080-4261 54395.00  
LLA :  
A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

110701 N66604-7080-4263 567158.00  
LLA :  
A7 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Reference: RCP# N0001906WX07096, ACRN AB (I741267)

110702 N66604-7086-5948 474887.00  
LLA :



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A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

310201 N66604-7080-4262 3207308.00  
LLA :  
A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

310701 N66604-7080-4264 816880.00  
LLA :  
A7 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001906WX07096, ACRN AB (I741267)

MOD 08 Funding 5120628.00  
Cumulative Funding 27102308.00

MOD 09

110102 N66604-7166-0511 65269.00  
LLA :  
A7 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001906WX07096, ACRN AB (I741267)

110402 N66604-7166-0669 28840.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

110601 N66604-7166-0670 142732.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

110701 N66604-7166-0637 14231.00  
LLA :  
A7 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001906WX07096, ACRN AB (I741267)

110702 N66604-7166-0663 25500.00  
LLA :  
A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

110703 N66604-7166-0664 35437.00  
LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

111001 N66604-7167-0681 787034.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310002 N66604-7167-0682 19568.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310102 N66604-7166-0666 2893.00  
LLA :

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A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

310202 N66604-7166-0667 1218934.00  
LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

310402 N66604-7167-0685 42101.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310601 N66604-7167-0683 163050.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310702 N66604-7166-0668 176848.00  
LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

311001 N66604-7167-0684 524638.00  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

MOD 09 Funding 3247075.00  
Cumulative Funding 30349383.00

MOD 10

111101 N66604-7167-0686 1956574.00  
LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

310801 N66604-7167-0688 299408.00  
LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

311101 N66604-7167-0687 813114.00  
LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

MOD 10 Funding 3069096.00  
Cumulative Funding 33418479.00

MOD 16

111201 N66604-8078-6642 2383755.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
(RCP No.: N0001908RX72817; ACRN: AA; NUWC Job Order: I748008)

311201 N66604-8078-6644 258190.00  
LLA :

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A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
(RCP No.: N0001908RX72817; ACRN: AA; NUWC Job Order: I748008)

MOD 16 Funding 2641945.00  
Cumulative Funding 36060424.00

MOD 17

110202 N66604-8058-3521 30804.00  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
Ref: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order I747418

110302 N66604-8058-3518 258746.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Ref: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order I748008

310103 N66604-8058-3520 2760.00  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Ref: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order: I747418

MOD 17 Funding 292310.00  
Cumulative Funding 36352734.00

MOD 18

110002 N66604-8058-3495 30901.00  
LLA :  
B2 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP No. N0001906PX06921; ACRN: AA; NUWC Job Order: I744658

310602 N66604-8058-3511 2461.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

MOD 18 Funding 33362.00  
Cumulative Funding 36386096.00

MOD 19

110103 N66604-8058-3519 477490.00  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
Reference: N0001908RX72818; ACRN: AA; NUWC Job Order I747418

310003 N66604-8058-3493 22439.00  
LLA :  
B3 1771810.48JC 311 00019 0 050119 2D 000000 AIR30E844000  
Standard Number: 0038813  
Reference: RCP No. N0001907RX05111; ACRN: AA; NUWC Job Order: I744758

310004 N66604-8058-3509 539224.00  
LLA :  
B4 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: N0001907PX03800; ACRN: AA; NUWC Job Order: I744708

310005 N66604-8058-3510 98394.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

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Standard Number: 0038813  
Reference: N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

MOD 19 Funding 1137547.00  
Cumulative Funding 37523643.00

MOD 22

110704 N66604-8159-0995 40485.39  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA: NUWC I Job Order: I747418)

310703 N66604-8159-0997 226411.70  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA: NUWC I Job Order: I747418)

MOD 22 Funding 266897.09  
Cumulative Funding 37790540.09

MOD 23

110705 N66604-8162-1242 75423.00  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA: NUWC I Job Order: I747418)

310201 N66604-7080-4262 (30627.00)  
LLA :  
A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

310704 N66604-8162-1251 70110.00  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA: NUWC I Job Order: I747418)

MOD 23 Funding 114906.00  
Cumulative Funding 37905446.09

MOD 24

110003 N66604-8125-4403 79752.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

111002 N66604-8125-4405 484240.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

111202 N66604-8125-4407 122589.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

310006 N66604-8125-4404 5717.00  
LLA :  
B2 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110

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Standard Number: 0038813  
Reference: RCP No. N0001906PX06921; ACRN: AA; NUWC I job order: I744658

311002 N66604-8125-4406 298559.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

311202 N66604-8125-4408 652524.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

MOD 24 Funding 1643381.00  
Cumulative Funding 39548827.09

MOD 25

310007 N66604-8182-6354 30627.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

MOD 25 Funding 30627.00  
Cumulative Funding 39579454.09

MOD 26

110502 N66604-8187-7325 7186.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

110602 N66604-8187-7326 10225.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

MOD 26 Funding 17411.00  
Cumulative Funding 39596865.09

MOD 27

110801 N66604-8210-0938 259000.00  
LLA :  
B5 1771810.43SC 310 00019 0 050120 2D 000000 A00000011261  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX73753; ACRN: AA; NUWC I Job Order: I747108)

110802 N66604-8210-1028 669669.00  
LLA :  
B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC I Job Order: I747418)

MOD 27 Funding 928669.00  
Cumulative Funding 40525534.09

MOD 28

311003 N66604-8234-6526 51065.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

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Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

MOD 28 Funding 51065.00  
Cumulative Funding 40576599.09

MOD 29

111003 N66604-8234-6527 519846.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

311004 N66604-8241-8121 19813.00  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

MOD 29 Funding 539659.00  
Cumulative Funding 41116258.09

MOD 30

111004 N66604-8265-3918 62919.00  
LLA :  
B6 97X4930.NH6A 000 77777 0 066604 2F 000000 70000E741508  
Standard Number: 0038813

311005 N66604-8265-3919 8960.00  
LLA :  
B6 97X4930.NH6A 000 77777 0 066604 2F 000000 70000E741508  
Standard Number: 0038813

MOD 30 Funding 71879.00  
Cumulative Funding 41188137.09

MOD 34

111003 N66604-8234-6527 (224532.06)  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

111004 N66604-8265-3918 (5467.94)  
LLA :  
B6 97X4930.NH6A 000 77777 0 066604 2F 000000 70000E741508  
Standard Number: 0038813

111201 N66604-8078-6642 (605542.00)  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
(RCP No.: N0001908RX72817; ACRN: AA; NUWC Job Order: I748008)

311201 N66604-8078-6644 (9708.00)  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
(RCP No.: N0001908RX72817; ACRN: AA; NUWC Job Order: I748008)

MOD 34 Funding -845250.00  
Cumulative Funding 40342887.09

MOD 35

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110901 N66604-9062-3716 1898760.00  
 LLA :  
 B7 1791810.43SC 252 00019 0 050120 2D 000000 A00000104970  
 Standard Number: 0038813  
 (Reference: RCP No. N0001909RX00631; ACRN: AA; NUWC Job Order: I747999)

310901 N66604-9062-3718 2144360.00  
 LLA :  
 B7 1791810.43SC 252 00019 0 050120 2D 000000 A00000104970  
 Standard Number: 0038813  
 (Reference: RCP # N0001909RX00631; ACRN: AA; NUWC Job Order: I747999)

MOD 35 Funding 4043120.00  
 Cumulative Funding 44386007.09

MOD 37

110503 N66604-9061-3582 296788.00  
 LLA :  
 B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
 Standard Number: 0038813  
 Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

310502 N66604-9061-3583 381758.00  
 LLA :  
 B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
 Standard Number: 0038813  
 Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

311006 N66604-9061-3584 96589.00  
 LLA :  
 B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
 Standard Number: 0038813  
 Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

MOD 37 Funding 775135.00  
 Cumulative Funding 45161142.09

MOD 38

310802 N66604-9061-3585 119347.00  
 LLA :  
 B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
 Standard Number: 0038813  
 (Reference: RCP #N0001908RX72818; ACRN: AA; NUWC I Job Order: I747419)

MOD 38 Funding 119347.00  
 Cumulative Funding 45280489.09

MOD 39

110004 N66604-9131-5512 124593.00  
 LLA :  
 B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
 Standard Number: 0038813  
 RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

110104 N66604-9131-5517 69527.00  
 LLA :  
 B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
 Standard Number: 0038813  
 Reference: N0001908RX72818; ACRN: AA; NUWC Job Order: I747419

310008 N66604-9131-5514 6348.00  
 LLA :  
 B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
 Standard Number: 0038813  
 RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

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310603 N66604-9131-5515 73598.00  
 LLA :  
 B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
 Standard Number: 0038813  
 RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

MOD 39 Funding 274066.00  
 Cumulative Funding 45554555.09

MOD 40

111102 N66604-9131-5518 121551.00  
 LLA :  
 C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
 Standard Number: 0038813  
 Reference: RCP #N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

311102 N66604-9131-5519 544660.00  
 LLA :  
 C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
 Standard Number: 0038813  
 Reference: RCP #N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

MOD 40 Funding 666211.00  
 Cumulative Funding 46220766.09

MOD 41

111103 N66604-9164-1210 322000.00  
 LLA :  
 C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
 Standard Number: 0338813  
 Reference: RCP #N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

MOD 41 Funding 322000.00  
 Cumulative Funding 46542766.09

MOD 42

111104 N66604-9200-7958 176840.00  
 LLA :  
 B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
 Standard Number: 0038813  
 Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order: I747419

MOD 42 Funding 176840.00  
 Cumulative Funding 46719606.09

MOD 44

311103 N66604-9181-4068 14536.00  
 LLA :  
 B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
 Standard Number: 0038813  
 Reference: RCP #N0001908RX72818; ACRN: AA; NUWC Job Order: I747419

MOD 44 Funding 14536.00  
 Cumulative Funding 46734142.09

MOD 45

111105 N66604-9239-4221 352461.00  
 LLA :  
 C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
 Standard Number: 0038813  
 Reference: RCP No. N0001909RX01295; ACRN: AA; NUWC Job Order: I747889



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MOD 45 Funding 352461.00  
Cumulative Funding 47086603.09

MOD 46 Funding 0.00  
Cumulative Funding 47086603.09

MOD 47 Funding 0.00  
Cumulative Funding 47086603.09

MOD 48

111203 N66604-9253-6595 151547.00  
LLA :  
C2 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP: N0001908RX72817; ACRN: AA; NUWC Job Order: I743390

311203 N66604-9253-6597 61086.00  
LLA :  
C2 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I743390

MOD 48 Funding 212633.00  
Cumulative Funding 47299236.09

MOD 49

111301 N66604-0024-4143 1651504.00  
LLA :  
C3 1701810.43SC 252 00019 0 050120 2D 000000 A00000357965  
Standard Number: 0038813  
(Reference: RCP No. N0001910RX00502; ACRN: AA; NUWC Job Order: I742010)

311301 N66604-0024-4144 464751.00  
LLA :  
C3 1701810.43SC 252 00019 0 050120 2D 000000 A00000357965  
Standard Number: 0038813  
(Reference: RCP No. N0001910RX00502; ACRN: AA; NUWC Job Order: I742010)

MOD 49 Funding 2116255.00  
Cumulative Funding 49415491.09

MOD 50

110302 N66604-8058-3518 (2189.13)  
LLA :  
A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Ref: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order I748008

110401 N66604-6317-7807 (114231.90)  
LLA :  
A4 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001906PX06921, ACRN AA (I743007)

110402 N66604-7166-0669 (28840.00)  
LLA :  
A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

110503 N66604-9061-3582 (57091.90)  
LLA :  
B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

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110601 N66604-7166-0670 (35911.75)

LLA :

A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110

Standard Number: 0038813

Reference: RCP# N0001907PX03800, ACRN AA (I743017)

110602 N66604-8187-7326 (10225.00)

LLA :

A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

111004 N66604-8265-3918 (23827.90)

LLA :

B6 97X4930.NH6A 000 77777 0 066604 2F 000000 70000E741508

Standard Number: 0038813

3103 N66604-6262-8006 (25060.05)

LLA :

A1 1761810.43SC 312 00019 0 050119 2D 000000 PMA205E60110 Reference: RCP# N0001906PX06  
921, ACRN AA (I743006)

Standard Number: 0038813

310402 N66604-7167-0685 (19174.80)

LLA :

A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110

Standard Number: 0038813

Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310502 N66604-9061-3583 (72509.66)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

310603 N66604-9131-5515 (12187.78)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

311003 N66604-8234-6526 (4488.02)

LLA :

A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

MOD 50 Funding -405737.89

Cumulative Funding 49009753.20

MOD 51 Funding 0.00

Cumulative Funding 49009753.20

MOD 52 Funding 0.00

Cumulative Funding 49009753.20

MOD 53

110202 N66604-8058-3521 (7411.00)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

Ref: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order I747418

111105 N66604-9239-4221 (159678.00)

LLA :

C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692

Standard Number: 0038813

Reference: RCP No. N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

310202 N66604-7166-0667 (32158.00)

CONTRACT NO. N00178-04-D-4079	DELIVERY ORDER NO. N412	AMENDMENT/MODIFICATION NO. 67	PAGE 57 of 73	FINAL
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LLA :  
A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

310901 N66604-9062-3718 (281022.00)  
LLA :  
B7 1791810.43SC 252 00019 0 050120 2D 000000 A00000104970  
Standard Number: 0038813  
(Reference: RCP # N0001909RX00631; ACRN: AA; NUWC Job Order: I747999)

311102 N66604-9131-5519 (75423.00)  
LLA :  
C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
Standard Number: 0038813  
Reference: RCP #N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

MOD 53 Funding -555692.00  
Cumulative Funding 48454061.20

MOD 54

110105 N66604-0049-7990 286014.00  
LLA :  
C4 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
Standard Number: 0038813  
Reference: RCP No. N0001909RX01295; ACRN: AA; NUWC Job Order: I747880

MOD 54 Funding 286014.00  
Cumulative Funding 48740075.20

MOD 55

110706 N66604-0095-5147 89000.00  
LLA :  
C5 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order: I747410)

110707 N66604-0095-5151 31295.00  
LLA :  
C4 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
Standard Number: 0038813  
(Reference: RCP No. N0001909RX01295; ACRN: AA; NUWC Job Order: I747880)

110708 N66604-0095-5157 93587.00  
LLA :  
C3 1701810.43SC 252 00019 0 050120 2D 000000 A00000357965  
Standard Number: 0038813  
(Reference: RCP No. N0001910RX00502; ACRN: AA; NUWC Job Order: I742010)

MOD 55 Funding 213882.00  
Cumulative Funding 48953957.20

MOD 56 Funding 0.00  
Cumulative Funding 48953957.20

MOD 57 Funding 0.00  
Cumulative Funding 48953957.20

MOD 58

310802 N66604-9061-3585 (1814.93)  
LLA :  
B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP #N0001908RX72818; ACRN: AA; NUWC I Job Order: I747419)

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MOD 58 Funding -1814.93  
Cumulative Funding 48952142.27

MOD 59

110902 N66604-0160-3827 248898.00  
LLA :  
C4 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
Standard Number: 0038813  
Reference: RCP No. N0001909RX01295; ACRN: AA; NUWC Job Order: I747880

MOD 59 Funding 248898.00  
Cumulative Funding 49201040.27

MOD 60

111204 N66604-0052-8457 611505.00  
LLA :  
C2 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I743390

311204 N66604-0052-8456 59474.00  
LLA :  
C2 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I743390

MOD 60 Funding 670979.00  
Cumulative Funding 49872019.27

MOD 61

111205 N66604-0238-7741 590149.00  
LLA :  
C6 1791810.43SC 310 00019 0 050120 2D 000000 A00000535297  
Standard Number: 0038813  
Reference: RCP No. N0001910RX01544; ACRN: AA; NUWC Job Order: I743430

311205 N66604-0238-7742 247387.00  
LLA :  
C6 1791810.43SC 310 00019 0 050120 2D 000000 A00000535297  
Standard Number: 0038813  
Reference: RCP No. N0001910RX01544; ACRN: AA; NUWC Job Order: I743430

MOD 61 Funding 837536.00  
Cumulative Funding 50709555.27

MOD 62

110709 N66604-0319-0598 155004.00  
LLA :  
C7 1791810.43SC 310 00019 0 050120 2D 000000 A00000534632  
Standard Number: 0038813  
(Reference: RCP No. N0001910RX01543; ACRN: AA; NUWC Job Order: I742021)

311302 N66604-0331-2381 168966.00  
LLA :  
C7 1791810.43SC 310 00019 0 050120 2D 000000 A00000534632  
Standard Number: 0038813  
(Reference: RCP No. N0001910RX01543; ACRN: AA; NUWC Job Order: I742021)

MOD 62 Funding 323970.00  
Cumulative Funding 51033525.27

MOD 63

111105 N66604-9239-4221 (34790.00)

CONTRACT NO.	DELIVERY ORDER NO.	AMENDMENT/MODIFICATION NO.	PAGE	FINAL
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LLA :

C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
Standard Number: 0038813  
Reference: RCP No. N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

310802 N66604-9061-3585 (45790.00)

LLA :

B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP #N0001908RX72818; ACRN: AA; NUWC I Job Order: I747419)

310901 N66604-9062-3718 (132284.00)

LLA :

B7 1791810.43SC 252 00019 0 050120 2D 000000 A00000104970  
Standard Number: 0038813  
(Reference: RCP # N0001909RX00631; ACRN: AA; NUWC Job Order: I747999)

311102 N66604-9131-5519 (56694.00)

LLA :

C1 1791810.43SC 252 00019 0 050120 2D 000000 A00000175692  
Standard Number: 0038813  
Reference: RCP #N0001909RX01295; ACRN: AA; NUWC Job Order: I747889

311103 N66604-9181-4068 (14536.00)

LLA :

B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
Reference: RCP #N0001908RX72818; ACRN: AA; NUWC Job Order: I747419

MOD 63 Funding -284094.00  
Cumulative Funding 50749431.27

MOD 64 Funding 0.00  
Cumulative Funding 50749431.27

MOD 65 Funding 0.00  
Cumulative Funding 50749431.27

MOD 66

110201 N66604-7080-4261 (0.48)

LLA :

A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

110503 N66604-9061-3582 (9394.42)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

110601 N66604-7166-0670 (64927.66)

LLA :

A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110  
Standard Number: 0038813  
Reference: RCP# N0001907PX03800, ACRN AA (I743017)

110702 N66604-7166-0663 (2700.05)

LLA :

A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120  
Standard Number: 0038813  
Reference: RCP# N0001907RX08072, ACRN AA (I747257)

110703 N66604-7166-0664 (375.25)

LLA :

A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110  
Standard Number: 0038813  
Reference: RCP# N0001907RX07766, ACRN AA (I747447)

110801 N66604-8210-0938 (2294.53)

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LLA :

B5 1771810.43SC 310 00019 0 050120 2D 000000 A00000011261

Standard Number: 0038813

(Reference: RCP No. N0001908RX73753; ACRN: AA; NUWC I Job Order: I747108)

111001 N66604-7167-0681 (1.00)

LLA :

A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110

Standard Number: 0038813

Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310004 N66604-8058-3509 (3736.46)

LLA :

B4 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110

Standard Number: 0038813

Reference: N0001907PX03800; ACRN: AA; NUWC Job Order: I744708

310201 N66604-7080-4262 (20863.17)

LLA :

A6 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62120

Standard Number: 0038813

Reference: RCP# N0001907RX08072, ACRN AA (I747257)

310202 N66604-7166-0667 (26525.05)

LLA :

A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110

Standard Number: 0038813

Reference: RCP# N0001907RX07766, ACRN AA (I747447)

310402 N66604-7167-0685 (931.79)

LLA :

A5 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E60110

Standard Number: 0038813

Reference: RCP# N0001907PX03800, ACRN AA (I743017)

310502 N66604-9061-3583 (2465.76)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

310702 N66604-7166-0668 (2972.61)

LLA :

A8 1771810.43SC 312 00019 0 050119 2D 000000 PMA205E62110

Standard Number: 0038813

Reference: RCP# N0001907RX07766, ACRN AA (I747447)

MOD 66 Funding -137188.23

Cumulative Funding 50612243.04

MOD 67

110004 N66604-9131-5512 (11605.35)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

110202 N66604-8058-3521 (1115.50)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

Ref: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order I747418

110302 N66604-8058-3518 (517.81)

LLA :

A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Ref: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order I748008

110503 N66604-9061-3582 (11856.71)

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LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

110704 N66604-8159-0995 (105.34)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

(Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC I Job Order: I747418)

110705 N66604-8162-1242 (488.39)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

(Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC I Job Order: I747418)

110706 N66604-0095-5147 (207.71)

LLA :

C5 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

(Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order: I747410)

110802 N66604-8210-1028 (6076.66)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

(Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC I Job Order: I747418)

111002 N66604-8125-4405 (45.14)

LLA :

A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

111104 N66604-9200-7958 (1300.45)

LLA :

B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Standard Number: 0038813

Reference: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order: I747419

111204 N66604-0052-8457 (6003.51)

LLA :

C2 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I743390

310103 N66604-8058-3520 (1928.70)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818

Ref: RCP No. N0001908RX72818; ACRN: AA; NUWC Job Order: I747418

310502 N66604-9061-3583 (10648.58)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

310602 N66604-8058-3511 (709.76)

LLA :

A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748008

310603 N66604-9131-5515 (46934.44)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817

Standard Number: 0038813

RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

310703 N66604-8159-0997 (2664.21)

LLA :

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B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA: NUWC I Job Order: I747418)

310704 N66604-8162-1251 (6286.09)

LLA :

B1 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP No. N0001908RX72818; ACRN: AA: NUWC I Job Order: I747418)

310802 N66604-9061-3585 (18010.07)

LLA :

B9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72818  
Standard Number: 0038813  
(Reference: RCP #N0001908RX72818; ACRN: AA; NUWC I Job Order: I747419)

311002 N66604-8125-4406 (1.57)

LLA :

A9 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC I job order: I748008

311006 N66604-9061-3584 (8876.42)

LLA :

B8 1781810.43SC 310 00019 0 050120 2D 000000 HQ018RX72817  
Standard Number: 0038813  
Reference: RCP No. N0001908RX72817; ACRN: AA; NUWC Job Order: I748009

311205 N66604-0238-7742 (868.40)

LLA :

C6 1791810.43SC 310 00019 0 050120 2D 000000 A00000535297  
Standard Number: 0038813  
Reference: RCP No. N0001910RX01544; ACRN: AA; NUWC Job Order: I743430

MOD 67 Funding -136250.81  
Cumulative Funding 50475992.23



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## SECTION H SPECIAL CONTRACT REQUIREMENTS

### H14S ORGANIZATIONAL CONFLICT OF INTEREST - FAR 9.505-4

(a) In accordance with FAR 9.505-4, whereas the statement of work for this task order requires access to proprietary data of other companies the Contractor must agree with the other companies to (1) protect their information from unauthorized use or disclosure for as long as it remains proprietary and (2) refrain from using the information for any purpose other than that for which it was furnished. The Contractor agrees to furnish copies of such agreements to the Task Order Ordering Officer before accepting possession of such data. The Contractor further agrees that such proprietary data shall not be used in performing for the Department of Defense additional work in the same field as work performed under this task order if such additional work is procured competitively.

(b) For the purpose of this clause, the term "Contractor" means the Contractor, its subsidiaries and affiliates, joint ventures involving the Contractor, any entity with which the Contractor may hereafter merge or affiliate, and any other successor of the Contractor.

(c) The Contractor shall, within 15 days after the effective date of this task order, provide a written certification to the Task Order Ordering Officer that all employees, agents and subcontractors involved in the performance of this task order have been informed of the provisions of this clause.

(d) Any subcontractor which performs any work relative to this task order shall be subject to this clause. The Contractor agrees to place in each subcontract affected by these provisions the necessary language contained in this clause.

(e) The prohibitions imposed by this clause may be waived by the Task Order Ordering Officer.

(f) In the event the Contractor, or any of its employees, agents or subcontractors fails to comply with the provisions of this clause, such noncompliance shall be deemed a material breach of contract for which the Government reserves the right to terminate the task order for default and/or resort to such other rights and remedies as provided for under this task order and under the Federal law of contracts. Noncompliance with the provisions of this clause may also adversely affect the determination of Contractor responsibility in future Government acquisitions.

(g) The Government may administratively modify the contract to list agreements between the Contractor and third parties into the task order.

### H20S INSURANCE - WORK ON A GOVERNMENT INSTALLATION

The following types of insurance are required in accordance with the clause entitled, Insurance - Work On A Government Installation (FAR 52.228-5), and shall be maintained in the minimum amounts shown:

- (1) Comprehensive General Liability: \$200,000 per person and \$500,000 per accident for bodily injury.
- (2) Automobile Insurance: \$200,000 per person and \$500,000 per accident for bodily injury and \$20,000 per accident for property damage.
- (3) Standard Workmen's Compensation and Employer's Liability Insurance (or, where maritime employment is involved, Longshoremen's and Harbor Worker's Compensation Insurance) in the minimum amount of \$100,000.

### H52XS PRIOR WRITTEN PERMISSION REQUIRED TO SUBCONTRACT

None of the services required by this task order shall be subcontracted to or performed by persons other than the contractor, the contractor's employees, or those subcontractors which were proposed in the initial offer, without the prior written approval of the Procuring Contracting Officer.

Additional authorized subcontractors:

[REDACTED]

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#### H61S GOVERNMENT FURNISHED PROPERTY (GFP) (FEB 2005)

(a) The Government shall furnish Government property to the Contractor for use in connection with this task order.

(1) Government Furnished Equipment (GFE), Government Furnished Material (GFM) and Government facilities shall be made available for contractor's use as identified in the attached, Government Property Made Available. The property shall be made available, free of expense to the Contractor, in the quantities and at the times specified at the following locations: Southern California Anti-Submarine Warfare Range (SOAR), San Clemente Island, CA and Barking Sands Undersea Range Expansion (BSURE), Kauai, Hawaii (if options exercised).

(2) Government Furnished Information (GFI) shall be provided as identified in the Statement of Work and specifications. Unless specified otherwise, GFI will be furnished within 30 days after task order award.

(b) Only the identified items, in the quantity shown, will be furnished by the Government; however, additional Government property may be made available. All other material required for the performance of this task order shall be furnished by the Contractor. GFP furnished under this task order is for use exclusively under this task order unless specified otherwise in writing by the Task Order Ordering Officer.

(c) All Government Property furnished under this task order shall be returned to NUWCDIVNPT at the completion of the task order unless otherwise specified. The Contractor shall immediately advise the Task Order Ordering Officer, in writing, of any property lost, damaged, or transferred out of the Contractor's possession.

#### H70XS APPROVAL OF PREPRODUCTION DRAWINGS

a) The following drawings shall be submitted for approval to the Naval Undersea Warfare Center Division, Newport 10 prior to the Critical Design Review(s) and prior to commencement of manufacture of the supplies purchased hereunder:

i. SOAR CDR:

- Product Drawings/Models Associated Lists (Shallow Water OSS Engineering Drawings)
- Installation-Engineering Plan (SOAR Refurbishment Installation Plan)
- Installation-Engineering Plan (SOAR Sea Shore Interface Installation Plan)

ii. BSURE CDR:

- Product Drawings/Models Associated Lists (Deep Water OSS Engineering Drawings),
- Installation-Engineering Plan (BSURE Refurbishment Installation Plan)
- Installation-Engineering Plan (BSURE Sea Shore Interface Installation Plan)

(b) The Government shall have 20 calendar days, plus normal mailing time, in which to review the drawings for deviations from contract specifications, and return them to the contractor marked "approved", "disapproved", or "approved subject to corrections noted". For every day of delay in approval or disapproval of drawings by the Government, the Contractor shall be entitled to an additional day for delivery of the supplies. Any time lost due to disapproval of drawing and resubmission for approval shall not constitute excusable delay under the "Default" clause of this contract, unless such disapproval proves to have been unjustified under the contract specifications. For inspection purposes, the approved preproduction drawings shall govern in the event of any discrepancies between them and any specifications or other drawings. Any changes in the specifications shall be made by the Contracting Officer pursuant to the "Changes" clause of this contract and not under the procedures of this clause.

#### H100XS AVAILABILITY/REMOVAL OF HDD WATER ON-SITE

(a) The Government will provide Horizontal Directional Drilling (HDD) Water, as follows:

i) in support of SOAR – The government will supply up to 40,000-gallons of water per day in 20,000-gallon bladders within the drill site.

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ii) in support of BSURE – The government will supply water from a 2-inch standpipe within 100-yards of the drill site. The contractor shall be responsible for transferring the water the 100-yard distance.

(b) for the SOAR site only, the Government will be responsible for the removal of HDD water and slurry from the site. For the BSURE site, the contractor shall be responsible for removing HDD water and slurry from the site to an appropriate facility per applicable Federal, state, and local regulations.

#### H150XS WEATHER DELAYS

An excusable weather delay is defined as conditions that exceed Beaufort wind scale force 4. Force 4 is defined as: 1) 11 to 16 knot winds; 2) Sea-surface (small waves, becoming longer; numerous whitecaps); 3) Sea-state 3; and, 4) 0.5 to 1.5 meter wave height. All four of these conditions must be exceeded to qualify for an excusable weather delay.

#### **H81S TRAVEL COSTS AND RESPONSIBILITIES (JUL 2008)**

(a) Performance under this contract may require travel by contractor personnel. If travel, domestic or overseas, is required, the Contractor shall be responsible for making all needed arrangements for its personnel. This includes, but is not limited to, medical examinations; immunizations; passports, visas, etc. and security clearances. If any work will take place on a U.S. Navy vessel, the Contractor shall obtain boarding authorization for all contractor personnel from the Commanding Officer of the vessel. Authorization shall be obtained prior to boarding.

(b) The Government will reimburse the Contractor for allowable travel costs incurred by the Contractor in performance of the contract in accordance with FAR subpart 31.2 or 31.3 as applicable.

There may be situations where contractor employees and government employees travel together in government vehicles, or in vehicles rented by the government under the terms of the U.S. Car Rental Agreement (currently available at [http://www.defensetravel.dod.mil/Docs/CarRentalAgreement\\_050508.pdf](http://www.defensetravel.dod.mil/Docs/CarRentalAgreement_050508.pdf)) the government has with various rental car companies. In such situations, contractor employees may only be passengers (not drivers) in such vehicles. If a contractor employee is a passenger in a government vehicle or a vehicle rented by the government, it would be on a “no additional cost to the government” basis. If a contractor employee is a passenger in a government vehicle, the contractor shall indemnify and hold the government harmless from all liability resulting from personal injury or death or damage to property which may occur as a result of such joint travel. When a contractor is a passenger in a vehicle rented by the government, liability would be limited to the terms set out in the U.S. Car Rental Agreement in effect at the time of any incident.

#### H83S SERVICE CONTRACT ACT WAGE DETERMINATION (DEC 2006)

The applicable Service Contract Act Wage Determinations by the Secretary of Labor are provided below (identified to the current Revision available as of the issue date of this solicitation):

Wage Determination #:

- 05-2153 Rev. 12 (Hawaii)
- 05-2057 Rev. 9 (California, San Diego)
- 05-2047 Rev. 9 (California, Orange/Los Angeles County)
- 05-2063 Rev. 8 (California, Santa Barbara County)

The above Wage Determinations (WD) can be accessed from the following website:

<http://www.wdol.gov/>

Choose “Selecting WDs” from the menu. After choosing the appropriate area, answer the “prompts” as follows (these answers are applicable to this solicitation):

1. Were these services previously performed at this locality under an SCA-Covered contract? NO.
2. Are any of the employees performing work subject to a CBA? NO.
3. Are the contract services to be performed listed below as Non-Standard Services? NO.

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4. Were these services previously performed under an SCA wage determination that ends in an even number?  
Example: 1994-2104; or 1994-2114. NO.

The site will provide the appropriate WD.

#### **H160XS SAN CLEMENTE ISLAND (SOAR) WORK RESTRICTIONS**

SOAR directional drilling operations shall only occur between the hours of 5 am and 9 pm. The contractor is allowed to set-up and turn on lighting, as required, only during these hours. All lighting must be turned off outside of these hours. During setup of any required lighting, the contractor shall minimize illumination extending outside the drilling site boundaries as illustrated in appendix C.

#### **H168XS EQUIPMENT MECHANICS AVAILABILITY (applies to both SOAR and BSURE)**

The government will provide 4 personnel (equipment mechanics) to operate the GFE linear cable engine and pengo winch being provided as GFE. The operators will be available for 12 hours per day, 2 shifts of two people.

#### **H169XS RESPONSIBILITY FOR TRASH REMOVAL (FOR SOAR ONLY)**

The government will remove general construction debris. General construction debris is defined as paper, cardboard, wood in lengths less than 4 feet, household garbage such as empty food containers and food remnants, bottles, and steel material in lengths less than 4 feet and capable of lifting by hand

#### **H170XS BARGE TRANSPORTATION (FOR SOAR ONLY)**

The government will provide SCI barge transportation. The contractor must deliver the items IAW the following: Vehicles and other non-explosive equipment, supplies, and materials may be shipped, on a space available basis, to and from San Clemente Island on a regularly scheduled barge. Manifesting is required <sup>nd</sup>two weeks in advance. Items to be shipped must be taken to the Naval Station San Diego (32<sup>nd</sup> Street) Barge. Deliveries can be made only through Gate 9. Proof of delivery must be presented to the gate guard to gain entrance to the Naval Station, i.e., a DD1149 or a shipping document from the company making the delivery. Contact the Natural Resources Operations Manager for manifest information and assistance. Weather and sea conditions may impact barge departure. The contractor shall check with the Operations Manager when shipping to determine whether the barge will depart on time.

1. Items must arrive for shipment not later than the days and times indicated: Naval Station San Diego, Pier 10, Tuesday 0800; San Clemente Island, Bldg. 60138, Wednesday 1000.

2. Items will be available for pick-up on the days and times indicated: San Clemente Island, Bldg. 60138, Wednesday 1000; Naval Station San Diego, Pier 10, Thursday 1200.

#### **H200S DIVING OPERATION AVAILABILITY- BSURE DRILLING ONLY**

The Underwater Construction Team Two from the Naval COnstruction Battalion Center, Port Hueneme will provide all of the diving operations, utilizing Government personnel, required at the BSURE directional drilling site only (Statement of Work, Task N ONLY).

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## SECTION I CONTRACT CLAUSES

52.222-41 Service Contract Act of 1965, as Amended (Jul 2005)

252.222-7000 RESTRICTIONS ON EMPLOYMENT OF PERSONNEL (MAR 2000)

para.(a) fill-in: contract work in HAWAII

### **252.222-7006 RESTRICTIONS ON THE USE OF MANDATORY ARBITRATION AGREEMENTS (MAY 2010)**

I22-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (FAR 52.222-42) (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.

Employee Class Monetary Wage - Fringe Benefits

SEE CLAUSE H83S for guidance.

52.223-5 POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (AUG 2003)

52.223-11 OZONE-DEPLETING SUBSTANCES (MAY 2001)

52.223-14 TOXIC CHEMICAL RELEASE REPORTING (AUG 2003)

252.223-7006 PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS (APR 1993)

252.231-7000 SUPPLEMENTAL COST PRINCIPLES (DEC 1991)

52.237-2 PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT AND VEGETATION (APR 1984)

52.245-1 GOVERNMENT PROPERTY (June 2007)

52.247-63 PREFERENCE FOR U.S.-FLAG AIR CARRIERS (JUN 2003)

52.247-67 SUBMISSION OF COMMERCIAL TRANSPORTATION BILLS TO THE GENERAL SERVICES ADMINISTRATION FOR AUDIT (JUN 1997)

I23-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA

(FAR 52.223-3) (JAN 1997)

(a) "Hazardous material", as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (if None, state "NONE") Identification No.

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(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.

(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:

(1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--

(i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

(ii) Obtain medical treatment for those affected by the material; and

(iii) Have others use, duplicate, and disclose the data for the Government for these purposes.

(2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

(3) The Government is not precluded from using similar or identical data acquired from other sources.

#### I23-7001 HAZARD WARNING LABELS (DFARS 252.223-7001) (DEC 1991)

(a) "Hazardous material," as used in this clause, is defined in the Hazardous Material Identification and Material Safety Data clause of this contract.

(b) The Contractor shall label the item package (unit container) of any hazardous material to be delivered under this contract in accordance with the Hazard Communication Standard (29 CFR 1910.1200 et seq). The Standard requires that the hazard warning label conform to the requirements of the standard unless the material is otherwise subject to the labeling requirements of one of the following statutes:

(1) Federal Insecticide, Fungicide and Rodenticide Act;

(2) Federal Food, Drug and Cosmetics Act;

(3) Consumer Product Safety Act;

(4) Federal Hazardous Substances Act; or

(5) Federal Alcohol Administration Act.

(c) The Offeror shall list which hazardous material listed in the Hazardous Material

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Identification and Material Safety Data clause of this contract will be labeled in accordance with one of the Acts in paragraphs (b)(1) through (5) of this clause instead of the Hazard Communication Standard. Any hazardous material not listed will be interpreted to mean that a label is required in accordance with the Hazard Communication Standard.

MATERIAL(If none, insert "None") ACT

(d) The apparently successful Offeror agrees to submit, before award, a copy of the hazard warning label for all hazardous materials not listed in paragraph (c) of this clause. The Offeror shall submit the label with the Material Safety Data Sheet being furnished under the Hazardous Material Identification and Material Safety Data clause of this contract.

(e) The Contractor shall also comply with MIL-STD-129, Marking for Shipment and Storage (including revisions adopted during the term of this contract).

### **52.222-54 Employment Eligibility Verification (Jan 2009)**

(a) *Definitions.* As used in this clause—

“Commercially available off-the-shelf (COTS) item”—

(1) Means any item of supply that is—

(i) A commercial item (as defined in paragraph (1) of the definition at 2.101);

(ii) Sold in substantial quantities in the commercial marketplace; and

(iii) Offered to the Government, without modification, in the same form in which it is sold in the commercial marketplace; and

(2) Does not include bulk cargo, as defined in section 3 of the Shipping Act of 1984 (46 U.S.C. App. 1702), such as agricultural products and petroleum products. Per 46 CFR 525.1(c)(2), “bulk cargo” means cargo that is loaded and carried in bulk onboard ship without mark or count, in a loose unpackaged form, having homogenous characteristics. Bulk cargo loaded into intermodal equipment, except LASH or Seabee barges, is subject to mark and count and, therefore, ceases to be bulk cargo.

“Employee assigned to the contract” means an employee who was hired after November 6, 1986, who is directly performing work, in the United States, under a contract that is required to include the clause prescribed at 22.1803. An employee is not considered to be directly performing work under a contract if the employee—

(1) Normally performs support work, such as indirect or overhead functions; and

(2) Does not perform any substantial duties applicable to the contract.

“Subcontract” means any contract, as defined in 2.101, entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.

“Subcontractor” means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime Contractor or another subcontractor.

“United States,” as defined in 8 U.S.C. 1101(a)(38), means the 50 States, the District of Columbia, Puerto Rico, Guam, and the U.S. Virgin Islands.

(b) *Enrollment and verification requirements.*

(1) If the Contractor is not enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall—



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- (i) *Enroll*. Enroll as a Federal Contractor in the E-Verify program within 30 calendar days of contract award;
- (ii) *Verify all new employees*. Within 90 calendar days of enrollment in the E-Verify program, begin to use E-Verify to initiate verification of employment eligibility of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); and
- (iii) *Verify employees assigned to the contract*. For each employee assigned to the contract, initiate verification within 90 calendar days after date of enrollment or within 30 calendar days of the employee's assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section).
- (2) If the Contractor is enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall use E-Verify to initiate verification of employment eligibility of—
- (i) *All new employees*.
- (A) *Enrolled 90 calendar days or more*. The Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or
- (B) *Enrolled less than 90 calendar days*. Within 90 calendar days after enrollment as a Federal Contractor in E-Verify, the Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section ); or
- (ii) *Employees assigned to the contract*. For each employee assigned to the contract, the Contractor shall initiate verification within 90 calendar days after date of contract award or within 30 days after assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section).
- (3) If the Contractor is an institution of higher education (as defined at 20 U.S.C. 1001(a)); a State or local government or the government of a Federally recognized Indian tribe; or a surety performing under a takeover agreement entered into with a Federal agency pursuant to a performance bond, the Contractor may choose to verify only employees assigned to the contract, whether existing employees or new hires. The Contractor shall follow the applicable verification requirements at (b)(1) or (b)(2), respectively, except that any requirement for verification of new employees applies only to new employees assigned to the contract.
- (4) *Option to verify employment eligibility of all employees*. The Contractor may elect to verify all existing employees hired after November 6, 1986, rather than just those employees assigned to the contract. The Contractor shall initiate verification for each existing employee working in the United States who was hired after November 6, 1986, within 180 calendar days of—
- (i) Enrollment in the E-Verify program; or
- (ii) Notification to E-Verify Operations of the Contractor's decision to exercise this option, using the contact information provided in the E-Verify program Memorandum of Understanding (MOU).
- (5) The Contractor shall comply, for the period of performance of this contract, with the requirement of the E-Verify program MOU.
- (i) The Department of Homeland Security (DHS) or the Social Security Administration (SSA) may terminate the Contractor's MOU and deny access to the E-Verify system in accordance with the terms of the MOU. In such case, the Contractor will be referred to a suspension or debarment official.
- (ii) During the period between termination of the MOU and a decision by the suspension or debarment official whether to suspend or debar, the Contractor is excused from its obligations under paragraph (b) of this clause. If the suspension or debarment official determines not to suspend or debar the Contractor, then the Contractor must reenroll in E-Verify.
- (c) *Web site*. Information on registration for and use of the E-Verify program can be obtained via the Internet at the Department of Homeland Security Web site: <http://www.dhs.gov/E-Verify> .

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(d) *Individuals previously verified.* The Contractor is not required by this clause to perform additional employment verification using E-Verify for any employee—

(1) Whose employment eligibility was previously verified by the Contractor through the E-Verify program;

(2) Who has been granted and holds an active U.S. Government security clearance for access to confidential, secret, or top secret information in accordance with the National Industrial Security Program Operating Manual; or

(3) Who has undergone a completed background investigation and been issued credentials pursuant to Homeland Security Presidential Directive (HSPD) -12, Policy for a Common Identification Standard for Federal Employees and Contractors.

(e) *Subcontracts.* The contractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for identification of the parties), in each subcontract that—

(1) *Is for* —

(i) Commercial or noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item); or

(ii) Construction;

(2) Has a value of more than \$3,000; and

(3) Includes work performed in the United States.

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## SECTION J LIST OF ATTACHMENTS

Task Order Administration Plan

Pacific Missile Range Facility Information

DD1423- Contract Data Requirements List (with revised Addendum)- modification 07

**Listing of Government Property Made Available (as revised by modification 58; adds UPS and split pipe; allows access to a signal processor (use, not title))**

**Performance Specification (as revised by modification 58)**

Appendices A-K (with Appendices H and I revised- to reflect the actual BSURE Construction Site and Construction Site coordinates- per modification 51)

San Clemente Island (SCI) Information- revised (note: during performance, the contractor must pay for any flights to SCI).

Waivers:

W030004-002 entitled "Bi-Directional Transducer Transmit Characteristics, approved 2007/10/02 and  
W030004-001 entitled "Uni-Directional Transducer Receive Sensitivity Characteristics, approved 2007/10/02  
W03004-005 entitled "Bi-directional Transducer Test Pressure Characteristics", approved 4/12/09  
W03004-006 entitled "Uni-Directional Transducer- Acoustic Receive Sensitivity Characteristics", approved  
11/18/09  
W03004-007 entitled "Bi-Directional Transducer- Acoustic Receive Sensitivity and Transmit Characteristics",  
approved 11/18/09  
W030004-008 entitled "Hydrophone- Acoustic Receive Beam Pattern Characteristics", approved 3 FEB 2010  
W030004-010 entitled "LF Testing at Ambient Temperature", approved 3 FEB 2010  
W030004-011 entitled "WQC Filter Band Edges", approved 3 FEB 2010  
W030004-012 entitled "BSURE Receive Transducer Acoustic Characteristics", approved 05 APR 2010  
W030004-013 entitled "BSURE Bi-Directional Transducer Acoustic Receive and Transmit Characteristics",  
approved 05 APR 2010  
Waiver #W030004-014 entitled "BSURE LF Projector TVR", approved 17 May 2010.

Hydrophone Renumbering Information