AMENDMENT OF SOLICITATIO	N/MODIFICATION OF	CONTRACT	1. CONTRACT ID CODE		1 8
2. AMENDMENT/MODIFICATION NO. 22	3. EFFECTIVE DATE 30-Nov-2018	4. REQUISITION/P	JRCHASE REQ. NO. 681046/1300726497	5. PROJE	CT NO. (If applicable) N/A
6. ISSUED BY CODE	N00024	7. ADMINISTERED	BY (If other than Item 6)	CODE	S2101A
Naval Sea Systems Command (NAV	SEA)	 DCMA	Baltimore		SCD: C
BUILDING 197, ROOM 5w-2730133 WASHINGTON NAVY YARD DC 20		1800	AST REDWOOD STREET, S MORE MD 21202-3375	UITE	
B. NAME AND ADDRESS OF CONTRACTOR (	No., street, county, State, and Z	Zip Code)	9A. AMENDMENT OF SOLICITA	ATION NO.	
1201 M. Street SE, Suite 400 Washington DC 20003			9B. DATED (SEE ITEM 11)		
		[X]	10A. MODIFICATION OF CONT	RACT/ORDER	NO.
		1.4	N00178-04-D-4030-E	H08	
10B. [			10B. DATED (SEE ITEM 13)		
CAGE 8X463 FAC	LITY CODE		01-Sep-2016		
11.	THIS ITEM ONLY APPL	JES TO AMENDM	ENTS OF SOLICITATIONS		
separate letter or telegram which includes a refe DESIGNATED FOR THE RECEIPT OF OFFER you desire to change an offer already submitted amendment, and is received prior to the opening 12. ACCOUNTING AND APPROPRIATION DA	S PRIOR TO THE HOUR AND , such change may be made by g hour and date specified. TA (If required)	DATE SPECIFIED MAY	RESULT IN REJECTION OF YOUR	OFFER. If by vi	rtue of this amendment
	JLL	SECTIONS			
			NS OF CONTRACTS/ORDER S DESCRIBED IN ITEM 14.	RS,	
			SET FORTH IN ITEM 14 ARE MADE	IN THE CONT	RACT ORDER NO. IN
B. THE ABOVE NUMBERED CONT date, etc.)SET FORTH IN ITEM 14,			NISTRATIVE CHANGES (such as ch	anges in paying	g office, appropriation
[X] C. THIS SUPPLEMENTAL AGREEM Mutual Agreement of the Parties	3	SUANT TO AUTHORITY	OF:		
[ ] D. OTHER (Specify type of modifica	tion and authority)				
E. IMPORTANT: Contractor [] is not, [X  14. DESCRIPTION OF AMENDMENT/MODIFICATION OF AMENDMENT/MODIFICATION OF AMENDMENT/MODIFICATION OF AMENDMENT/MODIFICATION OF AMENDMENT/MODIFICATION OF AMENDMENT/MODIFICATION OF AME				here feasible.)	
SEE PAGE 2					
15A. NAME AND TITLE OF SIGNER (Type or p	rint)	16A. NAME AND TIT	LE OF CONTRACTING OFFICER (T	ype or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATE	S OF AMERICA		16C. DATE SIGNED
		BY			
(Signature of person authorized to sign)		(	Signature of Contracting Officer)		

30-105

NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE STANDARD I

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

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#### **GENERAL INFORMATION**

The purposes of this Modification to Task Order N00178-04-D-4030-EH08-22 is to:

- 1. Establish SLINs 7000MQ, 7000MR, 7000MS, 7000MT, 7000MU, 7000MV and 7000MW;
- 2. Transfer ceiling from CLIN 7000AA to fund SLINs 7000KM,7000LP, 7000MQ, 7000MR, 7000MS, 7000MT, 7000MU, 7000MV, 7000MW;
- 3. Transfer ceiling from SLIN 9000AA to fund SLIN 9000LP;
- 4. Update Section F, Period of Performance;
- 5. Update Section G, Accounting Data;
- 6. Update Section H, Allotment of fund Clause;

Accordingly, said Task Order is hereby modified as follows:

 $1. \ \ Under Section \ B-Supplies \ or \ Services \ establish \ SLINs \ 7000MQ, \ 7000MR, \ 7000MS, \ 7000MT, \ 7000MU, \ 7000MV \ and \ 7000MW \ as \ follows:$ 

Item	Labor Hours	Description	Start Date	End Date
7000MQ		LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY19 RDTE)	11/29/2018	9/1/2019
7000MR		SEA 05 Cost Support PEO IWS 10.0 TS9 (FY19 RDTE)	11/29/2018	9/1/2019
7000MS		SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (FY19 RDTE)	11/29/2018	9/1/2019
7000MT		SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (FY19 RDTE)	11/29/2018	9/1/2019

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7000MU	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2,E6,E9,E10,E12,E13,E14,E19,E20,PM1,PM4,PM6,PM7,EM1,EM4,EM5	11/29/2018	9/1/2019
7000MV	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9 (FY15 SCN)	12/4/2018	9/1/2019
7000MW	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9 (FY18 SCN)	12/3/2018	9/1/2019

2. Under Section B - Supplies or Services transfer ceiling from labor Option SLIN 7000AA to fund SLINs 7000KM,7000LP, 7000MQ, 7000MR, 7000MS, 7000MT, 7000MU, 7000MV and 7000MW as follows:

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000AA					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	
7000KM					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000LP					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MQ					
Ceiling/	FROM:				
Funding	BY:				
	TO:				
ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MR					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

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ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MS					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MT					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MU					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MV					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

ITEM	CHANGE	LABOR HOURS	EST. COST	FIXED FEE	CPFF
7000MW					
Ceiling/	FROM:				
Funding	BY:				
	TO:				

3. Transfer ceiling from ODC Option SLIN 9000AA to fund 9000LP as follows:

ITEM	CHANGE	EST. COST
9000AA	FROM:	
	BY:	
	TO:	

ITEM	CHANGE	EST. COST
9000LP	FROM:	
	BY:	
	TO:	

4. Under Section F - Deliveries or Performance update as follows:

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SLINS	T Of F 1	D: - 1 - f D f
SLINS	Type Of Fund	Period of Performances
7000MQ	FY 19 RDTE	11/29/2018 - 9/1/2019
7000MR	FY19 RDTE	11/29/2018 - 9/1/2019
7000MS	FY19 RDTE	11/29/2018 - 9/1/2019
7000MT	FY19 RDTE	11/29/2018 - 9/1/2019
7000MU	FY 19 RDTE	11/29/2018 - 9/1/2019
7000MV	FY15 SCN	12/4/2018 - 9/1/2019
7000MW	FY18 SCN	12/3/2018 - 9/1/2019

5. Under Section G, Accounting Data, update as follows:

MOD 22

7000KM 130068104600019 477000.00

LLA:

HZ 1781319 84TX 251 V5T00 0 050120 2D 000000 A10004272778

7000LP 130072649700006 800000.00

LLA:

KB 1781319 86ED 255 V5SBI 0 050120 2D 000000 A10004601604

7000MQ 130075594100002 25000.00

LLA:

LD 1791319 15YV 251 SH377 0 050120 2D 000000 A10004818876

7000MR 130075594100001 250000.00

LLA:

LE 1791319 A5XZ 251 WS100 0 050120 2D 000000 A00004818876

7000MS 130075594200001 179000.00

LLA:

LF 1791319 84TX 251 V5T00 0 050120 2D 000000 A00004819135

7000MT 130075594200002 413000.00

LLA:

 $LG\ 1791319\ 84TX\ 251\ V5T00\ 0\ 050120\ 2D\ 0000000\ A20004819135$ 

7000MU 130075594200003 132000.00

LLA:

LG 1791319 84TX 251 V5T00 0 050120 2D 000000 A10004819135

7000MV 130060882500026 21519.00

LLA:

LJ 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000

7000MW 130075594600001 97000.00

LLA:

LK 1781611 1589 251 SH377 0 050120 2D 000000 A00004819426

9000LP 130072649700007 20000.00

LLA:

KB 1781319 86ED 255 V5SBI 0 050120 2D 000000 A10004601604

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MOD 22 Funding 2414519.00

6. Under Section H – Special Contract Requirements is hereby updated as follows:

5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

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

#### CPFF/CPIF/ODC

# ITEM ALLOTTED TO COST ALLOTTED TO FEE EST. POPTHROUGH 7000FT

- (b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.
- (c) CLIN(s)/SLIN(s) 7000AB, 7000AC, 7000AD, 7000AE, 7000AF, 7000AG, 7000AH, 7000AJ, 7000AK, 7000AL, 7000AM, 7000AN, 7000AP, 7000AQ, 7000AR, 7000AS, 7000AT, 7000AU, 7000AV, 7000AW, 7000AX, 7000AY, 7000AZ, 7000BB, 7000BC, 7000BD, 7000BE, 7000BF, 7000BH, 7000BJ, 7000BK, 7000BL, 7000BM, 7000BN, 7000BP, 7000BQ, 7000BR, 7000BS, 7000BT, 7000BV, 7000BW, 7000BX, 7000BY, 7000BZ, 7000CA, 7000CB, 7000CC, 7000CD, 7000CE, 7000CF, 7000CG, 7000CH, 7000CJ, 7000CK, 7000CL, 7000CM, 7000CN, 7000CP, 7000CQ, 7000CR, 7000CS, 7000CT, 7000CU, 7000CV, 7000CW, 7000CX, 7000CY, 7000CZ, 7000DA, 7000DB, 7000DC, 7000DD, 7000DE, 7000DF, 7000DG, 7000DH, 7000DJ, 7000DK, 7000DL, 7000DM, 7000DN, 7000DP, 7000DO, 7000DR, 7000DS, 7000DT, 7000DU, 7000DV, 7000DW, 7000DX, 7000DY, 7000DZ, 7000EA, 7000EB, 7000EC, 7000ED, 7000EE, 7000EF, 7000EG, 7000EH, 7000EJ, 7000EK, 7000EL, 7000EM, 7000EN, 7000EP, 7000EQ, 7000ER, 7000ES, 7000ET, 7000EU, 7000EV, 7000EW, 7000EX, 7000EZ, 7000FA, 7000FB, 7000FC, 7000FD, 7000FE, 7000FF, 7000FG, 7000FH, 7000FJ, 7000FK, 7000FL, 7000FM, 7000FN, 7000FP, 7000FQ, 7000FR, 7000FS, 7000FU, 7000FV, 7000FW, 7000FX, 7000FY, 7000FZ, 7000GA, 7000GB, 7000GC, 7000GD, 7000GE, 7000GF, 7000GG, 7000GH, 7000GJ, 7000GK, 7000GL, 7000GM, 7000GN, 7000GP, 7000GQ, 7000GR, 7000GS, 7000GT, 7000GU, 7000GV, 7000GW, 7000GX, 7000GY, 7000GZ, 7000HA, 7000HB, 7000HC, 7000HD, 7000HE, 7000HF, 7000HJ, 7000HK, 7000HL, 7000HM, 7000HP, 7000HQ, 7000HR, 7000HS, 7000HT, 7000HU, 7000HV, 7000HW, 7000HX, 7000HY, 7000JA, 7000JB, 7000JC, 7000JD, 7000JE, 7000JF, 7000JG, 7000JH, 7000JJ, 7000JK, 7000JL, 7000JM, 7000JN, 7000JP, 7000JQ, 7000JR, 7000JS, 7000JT, 7000JU, 7000JV, 7000JW, 7000JX, 7000JY, 7000JZ, 7000KA, 7000KB, 7000KC, 7000KD, 7000KE, 7000KF, 7000KG, 7000KH, 7000KJ, 7000KK, 7000KL, 7000KM, 7000KN, 7000KP, 7000KQ, 7000KR, 7000KS, 7000KT, 7000KU, 7000KV, 7000KW, 7000KX, 7000KY, 7000KZ, 7000LB, 7000LC, 7000LD, 7000LE, 7000LF, 7000LG, 7000LH, 7000LJ, 7000LK, 7000LM, 7000LN, 7000LP, 7000LQ, 7000LR, 7000LS, 7000LT, 7000LU, 7000LV, 7000LW, 7000LX, 7000LY, 7000LZ, 7000MA, 7000MB, 7000MC, 7000MD, 7000ME, 7000MF, 7000MG, 7000MH, 7000MJ, 7000MK, 7000ML, 7000MM, 7000MN, 7000MP, 7000MQ, 7000MR, 7000MS, 7000MT, 7000MU, 7000MV, 7000MW, 9000AB, 9000AC, 9000AD, 9000AL, 9000AM, 9000AS, 9000AV, 9000AW, 9000AX, 9000AZ, 9000BA, 9000BD, 9000BJ, 9000BM, 9000BN, 9000BQ, 9000BU, 9000BV, 9000BX, 9000CA, 9000CE, 9000CF, 9000CH, 9000CJ, 9000CK, 9000CM, 9000CS, 9000CT, 9000CY, 9000CZ, 9000DD, 9000DE, 9000DJ, 9000DK, 9000DL, 9000DM, 9000DR, 9000DU, 9000DY, 9000DZ, 9000EC, 9000ED, 9000EF, 9000EH, 9000EL, 9000EM, 9000EN, 9000EP, 9000EO, 9000ES, 9000ET, 9000EU, 9000EV, 9000EW, 9000EX, 9000EZ, 9000FB, 9000FD, 9000FF, 9000FG, 9000FJ, 9000FM, 9000FP, 9000FQ, 9000FR, 9000FS, 9000FT, 9000FX, 9000GB, 9000GC, 9000GE, 9000GG, 9000GJ, 9000GL, 9000GM, 9000GR, 9000GS, 9000GT, 9000GV,

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 $9000\mathrm{GW},\,9000\mathrm{GZ},\,9000\mathrm{HD},\,9000\mathrm{HE},\,9000\mathrm{HF},\,9000\mathrm{HJ},\,9000\mathrm{HK},\,9000\mathrm{HL},\,9000\mathrm{HU},\,9000\mathrm{HV},\,9000\mathrm{HV},\,9000\mathrm{HW},\,9000\mathrm{HX},\,9000\mathrm{HY},\,9000\mathrm{HY},\,9000\mathrm{HZ},\,9000\mathrm{JR},\,9000\mathrm{JR},\,9000\mathrm{JR},\,9000\mathrm{JR},\,9000\mathrm{JR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{KR},\,9000\mathrm{LR}$ 

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

A conformed copy of this Task Order is attached to this modification for informational purposes only.

The Line of Accounting information is hereby changed as follows:

The total amount of funds obligated to the task is hereby increased from \$79,853,626.86 by \$2,414,519.00 to \$82,268,145.86.

CLIN/SLIN	Type Of Fund	From (\$)	By (\$)	To (\$)
7000KM	RDT&E	400,000.00	477,000.00	877,000.00
7000LP	RDT&E	1,000,000.00	800,000.00	1,800,000.00
7000MQ	RDT&E	0.00	25,000.00	25,000.00
7000MR	RDT&E	0.00	250,000.00	250,000.00
7000MS	RDT&E	0.00	179,000.00	179,000.00
7000MT	RDT&E	0.00	413,000.00	413,000.00
7000MU	RDT&E	0.00	132,000.00	132,000.00
7000MV	SCN	0.00	21,519.00	21,519.00
7000MW	SCN	0.00	97,000.00	97,000.00
9000LP	RDT&E	40,000.00	20,000.00	60,000.00

The total value of the order is hereby increased from \$95,272,846.08 by \$0.00 to \$95,272,846.08.

CLIN/SLIN	From (\$)	By (\$)	To (\$)
7000AA	11,942,257.37	(2,394,519.00)	9,547,738.37
7000KM	400,000.00	477,000.00	877,000.00
7000LP	1,000,000.00	800,000.00	1,800,000.00
7000MQ	0.00	25,000.00	25,000.00
7000MR	0.00	250,000.00	250,000.00
7000MS	0.00	179,000.00	179,000.00
7000MT	0.00	413,000.00	413,000.00
7000MU	0.00	132,000.00	132,000.00
7000MV	0.00	21,519.00	21,519.00
7000MW	0.00	97,000.00	97,000.00
9000AA	3,455,442.52	(20,000.00)	3,435,442.52

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9000LP 40,000.00 20,000.00 60,000.00

The Period of Performance of the following line items is hereby changed as follows:

CLIN/SLIN	From	То
7000MQ		11/29/2018 - 9/1/2019
7000MR		11/29/2018 - 9/1/2019
7000MS		11/29/2018 - 9/1/2019
7000MT		11/29/2018 - 9/1/2019
7000MU		11/29/2018 - 9/1/2019
7000MV		12/4/2018 - 9/1/2019
7000MW		12/4/2018 - 9/1/2019

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# SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item		Supplies/Services	Qty	Unit Est. Cost	Fixed CPFF
7000		Additional Year - Ceiling			\$88,187,858.20
7000AA	R499	Additional Year - Ceiling (Fund Type - TBD)	LH		\$9,547,738.37
7000AB	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5 $(O\&MN,N)$ $(O\&MN,N)$		LH	\$2,980,814.00
7000AC	R499	Electronic Business Decision Management (eBDMS) E4, TS5 (O&MN,N) (O&MN,N)		LH	\$141,600.00
7000AD	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. $(\text{O&MN},\text{N})$ $(\text{O&MN},\text{N})$		LH	\$663,315.00
7000AE	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$170,000.00
7000AF	R499	SEA 05Z Program Support E2,PM1,EM4 (O&MN,N) (O&MN,N)		LH	\$35,700.00
7000AG	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN},\text{N})$ $(\text{O\&MN},\text{N})$		LH	\$10,875.00
7000AH	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN},\text{N})$ $(\text{O\&MN},\text{N})$		LH	\$36,750.00
7000AJ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) $(O&MN,N)$		LH	\$41,700.00
7000AK	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) $(O&MN,N)$		LH	\$28,775.00
7000AL	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (O&MN,N) (O&MN,N)		LH	\$845,248.00
7000AM	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (O&MN,N) (O&MN,N)		LH	\$247,300.00
7000AN	R499	PMS325 Boat Engineering and Program Management Support E10,PM1,PM2,PM3 and PS2 (O&MN,N) (O&MN,N)		LH	\$142,231.00
7000AP	R499	PMS325 Boat Engineering and Program Management Support E10,PM1,PM2,PM3 and PS2 (O&MN,N) (O&MN,N)		LH	\$121,082.00
7000AQ	R499	SEA 05T FRR-DP Program and Financial Management. PM1, PM2, EM4 (FY16 RDTE) (RDT&E)		LH	\$124,000.00
7000AR	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development(CPSD) Program and Financial Management PM1, PM2, EM3, EM4, TL1, TL2(FY16 RDTE) (RDT&E)		LH	\$274,000.00
7000AS	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2, E6, E9, E10, E12, E13, E14, E19, E20,P M1, PM4, PM6, PM7, EM1, EM4 (FY16 RDTE) (RDT&E)		LH	\$188,400.00
7000AT	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2, E6, E9, E10, E12, E13, E14, E19, E20, PM1, PM4, PM6, PM7, EM1, EM4 (FY16 RDTE) (RDT&E)		LH	\$335,000.00
7000AU	R499	Strike Force Interoperability C5IMP Support PM1-3, PM6 E3, E4 (FY16 RDTE) (RDT&E)		LH	\$484,623.00
7000AV	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4,TS5 (FY16 RDTE) (RDT&E)		LH	\$96,050.00
7000AW	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4,TS5 (FY16 RDTE) (RDT&E)		LH	\$97,350.00
7000AX	R499	CVN 78 Class Carrier Engineering Team Support. E1, E2, E4, E7, E9, E12,E15, E16, E17, PM1-3, PM9; EM1-4, PS1, PS2 (FY16 RDTE) (RDT&E)		LH	\$473,227.00
7000AY	R499	SEA 05T Technology Office Support PM1, PM2, PM4, PM5, EM4, EM6. (FY16 RDTE) (RDT&E)		LH	\$100,000.00
7000AZ	R499	PMS 420 LSC Mission Package Cost Support to SEA 05C PM2 and TS9 (FY16 RDTE) (RDT&E)		LH	\$74,000.00
7000BB	R499	Littoral Combat Ship (LCS) Cost Estimating Support/ Analysis Task PM2 and TS9 (FY16 RDTE) (RDT&E)		LH	\$337,500.00

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Item	PSC	Supplies/Services	Qty	Unit Est. Cost	Fixed CPFF
7000BC	R499	T-AO(X) Fleet Replenishment(T-AO Navy Oiler) E1,E2,E5,E7,E10,E13,PM1,PM2,PM5 and PM9 (FY15 RDTE) (RDT&E)		LH	\$160,000.00
7000BD	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY16 RDTE) (RDT&E)		LH	\$199,000.00
7000BE	R499	DDG 51 Flight Upgrade III Ship Design Management Engineering and Integration in support of Preliminary Contract and Detail Design E5, EM2, EM3, EM5, TS7 (FY16 SCN) (SCN)		LH	\$670,000.00
7000BF	R499	T-AO(X) Fleet Replenishment(T-AO Navy Oiler) E1, E2, E5, E7, E10, E13, PM1, PM2, PM5 and PM9 (FY16 SCN) (SCN)		LH	\$354,000.00
7000BH	R499	ZUMWALT Class ship Design Manager Support. E2 (FY15 SCN) (SCN)		LH	\$143,175.00
7000BJ	R499	Ship-to-Shore Connector (SSC) DD&C E1-2,E4-7,E9-17,E19-E20, PM1-9, EM1-3, EM5, TL1-2. (FY15 SCN) (SCN)		LH	\$860,000.00
7000BK	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY16 NDSF) (NDSF)		LH	\$200,000.00
7000BL	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY16 NDSF) (NDSF)		LH	\$1,000,000.00
7000BM	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2. (FY 14 OPN) (OPN)		LH	\$250,000.00
7000BN	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (OCF O&MN,N) N4657916RC00112 (O&MN,N)		LH	\$59,000.00
7000BP	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (OCF O&MN,N) N6051416RC001IN (O&MN,N)		LH	\$247,500.00
7000BQ	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)		LH	\$430,000.00
7000BR	R499	T-AGS 66 Engineering and Management Program Management Support E1-E14, E16, E19, E22, E24, PM1-PM3, PM5, PM9 and PS1 (FY15 OCF OPN) N6230615RC00227 (OPN)		LH	\$150,000.00
7000BS	R499	FMC Systems and Logistics Engineering Support E1-E6 and TS5 (FMS ADMIN) (FMS Case #XX-X-XXX)		LH	\$244,106.00
7000BT	R499	T-AGS 66 Engineering and Management Program Management Support E1-E14, E16, E19, E22, E24, PM1-PM3, PM5, PM9 and PS1 (FY 07 SCN) (SCN)		LH	\$253,506.00
7000BV	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$490,000.00
7000BW	R499	SEA 05Z Program Support PM 1- and EM4 (O&MN,N) (O&MN,N)		LH	\$133,900.00
7000BX	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (O&MN,N) (O&MN,N)		LH	\$113,957.00
7000BY	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH	\$189,425.00
7000BZ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) (O&MN,N)		LH	\$6,475.00
7000CA	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$385,000.00
7000CB	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$13,000.00
7000CC	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$72,000.00
7000CD	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$51,000.00
7000CE	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2, E6, E9, E10, E12, E13, E14, E19, E20, PM1, PM4, PM6, PM7, EM1, EM4 (O&MN,N) (O&MN,N)		LH	\$315,000.00
7000CF	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development Program and Financial Management PM1, PM2,EM3,EM4,TL1,TL2 (FY 16 RDTE) (RDT&E)		LH	\$50,000.00
7000CG	R499	(SEWIP) DDG 51 Flight Upgrade III Ship Design Management Engineering and Integration in support of Contract and Detail Design E5, EM2, EM3, EM5, TS1,TS7,TS8 (FY 16 RDTE) (RDT&E)		LH	\$134,000.00
7000CH	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY 16 RDTE) (RDT&E)		LH	\$515,827.00
7000CJ	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) and Force Level Safety Support E4 and TS5. (FY16 RDT&E) (RDT&E)		LH	\$143,200.00

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7000CK	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) and Force Level Safety Support E4 and TS5. (FY16 RDTE) (RDT&E)		LH	\$53,750.00
7000CL	R499	Littoral Combat Ship (LCS) Cost Estimating Support/ Analysis Task PM2 and TS9. (FY 16 RDTE) (RDT&E)		LH	\$169,200.00
7000CM	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY 16 RDTE) (RDT&E)		LH	\$215,000.00
7000CN	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY16 RDTE) (RDT&E)		LH	\$\$87,000.00
7000CP	R499	SEA 05C Cost Support for PEO IWS 1.0 Aegis Modernization, Task TS9 (FY 16 RDTE) (RDT&E)		LH	\$60,000.00
7000CQ	R499	SEA 05C Cost Support for PEO IWS 10.0 QRCC program, Task TS9(FY 16 RDTE) (RDT&E)		LH	\$237,000.00
7000CR	R499	SEA 05C Cost Support for PEO IWS 6.0 Laser for Navy Application ,Task TS9 (FY16 RDTE) (RDT&E)		LH	\$80,000.00
7000CS	R499	LX(R) Systems Engineering - Indicative, Preliminary, and Contract Designs, System Trade Studies, Cost Estimating, System Engineering Technical Review, Gate, and Milestone DAB Support E1-7, E9-10, E-17-18, E22, E24, PM1, PM2, PM4, PM5, PM9, EM1-7, TS1, TS4-5, TS8, TS9, TL1-2. (FY16 RDTE) (RDT&E)		LH	\$7,650,000.00
7000CT	R499	Combat system integration Systems Engineering Team Support E4, TS5 (FY16 RDTE) (RDT&E)		LH	\$111,061.00
7000CU	R499	SEA 05C Cost Support for PEO IWS 2.0 (FY 16 OPN) (OPN)		LH	\$75,000.00
7000CV	R499	SEA 05C Cost Support for PEO IWS 6.0 (FY 15 OPN) (OPN)		LH	\$45,000.00
7000CW	R499	SEA 05C Cost Support for PEO IWS 6.0 TS9 (FY 16 OPN) (OPN)		LH	\$22,500.00
7000CX	R499	SEA 05C Cost Support for PEO IWS 6.0 TS9 (O&MN,N) (O&MN,N)		LH	\$7,500.00
7000CY	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY 15 SCN) (SCN)		LH	\$171,250.00
7000CZ	R499	Littoral Combat Ship (LCS) Cost Estimating Support/ Analysis Task PM2 and TS9. (FY 15 SCN)) (SCN)		LH	\$171,250.00
7000DA	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9(FY15 SCN) (SCN)		LH	\$65,000.00
7000DB	R499	SEA 05C Cost Support for PEO IWS 6.0 TS9 (FY12 SCN) (SCN)		LH	\$220,000.00
7000DC	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2. (FY 16 SCN) (SCN)		LH	\$695,000.00
7000DD	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY16 NDSF) (NDSF)		LH	\$800,000.00
7000DE	R499	Theater Anti-Submarine Warfare (ASW) History and Analysis Support for Future Force Architecture TWH E3, E5, E8, E9, TS1, TS2, TS3, TS8, TL2 FY16 RDTE OCF N6887616RCRC008 (RDT&E)		LH	\$231,000.00
7000DF	R499	Theater Anti-Submarine Warfare (ASW) History and Analysis Support for Future Force Architecture TWH E3, E5, E8, E9, TS1, TS2, TS3, TS8, TL2 (FY15 RDTE) N6887615RCK0032 (RDT&E)		LH	\$194,000.00
7000DG	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (OCF O&MN,N) N6051416RC001IN (O&MN,N)		LH	\$125,000.00
7000DH	R499	T-AGS 66 Engineering and Management Program Management Support E1-E14, E16, E19, E22, E24, PM1-PM3, PM5, PM9 and PS1 (O&MN,N) (O&MN,N)		LH	\$132,000.00
7000DJ	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (FY14 OPN) (OPN)		LH	\$234,198.00
7000DK	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (WCF) (WCF)		LH	\$127,000.00
7000DL	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)		LH	\$425,000.00
7000DM	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5 (O&MN,N) (O&MN,N)		LH	\$498,800.00
7000DN	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)		LH	\$175,000.00
7000DP	R499	05V1 Engineering and Management support for the In-Service and Complex Overhaul (RCOH) Carrier Engineering Team. E1-E9, E11, E12, E17, E18, E20, E22, PM1-PM9, EM1-EM6, PS1 and PS2 (O&MN,N) (O&MN,N)		LH	\$44,966.00

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7000DQ	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)		LH	\$34,109.00
7000DR	R499	(PMS 505) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)		LH	\$153,023.00
7000DS	R499	(PEO LCS) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)		LH	\$541,000.00
7000DT	R499	(PMS 495) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)		LH	\$225,000.00
7000DU	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2, E6, E9, E10, E12, E13, E14, E19, E20, PM1, PM4, PM6, PM7, EM1, EM4, EM5 (FY16 RDT&E) (RDT&E)		LH	\$48,000.00
7000DV	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2, E6, E9, E10, E12, E13, E14, E19, E20, PM1, PM4, PM6, PM7, EM1, EM4, EM5 (FY15 RDT&E) (RDT&E)		LH	\$48,000.00
7000DW	R499	SEA 05T FRR-DP Program and Financial Management PM1, PM2, EM4 (FY16 RDTE) (RDT&E)		LH	\$15,000.00
7000DX	R499	T-AO(X) Fleet Replenishment(T-AO Navy Oiler) E1, E2, E5, E7, E10, E13, PM1, PM2, PM5 and PM9 (FY15 RDTE) (RDT&E)		LH	\$65,000.00
7000DY	R499	(PMS 515) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY16 RDTE) (RDT&E)		LH	\$530,000.00
7000DZ	R499	T-ATF Engineering and Project Management Support. El, E2, E4, E5, E7,E9, E10, E11, E13, E17, E24, PM1, PM2, EM1, EM2, EM3, and TS1(FY15 RDTE) (RDT&E)		LH	\$170,104.00
7000EA	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY16 RDTE) (RDT&E)		LH	\$223,220.00
7000EB	R499	SEA 05 Cost Support for PEO IWS 3.0 Railgun, TS9 (FY16 RDTE) (RDT&E)		LH	\$100,000.00
7000EC	R499	Ship-to-Shore Connector (SSC) DD&C E1-2,E4-7,E9-17,E19- E20,PM1-9,EM1-3,EM5,TL1-2.(FY15 SCN) (SCN)		LH	235,881.00
7000ED	R499	Amphibious Assault Ship (LHA) Detail Design & Construction Support E1-E10, E12-13, E15-E19, PM1-PM4, PM6, PM7, PM9, EM1-EM6 and TL1. (FY12 SCN) (SCN)		LH \$1,	272,000.00
7000EE	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development Program and Financial Management PM1, PM2,EM3,EM4,TL1,TL2 (FY16 RDTE) (RDT&E)		LH	\$120,000.00
7000EF	R499	DDG 51 Class Ship Design Manager Technical Support E2, E3, E5, E6, E7, E8, E9, E11, E12, E17 (FY13 SCN) (SCN)		LH	\$304,500.00
7000EG	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (FY16 SCN) (SCN)		LH	\$695,000.00
7000EH	R499	AGOR Engineering and Program Management Support. E10, PM1, PM2, PM6, PM7, PM9, EM2, EM4, TS5 (FY12 SCN) (SCN)		LH	\$180,000.00
7000EJ	R499	(PMS 501) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY15 SCN) (SCN)		LH	\$85,500.00
7000EK	R499	(PMS 501) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY15 SCN) (SCN) $$		LH	\$85,500.00
7000EL	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (FY15 OPN OCF) (OPN)		LH	\$200,000.00
7000EM	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (O&MN,N OCF) N3131A16WR00112 (O&MN,N)		LH	\$73,588.00
7000EN	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (O&MN,N OCF) (O&MN,N)		LH	\$116,137.00
7000EP	R499	T-AGS 66 Engineering and Program Management Support E1-2,E4-E14, E16,E19, E22, E24, PM1-PM3, PM5, PM9, PS1(FY15 OPN OCF) N6230615RC00627 (OPN)		LH	\$\$25,000.00
7000EQ	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (O&MN,N OCF) N3241616RC0011P (O&MN,N)		LH	\$44,000.00
7000ER	R499	USCG Acquisition Programmatic & Technical Support, Planning, Analysis &Assessment. E1-E8, E10-E13, E17-E20, 22, 24, PM1-9, EM1-3, EM5,TS1,TS3-4, and TS7-9 (O&MN,N OCF) HSCG2316XMSR059 (O&MN,N)		LH	\$107,919.00
7000ES	R499	USCG Acquisition Programmatic & Technical Support, Planning, Analysis &Assessment. E1-E8, E10-E13, E17-E20, 22, 24, PM1-9, EM1-3, EM5,TS1,TS3-4, and TS7-9 (O&MN,N) OCF (O&MN,N)		LH	\$1,715,181.00

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7000ET	R499	T-AO(X) Fleet Replenishment (T-AO Navy Oiler) E1, E2, E5, E7, E10, E13, PM1, PM2, PM5 and PM9(16 SCN) (SCN)		LH	\$979,560.00
7000EU	R499	Engineering in Support of the LSC Acquisition and Lifecycle Program E1-E8,PM1-PM7 (FMS ADMIN) (FMS Case #XX-X-XXX)		LH	\$32,726.00
7000EV	R499	FMC Systems and Logistics Engineering Support E1-E6 ,E10,PM1,PM2,PM3,PM6,PM7,PS2,TS5 TS5 (FMS ADMIN) (FMS Case #XX-X-XXX)		LH	\$224,000.00
7000EW	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (WCF OCF NUWC) (WCF)		LH	\$\$23,582.88
7000EX	R499	SEA 05Z Program Support. E2,EM4,PM1(O&MN,N) (O&MN,N)		LH	\$65,891.00
7000EZ	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5. (O&M,N) (O&MN,N)		LH	\$320,000.00
7000FA	R499	SEA 05Z Program Support. E2, EM4, PM1 (0&M,N) (O&MN,N)		LH	\$79,823.00
7000FB	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&M,N) (O&MN,N)		LH	\$275,000.00
7000FC	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$15,000.00
7000FD	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$377,000.00
7000FE	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$39,600.00
7000FF	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (O&MN,N) (O&MN,N)		LH	\$432,069.00
7000FG	R499	SEA 05T Marine Engineering. Provide Technical and Programmatic Support (SBIR) PM 1-2, EM3-4, TL1-2. (FY16 RDTE) (RDT&E)		LH	\$400,000.00
7000FH	R499	SEA 05T FRR-DP Program and Financial Management PM1, PM2, EM4 (FY17 RDTE) (RDT&E)		LH	\$197,000.00
7000FJ	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5. (FY17 RDTE) (RDT&E)		LH	\$597,000.00
7000FK	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5. (FY16 RDTE) (RDT&E)		LH	\$115,000.00
7000FL	R499	CVN 78 Class Carrier Engineering Team Support. E1, E2, E4, E7, E9, E12,E15, E16, E17, PM1-3, PM9, EM1-4, PS1, PS2. (FY17 RDTE) (RDT&E)		LH	\$148,497.00
7000FM	R499	CVN 79 Class Carrier Engineering Team Support. E1, E2, E4, E7, E9, E12, E15, E16, E17, PM1-3, PM9, EM1-4, PS1, PS2. (FY17 RDTE) (RDT&E)		LH	\$228,647.00
7000FN	R499	SEA 05C Cost Support for PEO IWS 1.0 Aegis Modernization, Task TS9 (O&MN,N) (O&MN,N)		LH	\$25,000.00
7000FP	R499	Ship-to-Shore Connector (SSC) DD&C E1-2,E4-7,E9-17,E19- E20,PM1-9,EM1-3,EM5,TL1-2.(FY16 RDTE) (RDT&E)		LH	\$305,000.00
7000FQ	R499	CVN 72 05V1 Engineering and Management support for the In-Service and Complex Overhaul (RCOH) Carrier Engineering Team E1-E9,E11,E12,E17,E18,E20,E22,PM1-PM9,EM1-EM6,PS1 and PS2 (FY17 SCN) (SCN)		LH	\$257,411.00
7000FR	R499	CVN 73 05V1 Engineering and Management support for the In-Service and Complex Overhaul (RCOH) Carrier Engineering Team E1-E9,E11,E12,E17,E18,E20,E22,PM1-PM9,EM1-EM6,PS1 and PS2 (FY16 SCN) (SCN)		LH	\$577,025.00
7000FS	R499	CVN 74 05V1 Engineering and Management support for the In-Service and Complex Overhaul (RCOH) Carrier Engineering Team E1-E9,E11,E12,E17,E18,E20,E22,PM1-PM9,EM1-EM6,PS1 and PS2 (FY17 SCN) (SCN)		LH	\$235,592.00
7000FT	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis. TS9 (FY15 SCN) (SCN)		LH	\$90,000.00
7000FU	R499	Littoral Combat Ship (LSC) Cost Estimating Support/Analysis Task PM2 and TS9. (FY 16 SCN) (SCN)		LH	\$\$78,562.00
7000FV	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY16 SCN) (SCN)		LH	\$78,562.00
7000FW	R499	LX(R) Systems Engineering - Indicative, Preliminary, and Contract Designs, System Trade Studies, Cost Estimating, System Engineering Technical Review, Gate, and Milestone DAB Support E1-7, E9-10,E-17-18, E22, E24, PM1,PM2,PM4,PM5, PM9, EM1-7, TS1,TS4-5, TS8, TS9, TL1-2. (FY12 SCN) (SCN)		LH	\$295,000.00
7000FX	R499	ZUMWALT Class Ship Design Manager Support E2 (FY17 SCN) (SCN)		LH	\$178,900.00
7000FY	R499	Engineering Support for USNS Puller (ESB3) PS1 and PS2. (FY16 NDSF) (NDSF)		LH	\$90,136.00

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7000FZ	R499	USCG Acquisition Programmatic & Technical Support, Polar Ice Breaker Phase		LH	\$0.00
		2 Studies. E1,E2,E7,E9,E13,E14,E19,E20,E22,PM1,PM2,PM3,PM5,PM7,EM2,EM3,EM4,TS3,TS5,TS9 (O&MN,N OCF) HSCG2317XAPB002 (SCN)			
7000GA	R499	FMC Systems and Logistics Engineering Support E1-E6 ,E10,PM1,PM2,PM3,PM6,PM7,PS2,TS5 TS5 (FMS KU-P-GGC) (FMS Case #KU-P-GGC)		LH	\$269,000.00
7000GB	R499	FMC Systems and Logistics Engineering Support E1-E6 ,E10,PM1,PM2,PM3,PM6,PM7,PS2,TS5 TS5 (FMS ADMIN) (FMS Case #XX-X-XXX)		LH	\$469,672.00
7000GC	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY17 RDTE) (RDT&E)		LH	\$2,109,500.00
7000GD	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. FY17 OMN (O&MN,N)		LH	\$280,569.00
7000GE	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY17 RDTE) (RDT&E)		LH	\$760,861.00
7000GF	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY17 OMN) (O&MN,N)		LH	\$90,000.00
7000GG	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5, EM4, E2 (O&MN,N) (O&MN,N) $$		LH	\$740,000.00
7000GH	R499	05V1 Engineering and Management support for the In-Service and Complex Overhaul (RCOH) Carrier Engineering Team E1-E9, E11, E12, E17, E18, E20, E22, PM1-PM9, EM1-EM6, PS1 and PS2(O&MN,N) (O&MN,N)		LH	\$40,000.00
7000GJ	R499	Electronic Business Decision Management (eBDMS) E4, TS5 (O&MN,N) (O&MN,N)	LH		\$157,000.00
7000GK	R499	PMS325 Boat Engineering and Project Management Support E10, PM1, PM2, PM3 and PS2 $(O\&MN,N)$ $(O\&MN,N)$		LH	\$125,000.00
7000GL	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4, TS5 (FY17 RDTE) (RDT&E)		LH	\$430,651.00
7000GM	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development(CPSD) Program and Financial Management PM1, PM2, EM3, EM4, TL1, TL2 (FY17 RDTE) (RDT&E)		LH	\$283,000.00
7000GN	R499	(CVN 80) Class Carrier Engineering Team Support. E1, E2, E4, E7, E9, E12, E15, E16, E17, PM1-3, PM9; EM1-4, PS1, PS2 (FY17 RDTE) (RDT&E)		LH	\$23,680.00
7000GP	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY17 RDTE) (RDT&E)		LH	\$300,000.00
7000GQ	R499	LHA 8 Cost Estimating and Analysis Support to SEA 05C TS9 (FY17 RDTE) (RDT&E)		LH	\$223,220.00
7000GR	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4 and TS5. (FY17 RDT&E) (RDT&E)		LH	\$862,600.00
7000GS	R499	Systems Engineering Team Support E4, TS5 (FY17 RDTE) (RDT&E)		LH	\$\$835,989.00
7000GT	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY17 RDTE) (RDT&E)		LH	\$941,120.00
7000GU	R499	Amphibious Assault Ship (LHA) Detail Design & Construction Support E1-E10, E12-13, E15-E19, PM1-PM4, PM6, PM7, PM9, EM1-EM6 and TL1. (FY16 SCN) (SCN)		LH	\$650,000.00
7000GV	R499	T-AGS 66 Engineering and Program Management Support E1-E14, E16, E19, E22, E24, PM1-PM3, PM5, PM9 and PS1 (FY13 SCN) (SCN)		LH	\$145,000.00
7000GW	R499	PMS325 Boat Engineering and Program Management Support E10, PM1, PM2, PM3 and PS2 (FY17 OPN) (OPN)		LH	215,000.00
7000GX	R499	SEA 05Z Marine Engineering PM 1-2,EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$51,400.00
7000GY	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN,N) (O&MN,N)		LH	\$70,527.00
7000GZ	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN,N) (O&MN,N)		LH	\$69,527.00
7000HA	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FMS ADMIN) (FMS Case #XX-X-XXX)		LH	\$35,876.00
7000HB	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN},\text{N})$ $(\text{O\&MN},\text{N})$		LH	\$405,957.00
7000HC	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN,N})$ $(\text{O\&MN,N})$		LH	\$117,550.00

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7000HD	R499	Afloat Cybersecurity Program Management Support PM1, PM2, PM3, PM4, TL2 (FY17 RDTE) (RDT&E)		LH	\$580,000.00
7000HE	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (O&MN,N) (O&MN,N)		LH	\$445,000.00
7000HF	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)	LH		\$195,000.00
7000HJ	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3,PS2 (O&MN,N) (O&MN,N)		LH	\$66,354.00
7000HK	R499	LX(R) Systems Engineering - Indicative, Preliminary, and Contract Designs, System Trade Studies, Cost Estimating, System Engineering Technical Review, Gate, and Milestone DAB Support E1-7, E9-10, E-17-18, E22, E24, PM1, PM2, PM4, PM5, PM6, PM9, EM1-7, TS1, TS4-5, TS8, TS9, TL1-2. (FY16 RDTE) (RDT&E)		LH	\$100,000.00
7000HL	R499	SEA 05T Marine Engineering. Provide Technical and Programmatic Support (SBIR) PM1-2, EM3-4, TL1-2. (FY16 RDTE) (RDT&E)		LH	\$565,665.00
7000HM	R499	Ship-to-Shore Connector (SSC) DD&C E1-2,E4-7,E9-17,E19- E20,PM1-9,EM1-3,EM5,TL1-2.(FY16 RDTE) (RDT&E)		LH	\$55,000.00
7000HP	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY RDTE) (RDT&E)		LH	\$125,000.00
7000HQ	R499	SC(X)R-LCU (R) Cost Estimating and Analysis Support to SEA 05C TS9, E1-7,E9-10,E17-18,E22, E24, PM1-6,PM9,EM1-7, TS1, TS4-5, TS8, TS9,and TL12.(FY17 RDTE) (RDT&E)		LH	\$85,000.00
7000HR	R499	Ship-to-Shore Connector (SSC) DD&C E1-2,E4-7,E9-17,E19-E20, PM1-9, EM1-3,EM5, TL1-2. (FY16 SCN) (SCN)		LH	\$343,000.00
7000HS	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3,PS2 (FY15 OPN) (OPN)		LH	\$164,572.00
7000HT	R499	Engineering support for USNS Puller (ESB3)PS1 and PS2. (FY16 NDSF) (NDSF)		LH	\$44,000.00
7000HU	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3,PS2 (FY15 OPN) (OPN)		LH	\$274,175.00
7000HV	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. OCF (O&MN,N) DWAM62955 (O&MN,N)		LH	\$75,000.00
7000HW	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 OCF (O&MN,N) N5005417RCB0002 (O&MN,N)		LH \$1,	045,000.00
7000HX	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 OCF (FY16 RDTE) 11004866 (RDT&E)		LH	\$60,257.00
7000HY	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 OCF (O&MN,N) RP000517RXS0044 (O&MN,N)		LH	\$110,725.00
7000JA	R499	AGOR Engineering and Program Management Support. E10, PM1, PM2, PM6, PM7, PM9, EM2, EM4, TS5 OCF (O&MN,N) OMAO-PAD-00002 (O&MN,N)		LH	\$275,000.00
7000JB	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5. (O&MN,N) (O&MN,N)		LH	\$1,457,650.00
7000JC	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (O&MN,N) (O&MN,N)		LH	\$200,000.00
7000JD	R499	SEA 05Z Program Support. E2,EM4, PM1 (O&MN,N) U.S.C. 2410(a) Invoked (O&MN,N)		LH	\$185,000.00
7000JE	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$350,000.00
7000JF	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$5,000.00
7000JG	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$688,000.00
7000JH	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)		LH	\$59,400.00
7000JJ	R499	SEA 05C Cost Support for PEO IWS 1.0 Aegis Modernization, Task TS9 (O&MN,N) (O&MN,N)		LH	\$75,000.00
7000JK	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5,EM4,E2 (O&MN,N) (O&MN,N)		LH	\$2,491,447.00
7000JL	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) U.S.C. 2410(a) Invoked (O&MN,N)		LH	\$80,600.00

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7000JM	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, EM4, EM6 (0&MN, N) (0&MN, N)	LH	I	\$10	9,473.00
7000JN	R499	SEA 05Z Program Support. E2,E9,E13,PM1,PM2,PM4,PM5,EM4,EM6 (O&MN,N) (O&MN,N)	LH	ı	\$10	9,473.00
7000JP	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (O&MN,N) (O&MN,N)	LE	ı	\$23	0,000.00
7000JQ	R499	Ship Design (SDM) and Systems Intergration Manager (SIM) Manual Update EM3 $(\text{O&MN,N})$ $(\text{O&MN,N})$	LH	I	\$31	,000.00
7000JR	R499	LHA 8 Cost Estimating and Analysis Support to SEA 05C TS9 (FY17 RDTE) (RDT&E)	LH	I	\$45	,500.00
7000JS	R499	SEA 05T Marine Engineering. Provide Technical and Programmatic Support(SBIR) PM1-2, EM3-4, TL1-2 (FY17 RDTE) (RDT&E)	LH	I	\$57	8,000.00
7000JT	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&M,N) (O&MN,N)	LH	I		\$50,000.00
7000ЈU	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(O&MN,N) (O&MN,N)	LH	I	\$48,	,466.00
7000JV	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)	LH	I.		\$325,000.00
7000JW	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O&MN}, \text{N})$ $(\text{O&MN}, \text{N})$	LF	I	\$2	22,034.56
7000JX	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$	LF	I	\$1	12,162.55
7000JY	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$	LF	I	\$5	6,775.00
7000JZ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$	LF	I	50	,000.00
7000KA	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$	LF	I	\$3	88,675.00
7000KB	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN},\text{N})$ $(\text{O\&MN},\text{N})$	LF	I	\$2	29,350.00
7000KC	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN},\text{N})$ $(\text{O\&MN},\text{N})$	LE	I	\$1	0,247.07
7000KD	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (OPN) (OPN)	LH		\$2	25,713.82
7000KE	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (OPN) (OPN)	LH	I	\$1	5,042.33
7000KF	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(O&MN,N) (O&MN,N)	LH	I	\$4	10,000.00
7000KG	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(O&MN,N) (O&MN,N)	LH	I	\$4	15,000.00
7000KH	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4.(O&MN,N) (O&MN,N)	LF	I	\$8	30,000.00
7000KJ	R499	SEA 05T FRR-DP Program and Financial Management PM1,PM2,EM4 (FY 17 RDTE) (RDT&E)	LF	I	\$5	50,000.00
7000KK	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (FY 17 RDTE) (RDT&E)	LF	I	\$2	204,000.00
7000KL	R499	SEA 05T FRR-DP Program and Financial Management PM1, PM2, EM4 (FY18 RDTE) (RDT&E)	LH		\$8	30,000.00
7000KM	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (FY 18 RDTE) (RDT&E)	LH		\$8	377,000.00
7000KN	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4,TS5 (FY18 RDTE) (RDT&E)	LF	I	\$1	10,500.00
7000KP	R499	Systems Engineering Team Support E4, TS5 (FY18 RDT&E) (RDT&E)	LH	I.		\$125,000.00
7000KQ	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY18 RDTE) (RDT&E)	LH	I	\$91,	,000.00

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7000KR	R499	SC(X)R-LCU (R) Cost Estimating and Analysis Support to SEA 05C TS9,E1-7,E9-10,E17-18,E22, E24, PM1-6,PM9,EM1-7, TS1, TS4-5, TS8, TS9,and TL12.(FY18 RDTE) (RDT&E)		LH	\$124,000.00
7000KS	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY 18 RDTE) (RDT&E)		LH	\$134,650.00
7000KT	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY 17 RDTE) (RDT&E)		LH	\$524,000.00
7000KU	R499	(PMS 505) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY 17 OPN) (OPN)		LH	\$325,000.00
7000KV	R499	DDG 51 SEA 05 Cost Support for PEOs TS9 (FY13 SCN) (SCN)		LH	\$220,000.00
7000KW	R499	DDG 123 Combat System Requirement Definition and System Technology Assessment. Provide Engineering Support PM2 and E4(FY16 SCN) (SCN)		LH	\$1,863,226.00
7000KX	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (OCF O&MN,N) N0006018RC00112 (O&MN,N)		LH	\$75,000.00
7000KY	R499	SEA 05T Technology Group SBIR/STTR Training Development, Outreach Capability and Program and Financial Management PM1-2, EM3-4, TL1-2 (FY17 RDTE) (RDT&E)		LH	\$300,000.00
7000KZ	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(FY18 RDTE) (RDT&E)		LH	\$500,000.00
7000LB	R499	SEA 05 ACIO Program Management Support. EM4 and PM1(FY18 RDTE) (RDT&E)		LH	\$108,000.00
7000LC	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis. TS9 (FY15 SCN) (SCN)		LH	\$23,500.00
7000LD	R499	Ship-to-Shore Connector (SSC)Cost Estimating and Analysis. TS( (FY18 SCN) (SCN)		LH	\$50,000.00
7000LE	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)		LH	\$650,000.00
7000LF	R499	SEA 05T Technology Group Cross Platform Systems Development(CPSD) Program and Financial Management PM1, PM2, EM3, EM4, TL1,TL2 (FY17 RDTE) (RDT&E)		LH	\$29,000.00
7000LG	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)		LH	\$11,500.00
7000LH	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)		LH	\$306,000.00
7000LJ	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)		LH	\$51,000.00
7000LK	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)		LH	\$76,000.00
7000LM	1 R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)		LH	\$55,000.00
7000LN	R499	SEA 05T Technology Group Cross Platform Systems Development(CPSD) Program and Financial Management PM1, PM2, EM3, EM4, TL1, TL2 (FY18 RDTE) (O&MN,N)		LH	\$210,000.00
7000LP	R499	SEA 05T Technology Group SIR/STTR Training Development, Outreach Capability and Program and Financial Management PM1, PM2, EM4, TL1, TL2 Development (CPSD) Program and Financial Management PM1, PM2, EM3, EM4, TL1, TL2 (FY18 RDTE) (RDT&E)		LH	\$1,800,000.00
7000LQ	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY18 RDTE) (RDT&E)		LH	\$400,000.00
7000LR	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (O&MN,N) (O&MN,N)		LH	\$233,600.00
7000LS	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN,N) (O&MN,N)		LH	\$118,401.00
7000LT	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN,N) (O&MN,N)		LH	\$131,948.00
7000LU	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)		LH	\$55,000.00
7000LV	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O&MN},\text{N})$ $(\text{O&MN},\text{N})$		LH	\$20,000.00
7000LW	1 R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis(FMS ADMIN) (FMS Case #XX-X-XXX)		LH	\$100,000.00
7000LX	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)		LH	\$239,025.00
7000LY	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N)		LH	\$15,975.00

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7000LZ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)		LH		\$126,000.00
7000MA	R499	SC(X)R-LCU (R) Cost Estimating and Analysis Support to SEA 05C TS9,E1-7,E9-10,E17-18,E22, E24, PM1-6,PM9,EM1-7, TS1, TS4-5, TS8, TS9 and TL12 (FY17 RDTE) (RDT&E)		LH		\$104,000.00
7000MB	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4 (O&MN,N) (O&MN,N)		LH		\$260,000.00
7000MC	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)		LH		\$45,000.00
7000MD	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)		LH		\$89,096.00
7000ME	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)		LH		\$182,203.62
7000MF	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$66,750.00
7000MG	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$12,863.00
7000MH	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$20,925.00
7000MJ		Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $I,N)\ (\text{O\&MN},N)$		LH		\$38,850.00
7000MK	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$21,975.00
7000ML	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$14,175.00
7000MM	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$20,150.00
7000MN	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 $(\text{O\&MN}, \text{N})$ $(\text{O\&MN}, \text{N})$		LH		\$18,500.00
7000MP	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and		LH		\$80,000.00
7000MQ	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY19 RDTE) (RDT&E)		LH		\$25,000.00
7000MR	R499	SEA 05 Cost Support PEO IWS 10.0 TS9 (FY19 RDTE) (RDT&E)		LH		\$250,000.00
7000MS	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (FY19 RDTE) (RDT&E)		LH		\$179,000.00
7000MT	R499	SEA 05T Technical and Programmatic Support (FFR&DP)E2,E6,E9,E10,E12,E13,E14,E19, E20,PM1,PM4,PM6,PM7,EM1, EM4,EM5 (FY19 RDTE) (RDT&E)		LH		\$413,000.00
7000MU	R499	Provide SEA 05T Technical and Programmatic Support (FFR&DP) E2,E6,E9,E10,E12,E13,E14,E19,E20,PM1,PM4,PM6,PM7,EM1,EM4,EM5 (RDT&E)		LH		\$132,000.00
7000MV	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9 (FY15 SCN) (SCN)		LH		\$21,519.00
7000MW	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9 (FY18 SCN) (SCN)		LH		\$97,000.00

For ODC Items:

For ODC	Item	ns:		
Item	PSC	Supplies/Services	Qty Unit	Est. Cost
9000		ODCs in support of CLIN 7000		\$7,084,987.88
9000AA	R499	Additional Year - Ceiling (Fund Type - TBD)	1.0 LO	\$3,435,442.52
9000AB	R499	Other Direct Costs in Support of SLIN 7000AB (O&MN,N) (O&MN,N)	1.0 LO	\$19,186.00
9000AC	R499	Other Direct Costs in Support of SLIN 7000AC (O&MN,N) (Fund Type - TBD)	1.0 LO	\$2,400.00
9000AD	R499	Other Direct Costs in Support of SLIN 7000AD (O&MN,N) (O&MN,N)	1.0 LO	\$7,500.00
9000AL	R499	Other Direct Costs in Support of SLIN 7000AL (O&MN,N) (O&MN,N)	1.0 LO	\$118,798.00

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Item	PSC	Supplies/Services	O±v.	IIni+	Est. Cost
			_		
9000AM	R499	Other Direct Costs in Support of SLIN 7000AM(O&MN,N) (O&MN,N)	1.0	LO	\$12,500.00
9000AS	R499	Other Direct Costs in Support of SLIN 7000AS (FY16 RDTE) (RDT&E)	1.0	LO	\$3,000.00
9000AV	R499	Other Direct Costs in Support of SLIN 7000AV (FY16 RDTE) (RDT&E)	1.0	LO	\$6,000.00
9000AW	R499	Other Direct Costs in Support of SLIN 7000AW (FY16 RDTE) (RDT&E)	1.0	LO	\$4,000.00
9000AX	R499	Other Direct Costs in Support of SLIN 7000AX (FY16 RDTE) (RDT&E)	1.0	LO	\$6,000.00
9000AZ	R499	Other Direct Costs in Support of SLIN 7000AZ (FY16 RDTE) (RDT&E)	1.0	LO	\$3,000.00
9000BA	R499	Other Direct Costs in Support of LSC Cost Estimating (FY16 RDTE) (RDT&E)	1.0	LO	\$3,000.00
9000BD	R499	Other Direct Costs in Support of SLIN 7000BD (FY16 RDTE) (RDT&E)	1.0	LO	\$1,000.00
9000BJ	R499	Other Direct Costs in Support of SLIN 7000BJ (FY15 SCN) (SCN)	1.0	LO	\$34,000.00
9000BM	R499	ODC in support of CLIN 7000 (OPN)	1.0	LO	\$4,000.00
9000BN	R499	ODC in support of CLIN 7000 (O&MN,N)	1.0	LO	\$5,000.00
		Other Direct Costs in Support of SLIN 7000BQ (O&MN,N)	1.0	T <sub>1</sub> O	\$5,000.00
		(O&MN, N)			, , , , , , , , , , , , , , , , , , , ,
9000BU	R499	Other Direct Costs in Support of SLIN 7000BL (FY16 NDSF) (NDSF)	1.0	LO	\$200,000.00
9000BV	R499	Other Direct Costs in Support of SLIN 7000BV (O&MN,N) (O&MN,N)	1.0	LO	\$2,000.00
9000BX	R499	Other Direct Costs in Support of SLIN 7000BX (O&MN,N) (O&MN,N)	1.0	LO	\$5,593.00
9000CA	R499	Other Direct Costs in Support of SLIN 7000CA (O&MN,N) (O&MN,N)	1.0	LO	\$5,000.00
9000CE	R499	Other Direct Costs in Support of SLIN 7000CE (O&MN,N) (O&MN,N)	1.0	LO	\$14,200.00
9000CF	R499	Other Direct Costs in Support of SLIN 7000CF (FY16 RDTE) (RDT&E)	1.0	LO	\$1,000.00
9000CH	R499	ODCs in Support of SLIN 7000CH (FY16 RDTE) (RDT&E)	1.0	LO	\$20,000.00
9000CJ	R499	Other Direct Costs in Support of SLIN 7000CJ (FY16 RDTE) (RDT&E)	1.0	LO	\$8,000.00
9000CK	R499	Other Direct Costs in Support of SLIN 7000CK (FY16 RDTE) (RDT&E)	1.0	LO	\$10,000.00
9000CM	R499	Other Direct Costs in Support of SLIN 7000CM (FY16 RDTE) (RDT&E)	1.0	LO	\$3,000.00
9000CS	R499	Other Direct Costs in Support of SLIN 7000CS ( FY16 RDTE ) (RDT&E)	1.0	LO	\$585,000.00
9000CT	R499	ODC in support of CLIN 7000 (RDT&E)	1.0	LO	\$8,000.00
9000CY	R499	Other Direct Costs in Support of SLIN 7000CY (FY14 SCN) (SCN)	1.0	LO	\$3,750.00
9000CZ	R499	Other Direct Costs in Support of SLIN 7000CZ (FY14 SCN) (SCN)	1.0	LO	\$3,750.00
9000DD	R499	Other Direct Costs in Support of SLIN 7000DD (FY16 NDSF) (NDSF)	1.0	LO	\$334,000.00
9000DE	R499	Other Direct Costs in Support of SLIN 7000DE (FY16 RDTE OCF) N6887616RCRC008 (RDT&E)	1.0	LO	\$15,000.00
9000DJ	R499	Other Direct Costs in Support of SLIN 7000DJ (FY14 OPN) (OPN)	1.0	LO	\$22,654.00
9000DK	R499	Other Direct Costs in Support of SLIN 7000DK (WCF) (WCF)	1.0	LO	\$23,000.00
		SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)	1.0	LO	\$13,000.00

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Item	PSC	Supplies/Services	Qtv	Unit	Est. Cost
9000DM	R499	Other Direct Costs in Support of SLIN 7000DM (O&MN,N)	1.0	T.O	\$1,200.00
JOUODI	1(4))	(Ogmn, N)	1.0	ПО	V1,200.00
9000DR	R499	Other Direct Costs in Support of SLIN 7000DR (FY16 O&MN,N) (O&MN,N)	1.0	LO	\$2,250.00
9000DU	R499	Other Direct Costs in Support of SLIN 7000DU (FY16 RDTE) (RDT&E)	1.0	LO	\$2,000.00
9000DY	R499	Other Direct Costs in Support of SLIN 7000DY( FY16 RDTE) (RDT&E)	1.0	LO	\$7,500.00
9000DZ	R499	Other Direct Costs in Support of SLIN 7000DZ (FY15 RDTE) (RDT&E)	1.0	LO	\$5,000.00
9000EC	R499	Other Direct Costs in Support of SLIN 7000EC (FY15 SCN) (SCN)	1.0	LO	\$12,125.00
9000ED	R499	Other Direct Costs in Support of SLIN 7000ED (FY12 SCN) (SCN)	1.0	LO	\$2,400.00
9000EF	R499	Other Direct Costs in Support of SLIN 7000EF (FY13 SCN) (SCN)	1.0	LO	\$38,400.00
9000EH	R499	Other Direct Costs in Support of SLIN 7000EH (FY12 SCN) (SCN)	1.0	LO	\$50,000.00
9000EL	R499	Other Direct Costs in Support of SLIN 7000EL (OPN)	1.0	LO	\$35,000.00
9000EM	R499	Other Direct Costs in Support of SLIN 7000EM (FY16 O&MN, N	1.0	LO	\$53,450.00
		OCF) N3131A16WR00112 (O&MN,N) Other Direct Costs in Support of SLIN 7000EN (FY16 O&MN,N	1.0	LO	\$7,200.00
		OCF) (O&MN,N)			, , , _ , , , , , , , , , , , , , , , ,
9000EP	R499	Other Direct Costs in Support of SLIN 7000EP( FY15 OPN OCF) N6230615RC00627 (OPN)	1.0	LO	\$40,000.00
9000EQ	R499	Other Direct Costs in Support of SLIN 7000EQ (FY16 O&MN,N OCF) N3241616RC0011P (O&MN,N)	1.0	LO	\$6,000.00
9000ES	R499	Other Direct Costs in Support of SLIN 7000ES (FY16 O&MN,N OCF) HSCG2316XAFR620 (O&MN,N)	1.0	LO	\$81,790.00
9000ET	R499	Other Direct Costs in Support of SLIN 7000ET (FY16 SCN) (SCN)	1.0	LO	\$27,708.00
9000EU	R499	Other Direct Costs in Support of SLIN 7000EU (FMS ADMIN) (FMS Case #XX-X-XXX)	1.0	LO	\$6,000.00
9000EV	R499	Other Direct Costs in Support of SLIN 7000EV(FMS ADMIN) (FMS Case #XX-X-XXX)	1.0	LO	\$2,000.00
9000EW	R499	Other Direct Costs in Support of SLIN 7000EW ( WCF OCF NUWC) (WCF)	1.0	LO	\$12,000.00
9000EX	R499	Other Direct Costs in Support of SLIN 7000EX (O&MN,N) (O&MN,N)	1.0	LO	\$1,000.00
9000EZ	R499	ODCs in Support of SLIN 7000EZ (O&MN,N) (O&MN,N)	1.0	LO	\$5,000.00
9000FB	R499	ODCs in Support of SLIN 7000FB(O&MN,N) (O&MN,N)	1.0	LO	\$9,000.00
9000FD	R499	ODCs in Support of SLIN 7000FD (O&MN,N) (O&MN,N)	1.0	LO	\$4,000.00
9000FF	R499	ODCs in Support of SLIN 7000FF(O&MN,N) (O&MN,N)	1.0	LO	\$64,846.00
9000FG	R499	ODCs in Support of SLIN 7000FG (FY16 RDTE) (RDT&E)	1.0	LO	\$6,500.00
		ODCs in Support of SLIN 7000FJ (RDTE)) (RDT&E)	1.0		\$20,000.00
		Other Direct Costs in Support of SLIN 7000FM (FY17 RDTE)	1.0		\$6,000.00
		(RDT&E)			
		ODCs in Support of SLIN 7000FP (FY16 RDTE) (RDT&E)	1.0		\$15,000.00
		Other Direct Costs in Support of SLIN 7000FQ (FY17 SCN) (SCN)	1.0		\$1,000.00
		Other Direct Costs in Support of SLIN 7000FR (FY 16 SCN) (SCN)	1.0		\$15,000.00
9000FS	R499	Other Direct Costs in Support of SLIN 7000FS (FY 17 SCN) (SCN)	1.0	LO	\$11,000.00
9000FT	R499	ODCs in Support of SLIN 7000FT (FY15 SCN) (SCN)	1.0	LO	\$4,000.00
9000FX	R499	ODCs in Support of SLIN 7000FX (FY17 SCN) (SCN)	1.0	LO	\$1,100.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
9000GB	R499	Other Direct Costs in Support of SLIN 7000GB (FMS ADMIN) (FMS Case #XX-X-XXX)	1.0	LO	\$10,000.00
9000GC	R499	Other Direct Costs in Support of SLIN 7000GC (FY17 RDTE) (RDT&E)	1.0	LO	\$35,000.00
9000GE	R499	Other Direct Costs in Support of SLIN 7000GE (FY17 RDTE) (O&MN,N)	1.0	LO	\$2,000.00
9000GG	R499	Other Direct Costs in Support of SLIN 7000GG (O&MN,N) (O&MN,N)	1.0	LO	\$10,000.00
9000GJ	R499	Other Direct Costs in Support of SLIN 7000GJ (O&MN,N) $(\text{O&MN},\text{N})$	1.0	LO	\$1,000.00
9000GL	R499	ODC in support of CLIN 7000GL (RDT&E)	1.0	LO	\$34,000.00
9000GM	R499	Other Direct Costs in Support of SLIN 7000GM (FY17 RDTE) (RDT&E)	1.0	LO	\$1,000.00
9000GR	R499	Other Direct Costs in Support of SLIN 7000GS (FY17 RDTE) (RDT&E)	1.0	LO	\$50,000.00
9000GS	R499	Other Direct Costs in Support of SLIN 7000GS (FY17 RDTE) (RDT&E)	1.0	LO	\$14,500.00
9000GT	R499	Other Direct Costs in Support of SLIN 7000GT (FY17 RDTE) (RDT&E)	1.0	LO	\$200,000.00
9000GV	R499	Other Direct Costs in Support of SLIN 7000GV (FY13 SCN) (SCN)	1.0	LO	\$5,000.00
9000GW	R499	Other Direct Costs in Support of SLIN 7000GW (FY17 OPN) (OPN)	1.0	LO	\$35,000.00
9000GZ	R499	Other Direct Costs in Support of SLIN 7000GZ (O&MN,N) (O&MN,N)	1.0	LO	\$1,000.00
9000HD	R499	Other Direct Costs in Support of SLIN 7000HD (FY17 RDTE) (RDT&E)	1.0	LO	\$7,500.00
9000HE	R499	Other Direct Costs in Support of SLIN 7000HE (O&MN,N) (O&MN,N)	1.0	LO	\$55,000.00
9000HF	R499	Other Direct Costs in Support of SLIN 7000HF (O&MN,N) (O&MN,N)	1.0	LO	\$2,000.00
9000HJ	R499	Other Direct Costs in Support of SLIN 7000HJ (O&MN,N) (O&MN,N)	1.0	LO	\$6,500.00
9000HK	R499	Other Direct Costs in Support of SLIN 7000HK(FY16 RDTE) (RDT&E)	1.0	LO	\$350,000.00
9000HL	R499	Other Direct Costs in Support of SLIN 7000HL (FY16 RDTE) (RDT&E)	1.0	LO	\$50,500.00
9000ни	R499	Other Direct Costs in Support of SLIN 7000HU(OCF FY15 OPN) (OPN)	1.0	LO	\$33,564.00
9000HV	R499	Other Direct Costs in Support of SLIN 7000HV OCF (O&MN,N) DWAM62955 (O&MN,N)	1.0	LO	\$15,000.00
9000HW	R499	Other Direct Costs in Support of SLIN 7000HW OCF (O&MN,N) N5005417RCB0002 (O&MN,N)	1.0	LO	\$50,000.00
9000HX	R499	Other Direct Costs in Support of SLIN 7000HX OCF (FY16 RDTE) 11004866 (RDT&E)	1.0	LO	\$3,120.00
9000HY	R499	Other Direct Costs in Support of SLIN 7000HY OCF (O&MN,N) RP000517RXS0044 (O&MN,N)	1.0	LO	\$15,000.00
9000HZ	R499	Other Direct Costs in Support of SLIN 7000HZ (FY15 OPN) N6230615RC00627 (OPN)	1.0	LO	\$25,368.00
9000JA	R499	Other Direct Costs in Support of SLIN 7000JA (OCF OMN) OMAO-PAD-00002 (O&MN,N)	1.0	LO	\$1,500.00
9000JB	R499	Other Direct Costs in Support of SLIN 7000JB (O&MN,N) (O&MN,N)	1.0	LO	\$12,000.00
9000JE	R499	Other Direct Costs in Support of SLIN 7000JE (O&MN,N) (O&MN,N)	1.0	LO	\$5,000.00
9000JG	R499	Other Direct Costs in Support of SLIN 7000JG (O&MN,N) $(\text{O&MN},\text{N})$	1.0	LO	\$10,000.00

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Item	PSC	Supplies/Service	5						Qty	Unit	Est. Cost
9000JK	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000JK	(O&MN,N)	1.0	LO	\$8,553.00
9000JP	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000JP	(O&MN,N)	1.0	LO	\$70,000.00
9000JV	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000JV	(O&MN,N)	1.0	LO	\$92,640.36
9000KF	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000KF	(FY18 O&MN,N)	1.0	LO	\$10,000.00
9000KG	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000KG	(FY18 O&MN,N)	1.0	LO	\$5,000.00
9000KK	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000KK	(FY17 RDTE)	1.0	LO	\$10,000.00
9000KM	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000KM	(FY18 RDTE)	1.0	LO	\$5,000.00
9000KN	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000KN	(FY18 RDTE)	1.0	LO	\$20,000.00
9000KP	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000KP	(FY18 RDTE)	1.0	LO	\$5,000.00
9000KS	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000KS	(FY18 RDTE)	1.0	LO	\$6,500.00
9000KU	R499	Other Direct Cos	s in	Support	of	SLIN	7000KU	(FY17 OPN)	1.0	LO	\$3,000.00
9000KW	R499	Other Direct Cos	s in	Support	of	SLIN	7000KW(	(FY16 SCN)	1.0	LO	\$115,000.00
9000KZ	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000KZ	(FY18 RDTE)	1.0	LO	\$5,000.00
9000LE	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000LE	(O&MN,N)	1.0	LO	\$6,000.00
9000LF	R499	ODC in support o	E CLI	N 7000 (	RDT	&E)			1.0	LO	\$1,000.00
9000LN	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000LN	(FY18 RDTE)	1.0	LO	\$15,000.00
9000LP	R499	Other Direct Cos (RDT&E)	s in	Support	of	SLIN	7000LP(	(FY18 RDTE)	1.0	LO	\$60,000.00
9000LT	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000LT	(FY18 O&M,N)	1.0	LO	\$500.00
9000LX	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000LX	(O&MN,N)	1.0	LO	\$90,000.00
9000LZ	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000LZ	(O&MN,N)	1.0	LO	\$10,000.00
9000MB	R499	Other Direct Cos (O&MN,N)	s in	Support	of	SLIN	7000MB	(O&MN,N)	1.0	LO	\$4,000.00

Note A: Base Period Items- Base Period SLINs (1001AA through 3001AA), the base period through 27 May 2009 will commence on the date of Task Order award. The 1000 and 4000 series CLINs are Level of Effort requirements.

Note B: Option Items - Option item to which the option clause in Section I-2 applies and which is to be supplied only if and to the extent said option is exercised.

 $Note \ C: In \ accordance \ with \ Section \ M, \ the \ Government \ reserves \ the \ right \ to \ award \ up \ to \ three \ Task \ Orders.$ 

Award Term Item to which the AWARD TERM clause in SECTION H applies and which is to be supplied only if and to the extent said Item is earned, retained and awarded in accordance with the AWARD TERM PLAN provided in SECTION H. Notwithstanding the word "Option" which appears in the Section B CLIN description or elsewhere in this Task Order, for Award Term Items, Award Terms are not "Option" Items.

Note D: ODC- Estimated ODC costs (based on past performance) are \$5 per man-hour. Design Site costs must be reflected as \$1M per year for each 250K labor hours. This estimate must be included in Section B of the offer for CLIN 3001, Option CLIN 6002, and Award Term CLINs 6003, 6004, and 6005. Other ODC amounts proposed by an Offeror shall be included in said CLINs and the narrative rationale provided by the Offeror. These are non-fee bearing CLINs and shall be priced as cost only.

Note E: Task Order requirements that apply to the divison of work between prime contractors, subcontractors and small businesses are as follows:

- Large busines prime contractors shall perform a minimum of 40% of the total work effort.

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- Small business prime contractors shall perform a minimum of 30% of the total work effort.
- Large business prime contractors shall subcontract at least 25% of the work effort to small businesses.
- No single subcontractor shall perform more than the prime contractor.
- A prime contractor may be a subcontractor to another prime contractor.

#### CONTRACT SUMMARY FOR PAYMENT OFFICE (COST TYPE)(NAVSEA) (FEB 1997)

This entire contract is cost type.

#### PAYMENTS OF FEE(S) (LEVEL OF EFFORT) (NAVSEA) (MAY 1993)

- (a) For purposes of this delivery order, "fee" means "fixed fee" in cost-plus-fixed-fee level of effort type delivery orders.
- (b) The Government shall make payments to the Contractor, subject to and in accordance with the clause in this contract entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE", (FAR 52.216-10), as applicable. Such payments shall be equal to \_\_\_\_\_\_\_percent () of the allowable cost of each invoice submitted by and payable to the Contractor pursuant to the clause of this contract entitled "ALLOWABLE COST AND PAYMENT" (FAR 52.216-7), subject to the withholding terms and conditions of the "FIXED FEE" or "INCENTIVE FEE" clause, as applicable (percentage of fee is based on fee dollars divided by estimated cost dollars, including facilities capital cost of money). Note: CLINs 0003, 0006 and 0009 are "Cost Only". Total fee(s) paid to the Contractor shall not exceed the fee amount(s) set forth in this contract.
- (c) The fee(s) specified in SECTION B, and payment thereof, is subject to adjustment pursuant to paragraph (g) of the special contract requirement entitled "LEVEL OF EFFORT." If the fee(s) is reduced and the reduced fee(s) is less than the sum of all fee payments made to the Contractor under this contract, the Contractor shall repay the excess amount to the Government. If the final adjusted fee exceeds all fee payments made to the contractor under this contract, the Contractor shall be paid the additional amount, subject to the availability of funds. In no event shall the Government be required to pay the Contractor any amount in excess of the funds obligated under this contract at the time of the discontinuance of work.
- (d) Fee(s) withheld pursuant to the terms and conditions of this contract shall not be paid until the contract has been modified to reduce the fee(s) in accordance with the "LEVEL OF EFFORT" special contract requirement, or until the Procuring Contracting Officer has advised the paying office in writing that no fee adjustment is required.

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#### SECTION C DESCRIPTIONS AND SPECIFICATIONS

#### 1. FUNDING

The funding indicated below shall be utilized for the particular type of work described herein.

RDT&E: Technology development, prototype development requirements definition, preliminary design, contract design, test and evaluation support, concept development, feasibility studies, design tools, design reviews, product improvement (outside performance envelope).

SCN: Acquisition support of new construction surface ships to include detail design support, ship acceptance tests and trials, final contract trials, initial outfitting and ship post delivery support, shipboard installation support (new construction ships), engineering & integration supporting new construction ships, develop Navy training plan for new construction ships, program management support of new construction ships, logistic support of new construction ships, production engineering for new construction ships, quality assurance (new construction ships). Engineering support of Advanced Procurement, construction and long lead material procurement.

O&MN: Maintenance, training, operational support, reliability & maintainability analysis, general management support, general office support, staffing analyses, support of web sites, engineering & integration supporting active fleet ships, business and financial manager support, logistic support of active fleet ships, engineering support of active fleet ships.

NDSF: All of the above when in support of ship programs funded by NDSF.

FMS: All of the above when in support of ship programs funded by FMS programs.

OPN: Modernization support, shipboard installation support for OPN funded systems, shipalt support, program management support of OPN funded systems, logistics support of OPN funded systems, engineering support of OPN funded systems, production engineering for OPN funded systems, product improvement of OPN funded systems (within performance envelope), quality assurance (OPN funded systems), equipment procurement support.

#### 2. BACKGROUND

This task order is for the procurement of professional services support for the Naval Systems Engineering Directorate (SEA 05). Services required include naval architecture, engineering, ship design project management, ship design team and site support, technical library management, in service technical support and related engineering disciplines.

These services will include advanced ship and vehicle concept development; future fleet force concept development; design tools, ship design standards, processes and criteria development; comparative naval architecture; conversion and new construction concepts, naval architecture, marine engineering, preliminary design; contract design; systems engineering; preparation of specifications and technical data packages, design related acquisition program or project support, detailed design engineering and review; production engineering support, and other lifecycle engineering for surface ships and other surface vehicles, aircraft carriers, and submarines and other submersibles.

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The engineering and technical work applies to research and development, new designs, construction, conversions, modernizations, and fleet support of all surface ships, submarines, and aircraft carriers under U.S. Navy Cognizance, including work performed under Navy cognizance for other U.S. government agencies or foreign countries. The work also applies to special studies and program in the naval engineering field as well as development and update of technical directives, standards, specification, design data sheets, instructions and drawings.

#### 3. SCOPE OF WORK

The scope of work is described below. First it is synopsized. Then the scope of work is described as general requirements in the context of phases of, and/or activities that, constitute ship design, acquisition and support. Finally, the scope of work is organized into task areas with specific tasks that the contractor will conduct to support those phases and/or activities.

# A. SYNOPSIS OF REQUIREMENTS

Provide engineering support to SEA 05 throughout the various phases of ship design, acquisition and support from concept studies to preliminary design, contract design, detailed design and construction, and life cycle support including, but not limited to, the following services:

In general, provide systems engineering analysis, reviews, studies, documentation and recommendations related to the development, interoperability, integration, operations, maintenance, sustainment, and disposal of the ship, including its systems, subsystems and equipment.

Review engineering and technical documentation, to determine compliance with engineering standards, and technical accuracy and adequacy in relation to functional, operational, and technical requirements.

Provide engineering and technical support to assist in resolution of emergent technical problems.

Provide Integrated Data Environment support and Computer Aided Design/Computer Aided Engineering support.

Conduct reliability, maintainability, availability, and environmental safety and occupational health analyses and reviews.

Provide subject matter technical expertise for meetings, presentations, inquiries and action item resolution.

Assist in the insertion of science and technology, including Small Business Innovative Research (SBIR), Manufacturing Technology (MANTECH) and Future Naval Capabilities (FNC) processes. Provide information and recommendations in response to Congressional, DOD, other Government agency, media, industry, or individual inquiries, and audits.

Undertake studies deemed necessary by SEA 05 in support of emerging requirements or to address ship technical issues. These services shall be provided to NAVSEA during all phases of a ship acquisition process. The contractor shall provide a labor mix appropriate for each phase of the ship acquisition process. The contractor shall provide professional services in project management, engineering, technical library management, and related disciplines.

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Provide support for international programs and international data exchanges.

Prepare documentation to support and trace design decisions and evolution. Document design requirements, assumptions, and results.

B. GENERAL REQUIREMENTS (in the context of phases of, and/or activities that, constitute ship design, acquisition and support)

The performance of work shall include, but is not limited to:

Concept Studies - Concept studies are generally "clean sheet of paper" development of new ship configurations, new ship types, evolutions of existing and/or previous ship classes. These studies are done in support of naval mission capabilities identification, new technology planning and assessment, analysis of alternative (AoA) studies, strategic planning, wargaming, and other efforts in support of the Navy After Next. These studies can also include formulation and analysis of force level concepts of ship, unmanned vehicles and other force components and support to the Center for Innovative Ship Design.

Feasibility Studies - Feasibility studies provide an impact analysis of the ship and its major systems on Navy ships with a minimum amount of data/information. Contact with Type Commanders, ship personnel, Commander Fleet Forces Command (CFFC), the Naval Warfare Development Center (NWDC), and the Naval Surface Warfare Center (NSWC), etc., may be necessary to define desired ship capabilities and features. Efforts will be required to gather interface data, background data and information, to analyze the impact of the desired capabilities, characteristics, and features. Feasibility studies are used for both new ship designs and backfit or conversion of existing ships. Feasibility study investigations associated ship systems are more than just the definition and identification of the impact on the systems themselves. The investigations must be comprehensive and identify changes that may affect ship size, signatures, major equipment selection, arrangements, location, and size of main equipment rooms (e.g. identify the need for additional machinery space, etc.), desired ship/system performance, or to determine services safety, manning and security requirements.

Preliminary Design or equivalent - Preliminary design activity comprises the development required to provide an engineering description of the ship and each major system in terms of very rough system diagrams, layout drawings and performance characteristics. Tradeoff studies are accomplished to refine subsystem definition and to provide a basis for the selection of major components. The preliminary design must achieve a complete engineering description of an integrated ship system so that the basic ship size and definition will not change during contract design. Specific baseline requirements to be used in each preliminary design task will be defined by the Task Order Manager upon initiation of the design. The following documents are typical of those that are used to define the baseline for preliminary design which may be furnished to the Contractor: Feasibility reports; Conceptual Design Reports; Requirements documents (Initial Capabilities Documents (ICD), draft Capabilities Development Documents (CDD)); Ship Characteristics; Preliminary System Performance Requirements; Interface Requirements; Safety and Security Considerations. In development of preliminary design of various ship systems, the contractor may be tasked to perform any of the following: Baseline definition; Establishment of design criteria and sources; Collection of interface data, information, and requirements; Conduct studies, analyses and investigations; Review interface documentation; Provide status of design

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developments reports; Presentation of design development; Documentation of design development; Develop or maintain Computer Aided Design models.

Contract Design or equivalent - During this phase, the results of the preliminary design must be validated and a greater level of design detail is normally developed. Contract design effort encompasses the preparation of the product model(s) and specifications required to provide an information package sufficiently detailed for negotiation of a construction contract with a ship builder. The ship and ship systems preliminary design deliverables, preliminary design reports, unresolved items and specifications and other documents establish the starting point of ship design. Shortly following the start of contract design, a baseline is established and configuration control is initiated. This control requires formal submission and approval of any changes. In development of various portions of contract design, the contractor may be tasked to perform any of the following: Define system baseline and develop criteria; Conduct special studies; Develop study sketches, calculations, notes and study drawings; Develop contract guidance drawings; Develop specification sections and inputs to various interfacing specification sections; Develop system development change reports; Develop a master equipment list for machinery systems; Develop configuration change request as necessary; Review interfacing documents and comment; Participate in and assist in circulation and review of the ship specification and adjudication of comments thereto and in preparation for and assistance during ship specification reading sessions; Develop design histories; Maintain design notebooks; Develop specific design documentation and reports; Assist in the design reviews of the preliminary design effort and resolve comments and recommendations; Develop or maintain Computer Aided Design models.

Detail Design, Construction, and Post Shakedown Availability (PSA) or equivalent - This phase supports new construction and lasts until the ship is completed. Tasks include review and approval (within specified timeframes) of various product models and/or drawings (system diagrammatic, arrangements, etc) and associated supporting documentation by the design agent (or his subcontractors). The items submitted for Headquarters review and/or approval also include but are not limited to: Shipbuilder forwarding letter; Supervisor of Shipbuilding (SOS) forwarding letter; System Description; System and equipment calculations. The following documents are used to define the baseline ship for which detail design support efforts may be required of the contractor: Detail ship specifications with all changes (Headquarters Modification Requests (HMRs), Field Modification Requests (FMRs) and modifications thereto); Contract Data Requirements List (CDRLS); Contract and Contract Guidance Drawings; Study Drawings; Military STANDARD MIL - STD-777 and applicable revision; Contract Design Change Reports, Preliminary Design Development; Reports and/or Impact Analysis report (if available); Contract design and Preliminary Design histories (if available); Contract Design and Preliminary Notebooks (if available); On site (shipyard or industrial activity) technical support for construction or PSA; ShipAlt Proposals (SAPs), ShipAlt Records (SARs), Justification of Cost Forms (JCFs) and Ship Change Documents (SCDs).

The number and type of systems involved in detail design support efforts are a function of the particular ship detail specifications.

In-Service Ship Design and Engineering - In-service surface ship design and engineering supports the fleet and handles class wide technical issues applying total ship systems engineering to maintenance, repairs and modernization. Additionally, In-service Ship Design and Engineering are primary first responders at NAVSEA to incidents that require technical guidance

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and response. Class specific technical issues addressed, include but are not limited to, SCD evaluations, TAT approval, and ICMP deferral adjudication. In-service Surface Ship Design and Engineering representatives interface with Engineering Field Representatives, Ship Maintenance Teams, Regional Maintenance Center and Naval Shipyard Chief Engineers (CHENGS) and Technical Warrant Holders (TWHs). In-service Ship Design and Engineering provides technical resolutions working across the program managers, PARMs and technical boundaries. Fleet modernization design engineering is done in support of major upgrades of existing ships and ship classes, as well as the latter flight of ships on programs that span a length of several years. These design engineering efforts are associated with the management of future (proposed and/or approved) military and technical improvements and changes. These efforts are similar to a new ship design effort in that it is an integration of a number of design disciplines aimed towards a single goal or objective. The significant difference between a modernization design effort and a new ship design effort is the existence of a baseline ship for which the requirements are defined. Also, there is documentation available (e.g., Ship Information Books (SIBs), Damage Control (DC) Books, Technical Manuals) that define the baseline ship. One of the significant tasks in a modernization design which may be required of the contractor, is the verification or definition of the currency of the baseline ship with the documentation. Modernization design integrates many military and technical improvements, many in the form of SHIPALTS and/or proposals, not only to eliminate conflicts between/among such improvements, but also to determine if baseline ship resources can adequately handle total package of improvements. The more important product of a modernization design effort are SHIPALTS and/or proposals that identify changes to new baseline resources either unknown or unplanned for the lifecycle operation of the ship.

Shipboard Installation Support - Provide support for various ship systems and shipboard equipment installations on both new construction and active fleet ships. This involves on board technical support during installation with redesign and documentation revision as appropriate. Alignment and calibration support may be involved as well as trouble-shooting and testing.

Independent Design Reviews - Participate in independent design reviews involving in-depth investigation and analysis of a system, subsystem, or equipment for the purpose of identifying problem areas, technical deficiencies, and recommended design solutions. An independent design review team is usually composed of a varied team of government employees, industry representatives, and support contractors who have sufficient expertise to conduct the analyses. Reviews will encompass examination of top level requirements and specifications, reliability, maintainability, and availability data, suitability of equipment/system for intended purpose, operational characteristics, human factors, safety, cost, size, and weight. At the conclusion of an independent design review, prepare a comprehensive report of the findings and recommendations including redesign proposals as appropriate.

Special Studies - Contractor may be tasked to perform special studies on ships, ship systems and shipboard equipment. These studies involve the solution of problems that degrade the operational performance of hull, mechanical, and electrical systems, and related equipment which go beyond the narrow scope of technical changes and product improvements. Solutions will consider improvements in shipboard operator/maintainer training, integrated logistic support documentation, spare parts support, and repair recommendations. Such non-technical improvements may be accomplished in conjunction with or as alternatives to product improvements. Solution development involves interim as well as long term (or final) fixes. The

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contractor will be required to prepare appropriate reports.

ABS Rules for Building and Classing Naval Vessels - This effort shall include the development and maintenance of the technical criteria used in determining technical acceptability as a part of classification. The contractor shall complete the development of technical criteria for applicable programs which will be in the form of ABS Rules for Building and Classing Naval Vessels (NVR) for use in the acquisition process of Naval combatant ships. The NVR is written to be applicable to any non-nuclear US Navy surface ship, with a special focus on those typically designed using combatant standards. The NVR will be used in conjunction with a collection of military-unique appendices provided by NAVSEA to cover all functional areas of a warship and address all aspects of verification, validation and certification.

Application of other American Bureau of Shipping (ABS) rules (non-NVR) and US Coast Guard (USCG) regulations to naval ship projects – This effort shall include the following: Regulatory body corporate history and issue management; Digital data management/collaborative work environment/integrated design environment; Project, logistic, and financial management; Physics based simulation, and visualization of designs; Technology management; Test and trial management; Engineering change proposal development for ships and production systems; Modernization (alteration) development; In-service ship modernization including in-service installations; Material selection and fabrication; Producibility studies; Standardization/reverse engineering; Independent design reviews; Failure modes and effects analysis; Ship systems integration; Prototype development; Ship model testing and other testing work in support of ship design; Ship certification; Design tools, standards, processes and criteria development and updates; Risk analysis; Historical ship design analysis and archiving of information and data; Comparative naval architecture and ship design.

#### C. TASK AREAS WITH SPECIFIC TASKS

ENGINEERING (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

# E1: Hull Systems Engineering

Develop ship compartmentation, external arrangements, topside arrangements, and general access design. Develop and maintain the Weight Estimate. Develop, validate, and document the hull form, control surfaces, appendages, and stack configuration. Perform speed/power calculations, maneuverability assessments, seakeeping performance predictions, and hydrodynamic load analysis. Validate that the ship meets the stability and reserve buoyancy requirements. Develop the structural design of the ship including structural arrangements, stress analysis, scantlings, and design criteria. Develop space layouts for habitability (food service, sanitary, living, recreation, leisure & community), administrative, medical/dental, laundry, and stowage and issue room spaces. Develop and list hull outfitting equipment requirements. Develop a concept acoustic design with options for a total ship system solution to mitigate flight deck, machinery, HVAC, and fluid system airborne noise.

# E2: Machinery Systems Engineering

Develop and/or oversee the design of the selected ship propulsion system(s), including the necessary calculations, studies, analyses, testing, and modeling and simulation to support the design. Develop and/or review the design and prepare drawings defining the arrangement of

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main and auxiliary machinery spaces, propulsion shafting, and combustion air intake and exhaust gas systems. Develop and/or describe the shipboard industrial facilities (workshops, etc.) to define equipment locations and space requirements. Define, develop, and document the design of the HVAC systems and refrigerating plants. Develop and/or review the design for all ship environmental systems, including the necessary calculations, studies, and analyses to support the design. Perform studies and prepare drawings for auxiliary equipment. Provide the documentation required to justify and trace detail design decisions and evolution. Perform studies and analyses, define, identify and document the design of components necessary for the ship's electrical and degaussing systems. Develop and describe the machinery control systems. Perform studies and prepare drawings to describe the ship steering and motion control systems.

Provide engineering support for construction, alteration, testing, and sea trials of deck systems and machinery systems as follows:

- a Review and monitor detail design and installation of deck systems and machinery systems. Attend status reviews at NAVSEA, at the shipbuilding yards, and onboard ships, documenting discussions, findings, and recommendations.
- b. Attend pre-trial reviews, providing reports of findings and recommendations to facilitate work-up of ship systems for trials.
- c. Participate in ship sea trials and assist in the adjudication of trial deficiencies.
- d. Attend design reviews at NAVSEA and vendor facilities, documenting discussions, findings, and recommendations.

# E3: Warfare Systems Engineering

Establish the spatial adequacy of the Combat Systems compartments, and define the special installation arrangement requirements for those compartments. Set forth in design and engineering terminology the ship Combat System design requirements necessary to meet the performance requirements in the CDD. Analyze the Radiation Hazards (RADHAZ), i.e. Hazards of Electromagnetic Radiation to Personnel, Ordnance and Fuels (HERP, HERO, HERF), and Nuclear Electromagnetic Pulse (NEMP) in order to eliminate hazards to personnel and material. Determine and record the maximum achievable safe pointing and firing zones for guns, missiles, etc. onboard ship. Perform studies evaluating different topside arrangements in terms of the impact on weapons systems and emitters. Specify settings of cut-out cams, fixed stops, and computer software settings. Establish and record blast areas (temperature and pressure; positive and negative) which result from ordnance firing. Establish and record required settings for emitters and the resulting radiation zones. Define all operational events necessary to assure continuity of the man-machine interface as reflected on the Functional Flow Diagrams for use in determining/evaluating combat systems reaction time and the practicability of combined operations. Describe the operational relationships and procedures that take into account the design philosophy utilized in space allocations and arrangements, and provide operating personnel with station manning requirements, assigned responsibilities, and operational procedures. Eliminate or minimize Electromagnetic Interference (EMI) both above and below deck. Describe the operational relationships and procedures that take into account the design philosophy utilized in space allocations and arrangements, and to provide operating personnel with station manning requirements, assigned responsibilities, and operational procedures.

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Recommend/implement the transition of legacy combat systems to modern open-standard/architecture digital systems by leveraging existing technology refresh-capable, ruggedized Commercial Off The Shelf (COTS) equipment, systems and architectures. Determine, define and record the electrical/electronic/logical interrelationships between a Core Data Network (CDN) and other ship systems. Also, determine, define and record the electrical/electronic/logical interrelationships between these sub-systems, and the ship support systems.

#### E4: C4ISR Systems Engineering

Establish a comprehensive list of all Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems, equipment, and antennas. Establish the spatial adequacy of C4ISR compartments, and define the special installation arrangement requirements of those compartments. Depict the primary operational mode for each major operational function of all C4ISR systems and their primary data flow path. Enable the determination of the optimum interface of sub-systems to achieve the desired capability. Analyze the electromagnetic compatibility (EMC) of equipment/systems resulting from design characteristics or physical arrangements/locations in order to eliminate or minimize Electromagnetic Interference (EMI) both above and below deck. Provide a plan to optimize the operational performance of topside HF/UHF/VHF Communications Antennas considering their location and the effects of ship's structure. Analyze the ship's susceptibility relative to electrical and physical security of electrical information processing systems. Identify the SHIP PROGRAM LAN architecture, infrastructure and design considerations, including open architecture. Provide systems engineering support to the SHIP program for development of the C4I Support Plan (C4ISP) and Integrated Architecture. Recommend/implement the transition of legacy C4ISR systems to modern open-standard/architecture digital systems by leveraging existing technology refresh-capable, ruggedized Commercial Off The Shelf (COTS) equipment, systems and architectures

# E5: Mission Systems Engineering

Develop and describe the handling and stowage systems for Cargo/Ammunition (Ground), Aviation Ammunition, Stores, and United States Marine Corps (USMC) Vehicles including vehicle ancillary services in sufficient detail to provide arrangements, weight, and cost data. Develop, design and describe the replenishment system in sufficient detail so that sizing criteria, system arrangements, characteristics of main and auxiliary equipment, and estimated weights can be obtained. Develop and describe in sufficient detail to provide arrangement, weight, and cost data the following items: the Well Deck and Landing Craft Handling systems, Anchoring, Mooring, and Towing systems, Boat Handling and Unmanned Vehicles, small craft, and towed body interface (launch & recovery, and stowage and handling systems), Torpedo handling/stowage and Torpedo launch, and Medical and Dental facilities. Develop modeling and simulation (M&S) tools for demonstrating the functionality of the SHIP super system and ensure that the integration of all subsystems meet operational requirements. This M&S tool can be used to demonstrate the flow of weapons/cargo, vehicles and troops, along with sortie generation rates for both aircraft and landing craft onload/offload capabilities. This will also aid in providing detail to arrangements, weight and cost data for contract design initiation, and useful in identifying Shipboard workload reduction concepts.

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E6: Human Systems Integration (HSI)

Conduct Human Systems Integration (HSI) across all ship/system boundaries and interfaces. A human-centered design approach shall be employed that optimizes manning, enhances human performance, and achieves the mission requirements. Address human factors engineering, human performance, manpower, personnel, training, survivability, system safety, and quality of life aspects of the ship/system design. Ensure that the ship/system design/design modification/modernization efforts or upgrade maintains optimized manning throughout the ship/system life cycle, minimizes total ownership cost, and provides the crew with a high quality of life.

Perform top-down-requirements analyses to allocate functions/tasks to hardware, software, or to personnel in support of total system performance, which includes human performance. Demonstrate that an optimized crew can effectively operate and maintain the ship/system.

Define the skills required for each task; work load (hours / week); and organization for each billet and off-board personnel required to operate, maintain, and support the ship/system over its operational spectrum.

Design a Total Ship System Training Architecture (TSSTA) that provides for a fully mission ready crew, including individual, team, and battle group training, and shore establishment. The TSSTA shall develop specified skills for watchstanding and on-board maintenance. The Contractor shall identify any changes in the U.S. Navy infrastructure, policy, statutes, organization, and procedures, necessary to operate and support the introduction and operation of the ship/system into the current force.

The following are applicable references, provided for guidance in HSI activities:

- 1) ASTM F1166-95a Standard Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities
- 2) ASTM F1337-91 Standard Practice for Human Engineering Program Requirements for Ship and Marine Systems, Equipment, and Facilities
- 3) IEEE Std 1220-1998 Standard for Application and Management of the Systems Engineering Process

Develop the Human Systems Integration (HSI) Plan. The HSI Plan describes the approach to developing and managing the ship/system HSI and manning requirements, HSI elements, and functionalities to ensure the attainment of ship/system human performance, safety, habitability, personal survivability, manning, personnel, and training objectives. The HSI Plan shall include ship/system HSI scope and structure, HSI engineering process and controls integrated with the systems engineering process, HSI Schedule, and the HSI engineering team composition, for all ship/system HSI activities, including manpower, personnel, training, human engineering, and Quality of Life (QOL). The HSI Plan identifies applicable standards and guidelines to ensure that ship/system HSI objectives are met, describes HSI activities and products at each phase of acquisition, identifies HSI measures of effectiveness and measures of performance, and describes studies and analyses to develop the training concept, workload reduction concept, and human machine interface design concept for the expected worst case ship operational environments.

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Develop the Navy Training Systems Plan (NTSP), which defines the training requirements and resources for emergent requirements and systems (including major subsystems, e.g. gun, munitions). The NTSP documents mechanisms for ensuring that emergent training requirements are met, and identifies personnel required to install, operate, maintain or in any way use the emergent system. The NTSP shall be prepared in consideration of the requirements of OPNAVINST 1500.76, "Navy Training System Requirements, Acquisition and Management" and NTRDM P-751-1-9-97, "Navy Training Requirements Documentation Manual."

Develop the Manning Concept to provides a detailed description of the ship/system manning including:

- a) Definition of each billet and description of tasks to be performed, workload (hours per week), and the skills required to perform each function.
- b) Risks associated with each function and system; include mitigation measures and manning impact.
- c) Personnel management concepts, such as crew rotation schemes; crew selection criteria, assignment, training, and deployment; shipboard organization including operational and administrative organizations to support battle management; platform management; operational guidelines for HM&E, damage control, and automation;
- d) Analytical reports and/or test results supporting manning concept design including:
- i) A Crewing Workload Analysis Report that validates the suitability of the crew size and composition to perform required {ship/system} missions, maintain ship systems and/or equipment, conduct shipboard evolutions, and provide necessary technical, engineering, material, logistics, and administrative support across the full spectrum of peacetime and wartime applications.
- ii) A Crew Training Analysis Report that validates that crew level training is fully supportive of required {ship/system} missions and is sustainable.

Develop System Manpower, Personnel, and Training Policy Requirements. System Manpower and Personnel Policy Requirements serve to identify required or recommended changes to statutes, policies or doctrine in order to ensure realization of the {ship/system} manning concept and manpower, personnel, and training objectives.

Design human machine interfaces for operations and maintenance workstations and work sites based on an analysis of requirements for human interaction with automation, and techniques to automate, consolidate, eliminate, and simplify functions and tasks on legacy ships and systems. Specific attention will be given to reduction in human error in operations and maintenance, and making systems error tolerant.

Develop HSI Performance Metrics for the engineering design, risk management and test and evaluation of human performance at all workstations and work sites used for operations, maintenance and support.

E7: Total Ship Survivability Engineering

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Develop and/or provide the design requirements for ship susceptibility. Ensure that the ship design will fulfill the Radar Cross Section, Acoustic Radiated Waterborne Noise, Infrared (IR), and Magnetic signature goals as specified in the CDD. Analyze the ship's proposed Combat Systems self defense capability. Assess the vulnerability of the ship design. Assist in the development and selection of ship protection features, which will enable the ship to fulfill the goals for survivability as specified. Ensure that the latest survivability features against AIREX threats are applied to the ship design so that the ship fulfills survivability goals as specified in the CDD. Ensure that the ship design will fulfill the UNDEX protection goals as specified. Ensure that adequate and latest Fire Protection, Damage Control, CBR warfare defense, and Recoverability capabilities are incorporated in the ship design in order to fulfill the goals for survivability as specified. Ensure survivability solutions are incorporated into the design package.

Develop and/or conduct survivability studies for hull, mechanical, and electrical systems and equipment. Develop and/or describe survivability/vulnerability methodology, perform and/or review ship vulnerability model studies, develop and assess shock hardening techniques, acoustic and non-acoustic signature, investigate fire and damage control aspects as they apply to ship survivability, and weapons effects, both conventional and nuclear. As necessary, the efforts will involve consideration of ballistic effects, thermal effects, electromagnetic pulse (EMP), nuclear air blast, underwater shock, and radiological, chemical, and biological warfare. Investigations and studies will involve total ship survivability system and subsystem survivability, and defense mechanisms.

Provide technical and management services in support of the development and design evaluation. This includes Hull, Mechanical, and Electrical (HM&E) system analysis for survivability strengths and weaknesses. Perform identification of system compliance with basic principles of separation and redundancy. Research various HM&E systems to identify design issues in order to enhance the survivability of the ship. Provide support in the development of the total employment of these systems into a basic concept of operations (CONOPS). Review the Damage Control CONOPS as the system design matures. Develop and provide methods by which the design can be evaluated within the context of a variety of casualty scenarios. Support the planning and coordination of working groups and design reviews

#### E8: Aviation Systems Engineering

Develop and describe all facets of design related to aviation. Develop and describe the ship flight deck and hangar deck design and requirements, including: sizing, location of deck markings, servicing requirements and location, spotting, deck flow, placement and sizing of the aircraft elevators, helo control stations, hangar doors, Recovery Assist, Securing and Traversing (RAST) System, Jet Blast Deflector (JBD) and ski jump, maximum density spotting, and vertical replenishment (VERTREP) operations. Develop and describe the visual landing aids requirements and night vision device compatibility requirements in sufficient detail to provide arrangements, performance specifications, and cost data. Develop and describe aircraft maintenance facilities requirements to a level that permits optimum size and locations in the ship. Support aviation modeling and simulation efforts, including the development of a ship effectiveness model. Perform modeling and simulation to obtain airwake and thermal data with various ship and aircraft configurations. Provide support to incorporate existing or planned aircraft programs in order to assess their impact on ship design. Develop and describe ship

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aviation related C4I requirements, including: define the interfaces and the information products and services exchanged between the aviation and ship systems for mission planning and execution, support, and training. Specify communications, data links, and information systems as required.

# E9: Engineering Design Data & History

Review, maintain and make recommendations with regard to engineering plans, program records, technical manuals, design histories, design configurations, databases, regulatory body and other documents. Maintain a digital technical library and database with paper backup. Prepare documentation to support and trace design decisions and evolution. Document design requirements, assumptions, and results. Implement requirements traceability mapping tools.

#### E10: Marine Regulatory Body & Commercial Standards

Evaluate issues and surface ship historical background to provide recommendations related to regulatory body and American Bureau of Shipping (ABS) issues, including statutory compliance. Review, and provide recommendations on total commercial ship and ship system performance specification and design and certification issues. Maintain a legacy specification or requirements document incorporating lessons learned over the course of the program.

# E11: Computer Aided Design & Engineering.

Provide digital engineering support services, which includes Computer Aided Design, Computer Aided Engineering, and modeling and simulation-based analyses. Provide an Integrated Design Environment.

# E12: Test and Evaluation Engineering

Draft, analyze, review, and provide recommendations on test and evaluation program planning, provide installation, testing, execution documentation and checkout support of ship and mission systems and participate in tests and trials. Conduct testing of ship systems and equipment. Tests may be either shore based or on board ship and are conducted for the purpose of demonstrating compliance with published specifications, drawings, etc., and demonstrating attributes such as workmanship, alignment, strength, rigidity, tightness, and suitability for the purpose intended. During these tests, the contractor will arrange for the provision of all necessary materials, power, equipment, instrumentation, and personnel to conduct each test. Appropriate documentation, test plans, test agenda, and test reports will be prepared by the contractor. Participate in various ship trials. These trials include Acceptance Trials, Final Contract Trials, Standardization Trials, Vibration Trials, Machinery Performance Trials, Dock Trials, Post Repair Trials, Shock Trials, and other special trials. Perform specific scientific, operational, and physical tests and evaluations in support of developmental items. Provide engineering support during trial card meetings and screening conferences. Conduct a technical evaluation of responses to all trial cards to verify the feasibility of the response and compatibility with ship systems. Provide a surge trial card team during peak trial card activity to investigate and resolve trial cards that impact HM&E systems in conjunction with the trial card coordinator and NAVSEA technical codes.

# E13: Reliability, Maintainability, Availability Engineering.

Conduct reliability, maintainability, availability, transportability, hazard, environmental,

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occupational health, system safety, risk analyses, and other system engineering analyses. Provide reports, plans, and other substantiating documentation as required. Provide support for the development, implementation, and maintenance of an engineering database consisting of equipment operating times; Reliability, Maintainability, and Availability (R/M/A) data; Configuration Management and Maintenance; etc. This effort includes collection and development of engineering data and providing the data in reports which identify equipment configuration, repair/failure history, maintenance projections, and R&M projections. The data base is sufficiently adequate for projecting requirements for spare engine, depot repair projections, modification kit requirements, special support equipment and systems stock planned program requirements. Develop and provide maintenance plans with schedules identifying periodic inspection and maintenance actions required by the maintenance projections.

# E14: Failure Modes and Effects Analyses

Conduct failure modes and effects analyses and prepare appropriate reports. A failure modes and effect analysis is an organized procedure for identifying evaluating, and analyzing all known potential failure modes for the equipment/system in question, together with the causes and the proposed actions to inhibit such failures or reduce their criticality. All detection mechanisms and backup means of operation for a given failure mode shall be identified. For all single-point failure mode (where no redundancy exists in the design) any compensating provisions such as failure indicators, fail-safe features, securing mechanisms, and alarms shall be identified. Where there are no compensating provisions, justification shall be provided for their lack of adequate compensating provisions recommended.

# E15: Materials Engineering

Provide support in the development, analysis, testing and certification of materials and their application. Provide support in the areas of materials engineering, and materials quality assurance and reliability. Work consists of specification development and revision, evaluation of new materials, recommendation/selection of materials for specific applications, testing of selected materials (both destructive and non-destructive), failure analyses, and fabrication and joining techniques, among others.

#### E16: Ship Certification

The contractor shall provide ship and ship system certification support to include as a minimum: development or evaluation of Total Ship Certification strategies and plans; development or evaluation of individual system certification requirements and associated design rules, certification criteria & procedures; development or implementation of certification documentation including the management of Objective Quality Evidence to support certification determinations by cognizant technical authorities; and, engineering analysis and technical support for the planning & execution of a comprehensive Total Ship Certification Program on a given ship. This will also include liaison to, or participation with, the American Bureau of Shipping (ABS).

# E17: Total Ship Systems Integration

Perform total ship system integration. Total ship systems integration is the amalgamation of the principal design products and trade-off studies during the ship design process into a design

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package that synthesizes all shipboard subsystems into a total ship system. In this process, all technical aspects of the design are required to be coordinated, configuration control managed, new technologies prioritized and evaluated from a risk/reward basis, and inconsistencies or incompatibilities between ship subsystems resolved. Ship system integration tasks may also be assigned during ship modernization and conversion. Establish and control major ship interfaces to support modular payloads. The contractor shall conduct ship surveys and audits to identify, evaluate, and resolve ship systems engineering discrepancies that impact ship performance. Provide technical services at meetings, technical reviews and program reviews. Interface with NAVSEA technical codes, Program Office, shipbuilders, planning yards, Navy Labs, Supervisors of Shipbuilding and support contractors to evaluate and resolve technical issues.

# E18: Integrated Topside Design (ITD)

Perform comprehensive topside design integration. ITD is a Systems Engineering and integration effort that treats all ship topside structures, associated equipment and cooperating elements as a total ship topside system while considering the impact of the mechanical, climatic, environmental, signature and electro-magnetic environmental effects upon the whole system. Integrated Topside Design shall be performed in accordance with the Integrated Topside Design and Certification Process for New Construction Ships and the Integrated Topside Design and Certification Process for In-Service Ships.

# E19:Design for Production / Producibility Engineering Studies

Conduct design for production engineering efforts to develop recommended changes to ship design to improve the producibility. Develop generic build and/or production strategies. Conduct producibility engineering studies on various ship systems and equipment, identifying and evaluating alternatives in designs which could reduce construction and/or fabrication costs or time. Identify and evaluate changes in ship materials, equipment, or configuration which have potential construction cost savings and favorable impact upon weight or performance. Identify changes which could reduce maintenance burden or reduce numbers of parts thereby enhancing utility over the life cycle.

# E20: Value Engineering Studies

Conduct value engineering studies on various ship systems and equipment, identifying and evaluating alternatives in designs which could reduce construction and/or fabrication costs or time. Identify and evaluate changes in ship materials, equipment, or configuration which have potential construction cost savings and favorable impact upon weight or performance. Identify changes which could reduce maintenance burden or reduce numbers of parts thereby enhancing utility over the life cycle.

#### E21: Standardization and Reverse Engineering

Develop Navy owned designs for ship equipments including (as appropriate) reverse engineering (forensic analysis of existing equipments for materials, fabrication techniques, dimensioning, and tolerancing). Unique designs will be produced for individual equipment or families of equipment, including but not limited to a series of fire pumps, winches or valves with differing capacities.

 
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E22: Product Model, Drawing Preparation and Review

Develop and produce the following ship design products:

Ship design product models and drawings;

Ship construction product models and drawings;

Selected record drawings;

Installation control drawings;

Ship equipment drawings (including outline drawings, assembly drawings,

subassembly drawings, parts lists, JCFs, SAPs, SARs, SCDs);

Non-deviation drawings;

Standard and Type drawings;

Project peculiar documents.

Provide appropriate levels of review of any such product models and drawings. Reviews may be required for format, technical feasibility, dimensioning and tolerancing, producibility, technical accuracy, or any combination of the foregoing.

E23: Models and Mockups

In support of certain engineering tasks, construct feasibility models or mockups of various ship systems and equipment and assemble items or developmental equipment for shipboard tests and simulations. This includes electrical breadboarding, scale study models of handling equipment, compartment arrangement models, etc. Extensive use of computer aided design and simulations is anticipated.

E24: Hull Form Engineering

Provide technical and scientific efforts in support of hull form research and development engineering efforts in the areas of Hull Form Studies, Risk Assessment, Wind and Wave Effects, Theory Advisory, Dynamic Stability, and Computational modeling.

PROJECT MANAGEMENT (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

PM1: Project Work Schedule, Cost Management

Provide formal management systems and processes to manage work schedule and cost, specifications, configuration management, and product quality assurance.

PM2: Ship and Ship Systems Cost, Schedule and Performance Management

Evaluate issues and provide recommendations related to ship, ship system, and information system cost, schedule, and performance.

PM3: Technical and Detail Design Management Review

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Manage the technical studies, design, design reviews, problem resolution, and life-cycle monitoring work. Support design meetings, zone reviews, program reviews and conferences.

PM4: Technical Action Item Tracking.

Maintain a computer based action item tracking system to track all technical work done in support of ship projects.

PM5: Specification Development Process & Management

Manage development and decision basis of performance-based specifications, circulars of requirements, and other specifications.

PM6: Configuration Management

Contractor shall provide technical and engineering services in support of configuration management. Configuration management is a discipline that integrates the technical and administrative actions of identifying the functional and physical characteristics of an item during its life cycle, controlling changes to those characteristics and providing information on the status of change actions. Configuration management is comprised of three major areas of effort: identification; control; and status accounting. The contractor will provide technical support for configuration management in all phases of the life cycle of a configuration item. This entails conducting configuration audits, identifying items, establishing and maintaining databases, engineering change proposal preparation and tracking, participation in technical reviews, and preparing of appropriate reports during the ship design.

PM7: Engineering Change Proposal Development

Changes and improvements during the detail design development may be necessary. These can result from directed changes in basic requirements or from discrepancies in specifications or contract design drawings. In most cases, these changes and improvements will be implemented by Engineering Change Proposal (ECP) in coordination with the Ship Acquisition Program Manager (SHAPM).

Contractor tasks may include the following:

Identification during detail design review, of changes, and improvements that may require ECP action

Development of preliminary ECP's for review & comment

Participation in preliminary ECP review meetings

Development of final ECP's for presentation to SHAPM change control board

Review of resulting detail design changes developed in response to an approved ECP

PM8: Computer Aided Design Management.

Manage efficiently design and design integration using 2-D computer aided design tools; 3-D product modeling tools; structural, hydrodynamic, and various engineering software tools.

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# PM9: Project Team Integration

Provide processes to manage multi-disciplinary project teams. Teams may include personnel from other companies, shipyards, or Navy activities (i.e. Naval Surface Warfare Center).

PM10: Classified Project Design Site Process/Management

Maintain management processes to work on classified projects up to Secret within the Design Site described in Design Site task 1 (DS1) below.

ENGINEERING MANAGEMENT SUPPORT (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

EM1: Total Ship Systems Engineering Team/Integrated Product Team Management Support

Arrive at fiscal estimates and schedules to satisfy engineering team/integrated product team (IPT) requirements. Ensure each task is scheduled to permit the most continuous flow of activity and to make all participants aware of changes in direction. Be responsible for ensuring all engineering team/IPT products are integrated and consistent within the engineering team/IPT as well as across all other engineering teams/IPTs. Where decisions or compromises cannot be made within the engineering team/IPT, request a decision by a higher authority.

# EM2: Design Integration Management Support

Perform system design reviews in the context of a total ship engineering approach. Review, analyze, make recommendations for the use of, and implement design budget controls. Review, analyze, and make recommendations for the use of, and implement design decision-making tools. Develop a Specifications package consistent with the intent of the Acquisition Strategy. Establish and maintain a Configuration Management Database. Review, analyze and track Contract Data Requirements List (CDRL) items.

# EM3: Engineering Management Documentation Support

Draft and maintain the Ship Design Systems Engineering Management Plan (SEMP), Annual Execution Plan and Ship Design History. Develop a Modeling and Simulation support plan. Develop a Verification, Validation and Accreditation (VV&A) Plan. Review and modify ship program and project products for proper grammar, readability, and clarity. Perform all aspects of design related data management, including the identification of data items, acquisition, control, maintenance, and storage of data from preliminary design through construction and ship delivery. Provide technical writing assistance including preparation of Technical Reports and Annual Reports.

## EM4: Business and Financial Management Support

Provide draft budget exhibits for all appropriation accounts, including RDT&E and SCN, for the annual FMB review, OSD review, and President's Budget congressional review. Provide a strategic budgeting Red Team, to review and prepare analysis reports of draft budget exhibits to reflect possible reaction of higher level comptroller officials and congressional staff members to the budget. Provide funds execution plans for anticipated obligations and expenditures for each appropriation account, including RDT&E, SCN, OPN, and O&MN, for the life of the funds

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appropriated for each fiscal year, and update the plans to reflect the status of actual execution. In collaboration with participating managers, provide funds execution plans for anticipated obligations and expenditures for each component of cost in the Ship Project Directive work breakdown structure for each item of government furnished equipment over the entire duration of the life of the funds. Update the plans to reflect the status of actual execution. Provide funds execution information for inclusion in program briefings, reports, and correspondence to comptroller officials and congressional staff members.

# EM5: Risk Management Support

Provide technical and engineering expertise to identify, analyze, mitigate, and track the program's technical risks. Implement and execute the program's risk plan as it applies to technical risk. Provide technical risk assessments, analyses, metrics, and recommendations. Research technical risk lessons learned from other Ship Acquisition Programs, and select risk items that may be applicable to ship programs and other projects. Provide training for members of SDM teams on techniques available to control risk. Prepare information and summaries of technical risk management initiatives, plans and results for inclusion in briefings, status reports, and program milestone documentation for reviews by acquisition officials in the Navy Secretariat and the Office of the Secretary of Defense.

### EM6: Management Operating System Support

Assist with the development, implementation, and execution of the NAVSEA/PEO Management Operating System, including, but not limited to: action item tracking and reporting, development and maintenance of the Master Design Schedule, and activity log and workload tracking and projections.

# EM7: International Technical Exchange Program Management Support

Identify potential foreign programs and design efforts of beneficial interest to SEA 05 and ship programs. Work with, but not limited to, Navy International Programs Office, technical authorities, other DoD program offices, and foreign governmental officials to establish a sufficient set of agreements to permit the exchange of relevant data between ship and selected foreign programs and design efforts. Plan and facilitate meetings and conferences between SEA 05 and ship programs and selected foreign programs and design efforts. Track data requests and exchanges between SEA 05 and foreign programs and design efforts.

# TECHNICAL STUDIES (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

#### TS1: Concept Studies

Perform engineering concept studies to develop and define new ship designs in support of the Joint Capabilities Integration and Develop System (JCIDS) [CJCS 3170], analysis of alternative efforts, technology assessment and needs identification, strategic studies and planning, force structure studies, naval wargaming, and emergent joint and naval capabilities requirements.

#### TS2: Future Force Formulation Studies

Develop force level concepts including ships, unmanned vehicles, and other force components. Performance warfare assessments and analysis of alternative future forces. Support war gaming

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on force level concepts.

TS3: Ship Design Tools, Processes, Practices, Criteria, Databases

Develop and upgrade computer tools that are used to do engineering analysis and other engineering efforts in support of ship design and naval engineering. Develop and upgrade ship design and engineering processes, practices and methods. Develop and upgrade engineering and design criteria for naval ship design. Develop and upgrade databases, web pages and other ship design and engineering repositories and references.

Collect existing information on design tool usage, standardization, data translation/exchange and usage of IDEs on Navy programs from various sources including recent studies, publications, key SEA 05 personnel with related responsibilities (current and former TWH for Product Data Integration and Exchange/Tools), etc.

Create list of issues related to standardization of design tools and approach that will impact the cost of the Future Fleet. Examples of areas to investigate include shortfalls in the areas of design tools, drawing manuals, training packages, vendor furnished information, and other tech documents/electronic reviews.

Provide alternatives for implementing standardized design tools and approaches that will improve the affordability of ship design and construction programs.

## TS4: Human Systems Integration Engineering

Identify the minimum quantitative and qualitative manpower requirements essential to operation, maintenance, and support of the ship under given conditions of readiness with the goal of a manpower reduction in accordance with the CDD. Perform a Top-Down Functional Analysis for ship in conjunction with other IPTs, to support the total ship manpower assessment and provide analysis for HSI support and requirements definition and decomposition. Ensure that human factors and other HSI domains are integrated into the design at the earliest possible stages keeping shipboard workload reduction in focus. Review, revise, and recommend methods and rationale that identify military and civilian personnel with the skills and grades required to operate and maintain ship systems and equipment. Provide technical analyses, reviews, studies, inputs and recommendations for the development of training documentation, processes and plans.

TS5: Integrated Logistics Support (ILS)

Draft and recommend technical ILS requirements in shipbuilding, systems production, and modernization throughout program life cycle.

Provide support in all areas of ILS for ships, ship systems and shipboard equipment and prepare supporting documentation. ILS is the composite of all support considerations necessary to assure the effective and economical support of a system or equipment for it programmed life cycle. Logistics elements include all requirements and resources necessary to operate and maintain the system or equipment at all levels of support (organizational, intermediate, and depot). Provide recommendations for spare parts based upon technical investigations of problems or identified maintenance issues. Provide technical analyses in support of logistics management, and perform reviews of technical manuals and other logistics documentation.

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The elements to be addressed include:

Maintenance Planning;

Support and test equipment;

Supply Support;

Packaging, Handling, storage and transportation;

Technical Data (including drawings);

Technical publications;

Facilities:

Personnel and training.

TS6: Ship Conversion

Undertake ship conversion feasibility studies in support of emerging requirements. These studies shall be supported by cost and schedule estimates.

TS7: Red Team Reviews / Independent Review Panels / Audit Teams

Facilitate and provide required technical information/corporate memory expertise to IPTs, special advisory boards, offsites, working groups and audit teams.

TS8: Special Studies Engineering

Undertake special studies in support of emerging requirements or to address fleet technical issues.

TS9: Independent Cost Estimates and Schedules

Prepare independent cost estimates and schedules for system procurement or repair, life cycle, production, or other activities and provide recommendations on cost realism.

TECHNICAL LIBRARY MANAGEMENT (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

TL1: Design Histories

Maintain a complete electronic and hard copy design history including specifications; all technical issues studied and reported; correspondence tracking system, plans and schedules, technical presentations and briefings. Support maintenance of data and/or history on a Navy web site.

#### TL2: Design Databases

Manage and maintain database. Maintain document library in a searchable format. Library is to be updated and available to personnel at design site and NAVSEA technical codes. Provide technical direction/assistance to install library and search system onto local area network.

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ON-SITE SUPPORT FOR CONTRACT DESIGN, DETAIL DESIGN, CONSTRUCTION AND POST-DELIVERY (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

PS1: On-Site Engineering Support

Provide on-site engineering, project management and technical support at shipbuilder's facility, and repair facilities during detail design, construction and post-delivery.

PS2: On Site Test, Trials, Evaluation and Logistics Analysis Support

Provide on-site test, trials and logistics analysis support at shipbuilder's facility during detail design, construction and post-delivery. Provide logistical analysis and support to SEA 05D for issues relevant to ships.

DESIGN SITES (Funded by RDT&E, SCN, OPN, O&M, NDSF, FMS)

DS1: Design Sites

Provide and maintain a suitable, co-located facility from which to conduct this work, within a 2-mile radius from the Washington Navy Yard, to support integrated design and engineering capability including accredited connectivity to the NAVSEA Zone 1 network infrastructure. This facility shall be capable of accommodating government personnel and contractor personnel numbers as needed to support the project or program. This facility shall house a technical library (digital and paper) of no less than 400 square feet. The design site shall contain conference and meeting facilities including a networked conference room with projection and VTC capability (including the ability to host a VTC with potentially 7 different locations with at least one site simultaneously displayed with a data presentation) capable of seating 40 people. The conference room shall be capable of being secured for classified meetings to the Secret level. The design site shall have ready access to a networked conference room with projection capability capable of seating 150 people. The design site shall contain a dedicated networked conference room with projection capability of seating up to 12 people. The facility shall provide all computer hardware and software required to support these task statements. The facility shall have a secure room suitable for closed storage of classified material up to Secret and for classified data processing. The design site shall meet requirements for security accreditation up to Secret, if required by the project. Additionally, the contractor shall provide offsite safe storage of all backup digital data.

DS2: Design Site Information Technology and Network Support

Maintain information technology and network support to the design site. Provide NMCI compliant connectivity and necessary connection to shipbuilder/design agent design information infrastructure.

DS3: Integrated Digital Environment

The contractor shall develop and maintain an Integrated Digital Environment (IDE), which shall be accessible by ship design program/project stakeholders. The IDE shall provide the ability to electronically communicate and process information across the various ship design project activities, processes, and functions, including but not limited to the entry, movement, manipulation, configuration management, maintenance, and approval of data.

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#### **GENERAL DELIVERABLES:**

# **Progress Reports:**

A monthly progress report is due to the Task Order Manager that identifies authorized funding, current and cumulative expenditures, remaining funds and percentage of funds remaining, assigned tasks and percentage of completion for individual tasks.

Other progress reports/schedules/agendas/meeting minutes/studies as defined by individual task order or technical instruction based on a cost estimate.

Engineering Products Format:

Deliverables shall be in electronic MS-Office format, MS-Project, PDF or HTML formats. Design and engineering product models shall be in accordance with ISO 10303 Standard for the Exchange of Product model data (STEP) Application Protocols (APs):

#### SYSTEM LEVEL APs

AP 233 Systems engineering data representation

AP 239 Product lifecycle support

SHIP STRUCTURAL ENVELOPE APS

AP 215 Ship arrangement

AP 216:2003 Ship molded forms

AP 218 Ship structures

#### **DISTRIBUTED SYSTEMS APS**

AP 212:2001 Electrotechnical design and installation

AP 227 Plant Spatial Configuration (piping, HVAC, cable trays, simple mechanical systems

Material and Prototype Hardware--The contractor may be required to procure materials for construction/fabrication of feasibility models and mock ups, and materials in support of shipboard and laboratory testing. Prototype hardware items may be procured for the purposes of testing and validation of products vs. requirements. This may require technical assistance in procurement, in-process design reviews, hardware manufacturing progressing, trial installations, Technical Evaluation (TECHEVAL), Operational Evaluation (OPEVAL), and test results analyses. This contract is not to be construed as a hardware procurement. Material and hardware may be procured under this contract for prototype and demonstration shipboard installations.

#### SECURITY REQUIREMENTS

Much of the work under this contract shall be UNCLASSIFIED. A portion may be classified at the Secret level. Additionally, all ADP positions required for database support must conform to applicable Department of Defense and Department of the Navy requirements.

#### **FACILITY:**

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- a. Capability to store up to TOP SECRET in secure containers.
- b. Ability to work with TOP SECRET material at the Design Site (may be restricted room or area).
- c. Does not require classified open storage.
- d. Requirement for receptionist to control access to site.

# PERSONNEL:

- a. Personnel to be U.S. citizens (exceptions on a case-by-case basis).
- b. Principal and senior staff (not less than 75% of staff) to have SECRET clearances. (Select staff to have TOP SECRET clearances as necessary).
- c. Junior staff and some administrative staff may have CONFIDENTIAL or no clearances (not more that 25% of staff).

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#### SECTION D PACKAGING AND MARKING

Packaging and marking shall be in accordance with Section D of the IDIQ contract.

#### **UNCLASSIFIED DATA**

All unclassified data shall be prepared for shipment in accordance with best commercial practice.

# **CLASSIFIED DATA**

Classified reports, data, and documentation shall be prepared for shipment in accordance with National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M dated 28 February 2006.

MARKING OF REPORTS (NAVSEA) (SEP 1990)

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

- (1) name and business address of the Contractor
- (2) contract number
- (3) contract dollar amount
- (4) whether the contract was competitively or non-competitively awarded

(5) sponsor:	
	(Name of Individual Sponsor)
	(Name of Requiring Activity)
	(City and State)

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# SECTION E INSPECTION AND ACCEPTANCE

Inspection and Acceptance for all items shall be in accordance with Section E of the SEAPORT Multiple Award IDIQ contract.

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# SECTION F DELIVERABLES OR PERFORMANCE

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

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7000AB	6/1/2016 - 5/31/2017
7000AC	3/24/2016 - 3/23/2017
7000AD	3/24/2016 - 3/23/2017
7000AE	3/24/2016 - 3/23/2017
7000AF	3/24/2016 - 3/23/2017
7000AG	3/24/2016 - 3/23/2017
7000AH	3/24/2016 - 3/23/2017
7000AJ	3/24/2016 - 3/23/2017
7000AK	3/24/2016 - 3/23/2017
7000AL	3/24/2016 - 3/23/2017
7000AM	3/24/2016 - 3/23/2017
7000AN	3/24/2016 - 3/23/2017
7000AP	3/24/2016 - 3/23/2017
7000AQ	3/31/2016 - 9/1/2017
7000AR	3/31/2016 - 9/1/2017
7000AS	3/31/2016 - 9/1/2017
7000AT	3/31/2016 - 9/1/2017
7000AU	3/31/2016 - 9/1/2017
7000AV	3/31/2016 - 9/1/2017
7000AW	3/31/2016 - 9/1/2017
7000AX	3/31/2016 - 9/30/2017
7000AY	3/31/2016 - 9/30/2017
7000AZ	3/31/2016 - 9/1/2017
7000BB	3/31/2016 - 9/1/2017
7000BC	3/31/2016 - 9/1/2017
7000BD	3/31/2016 - 9/1/2017
7000BE	4/6/2016 - 9/1/2018
7000BF	4/6/2016 - 9/1/2017
7000BH	4/6/2016 - 9/1/2017
7000BJ	4/6/2016 - 9/1/2017
7000BK	3/29/2016 - 9/1/2017
7000BL	3/29/2016 - 12/31/2017
7000BM	3/30/2016 - 9/1/2017
7000BN	4/1/2016 - 3/30/2017
7000BP	4/1/2016 - 3/30/2017
7000BQ	3/24/2016 - 3/23/2017
7000BR	4/1/2016 - 9/1/2017
7000BS	4/6/2016 - 4/5/2017

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7000BT		3/29/2016 - 12/31/2017		
7000BV	7/2/2016 - 7/1/2017			
7000BW		7/2/2016 - 7/1/2017		
7000BX		7/2/2016 - 7/1/2017		

7000BT	3/29/2016 - 12/31/2017
7000BV	7/2/2016 - 7/1/2017
7000BW	7/2/2016 - 7/1/2017
7000BX	7/2/2016 - 7/1/2017
7000BY	7/2/2016 - 7/1/2017
7000BZ	7/2/2016 - 7/1/2017
7000CA	7/2/2016 - 7/1/2017
7000CB	7/2/2016 - 7/1/2017
7000CC	7/2/2016 - 7/1/2017
7000CD	7/2/2016 - 7/1/2017
7000CE	7/2/2016 - 7/1/2017
7000CF	5/18/2016 - 9/1/2017
7000CG	6/2/2016 - 9/30/2017
7000CH	5/18/2016 - 9/1/2017
7000CJ	5/18/2016 - 9/1/2017
7000CK	5/18/2016 - 9/1/2017
7000CL	5/18/2016 - 9/1/2017
7000CM	5/18/2016 - 9/1/2017
7000CN	5/18/2016 - 9/1/2017
7000CP	5/18/2016 - 9/1/2017
7000CQ	5/18/2016 - 9/30/2017
7000CR	5/18/2016 - 9/30/2017
7000CS	5/18/2016 - 9/30/2017
7000CT	5/18/2016 - 9/1/2017
7000CU	6/19/2016 - 9/1/2017
7000CV	6/19/2016 - 9/1/2017
7000CW	6/19/2016 - 9/1/2017
7000CX	7/2/2016 - 7/1/2017
7000CY	5/19/2016 - 9/17/2017
7000CZ	5/19/2016 - 9/17/2017
7000DA	5/19/2016 - 9/17/2017
7000DB	5/19/2016 - 2/1/2018
7000DC	5/19/2016 - 6/30/2018
7000DD	9/2/2016 - 6/30/2018
7000DE	5/20/2016 - 9/1/2017
7000DF	5/20/2016 - 9/1/2017
7000DG	7/2/2016 - 7/1/2017
7000DH	7/2/2016 - 7/1/2017
7000DJ	5/20/2016 - 9/1/2017
7000DK	9/16/2016 - 9/1/2017
7000DL	9/2/2016 - 9/1/2017
7000DM	9/2/2016 - 9/1/2017
7000DN	9/1/2016 - 8/31/2017

CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
7000DP		9/2/2016 - 9/1/2017
7000DQ		9/2/2016 - 9/1/2017
7000DR		9/2/2016 - 9/1/2017
7000DS		9/2/2016 - 9/1/2017
7000DT		9/2/2016 - 9/1/2017
7000DU		9/2/2016 - 9/1/2017
7000DV		9/2/2016 - 9/1/2017
7000DW		9/2/2016 - 9/1/2017
7000DX		9/2/2016 - 9/1/2017
7000DY		9/2/2016 - 9/30/2017
7000DZ		9/2/2016 - 9/1/2017
7000EA		9/2/2016 - 9/1/2017
7000EB		9/2/2016 - 9/1/2017
7000EC		9/2/2016 - 9/1/2017
7000ED		9/2/2016 - 6/1/2018
7000EE		9/2/2016 - 9/1/2018
7000EF		9/2/2016 - 9/1/2018
7000EG		9/2/2016 - 6/30/2019
7000EH		9/2/2016 - 9/30/2017
7000EJ		9/2/2016 - 5/31/2018
7000EK		9/2/2016 - 5/31/2018
7000EL		9/2/2016 - 9/1/2017
7000EM		9/2/2016 - 9/1/2017
7000EN		9/2/2016 - 9/1/2017
7000EP		9/2/2016 - 9/30/2017
7000EQ		9/2/2016 - 9/1/2017
7000ER		9/2/2016 - 9/1/2017
7000ES		9/2/2016 - 12/31/2017
7000ET		9/2/2016 - 9/1/2019
7000EU		9/2/2016 - 9/1/2017
7000EV		9/2/2016 - 9/1/2017
7000EW		8/15/2016 - 11/30/2016
7000EX		9/2/2016 - 9/1/2017
7000EZ		11/16/2016 - 11/15/2017
7000FA		11/16/2016 - 11/15/2017
7000FB		11/16/2016 - 11/15/2017
7000FC		11/16/2016 - 9/1/2017
7000FD		11/16/2016 - 11/15/2017
7000FE		11/16/2016 - 9/1/2017
7000FF		11/16/2016 - 11/15/2017
7000FG		11/23/2016 - 11/22/2017
7000FH		11/17/2016 - 9/1/2018
7000FJ		11/17/2016 - 9/1/2017

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	CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22	PAGE 44 of 114	FINAL
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7000FK	11/17/2016 - 11/16/2017
7000FL	11/17/2016 - 9/1/2018
7000FM	11/17/2016 - 9/30/2018
7000FN	11/16/2016 - 9/1/2017
7000FP	11/17/2016 - 9/1/2017
7000FQ	11/22/2016 - 3/31/2018
7000FR	11/22/2016 - 9/1/2019
7000FS	11/22/2016 - 9/1/2019
7000FT	11/22/2016 - 12/31/2017
7000FU	11/22/2016 - 9/1/2017
7000FV	11/22/2016 - 9/1/2017
7000FW	11/22/2016 - 9/1/2018
7000FX	11/22/2016 - 9/1/2018
7000FY	11/28/2016 - 9/1/2017
7000FZ	11/17/2016 - 9/1/2017
7000GA	11/23/2016 - 9/1/2017
7000GB	12/1/2016 - 11/30/2017
7000GC	1/12/2017 - 9/1/2018
7000GD	1/13/2017 - 9/1/2017
7000GE	1/12/2017 - 9/1/2018
7000GF	1/13/2017 - 1/12/2018
7000GG	2/8/2017 - 2/7/2018
7000GH	2/8/2017 - 2/7/2018
7000GJ	2/8/2017 - 2/7/2018
7000GK	2/8/2017 - 2/7/2018
7000GL	2/6/2017 - 9/1/2018
7000GM	2/9/2017 - 9/1/2018
7000GN	2/9/2017 - 9/1/2018
7000GP	2/9/2017 - 5/31/2018
7000GQ	2/9/2017 - 2/28/2018
7000GR	2/9/2017 - 9/1/2018
7000GS	2/9/2017 - 9/1/2018
7000GT	2/9/2017 - 6/30/2018
7000GU	2/8/2017 - 9/1/2018
7000GV	2/6/2017 - 9/30/2017
7000GW	2/8/2017 - 2/7/2018
7000GX	2/8/2017 - 9/1/2017
7000GY	2/8/2017 - 2/7/2018
7000GZ	2/8/2017 - 2/7/2018
7000HA	2/16/2017 - 2/15/2018
7000HB	2/8/2017 - 2/7/2018
7000HC	2/8/2017 - 2/7/2018
7000HD	2/9/2017 - 9/30/2018

CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
100170 01 2 1030	TROOTED TOST EFFOR	
7000HE		C/2/2017
7000HE		6/2/2017 - 6/1/2018
7000HF		6/2/2017 - 6/1/2018
7000HJ		6/2/2017 - 6/1/2018 6/2/2017 - 6/1/2018
7000HK		0, -, , -, -,
7000HL		6/2/2017 - 6/1/2018
7000HM		6/2/2017 - 6/1/2018
7000HP		5/17/2017 - 9/1/2018
7000HQ		5/17/2017 - 9/1/2018
7000HR		5/18/2017 - 9/1/2018
7000HS		6/2/2017 - 6/1/2018
7000HT		5/17/2017 - 9/1/2018
7000HU		6/2/2017 - 6/1/2018
7000HV		6/2/2017 - 6/1/2018
7000HW		6/2/2017 - 6/1/2018
7000HX		6/2/2017 - 6/1/2018
7000HY		6/2/2017 - 6/1/2018
7000JA		5/23/2017 - 5/22/2018
7000JB		6/2/2017 - 6/1/2018
7000JC		8/2/2017 - 8/1/2018
7000JD		8/2/2017 - 8/1/2018
7000JE		8/2/2017 - 8/1/2018
7000JF		8/2/2017 - 8/1/2018
7000JG		8/2/2017 - 8/1/2018
7000JH		8/2/2017 - 8/1/2018
7000JJ		8/2/2017 - 8/1/2018
7000JK		8/2/2017 - 8/1/2018
7000JL		8/2/2017 - 8/1/2018
7000JM		8/2/2017 - 8/1/2018
7000JN		8/2/2017 - 8/1/2018
7000JP		8/2/2017 - 8/1/2018
7000JQ		8/2/2017 - 8/1/2018
7000JR		7/25/2017 - 9/1/2018
7000JS		7/25/2017 - 9/1/2018
7000JT		9/1/2017 - 8/31/2018
7000JU		9/28/2017 - 9/1/2018
7000JV		9/28/2017 - 9/1/2018
7000JW		9/28/2017 - 9/1/2018
7000JX		9/28/2017 - 9/1/2018
7000JY		9/28/2017 - 9/1/2018
7000JZ		9/2/2018 - 9/1/2019
7000KA		9/28/2017 - 9/1/2018

9/28/2017 - 9/1/2018

9/28/2017 - 9/1/2018

7000KB

7000KC

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1100170 04 D 4030	1100170 04 D 4030 E1100	122
7000MD		0/20/2017 0/1/2010
7000KD		9/28/2017 - 9/1/2018
7000KE		9/29/2017 - 9/1/2018
7000KF		11/15/2017 - 11/14/2018
7000KG		11/15/2017 - 9/1/2018
7000KH		11/15/2017 - 9/1/2018
7000KJ		11/13/2017 - 9/1/2018
7000KK		11/13/2017 - 11/12/2018
7000KL		11/16/2017 - 9/1/2019
7000KM		11/16/2017 - 9/1/2019
7000KN		11/16/2017 - 9/1/2018
7000KP		11/16/2017 - 9/1/2018
7000KQ		11/16/2017 - 9/1/2019
7000KR		11/16/2017 - 12/31/2018
7000KS		11/16/2017 - 9/1/2019
7000KT		11/16/2017 - 9/30/2018
7000KU		11/21/2017 - 9/1/2019
7000KV		11/23/2017 - 1/31/2019
7000KW		11/23/2017 - 9/1/2019
7000KX		11/20/2017 - 9/1/2018
7000KY		2/10/2018 - 9/1/2018
7000KZ		2/10/2018 - 9/1/2018
7000LB		2/10/2018 - 9/1/2018
7000LC		3/29/2018 - 9/1/2018
7000LD		3/29/2018 - 12/31/2018
7000LE		5/4/2018 - 5/3/2019
7000LF		5/4/2018 - 9/1/2018
7000LG		7/2/2018 - 7/1/2019
7000LH		7/2/2018 - 7/1/2019
7000LJ		7/2/2018 - 7/1/2019
7000LK		7/2/2018 - 7/1/2019
7000LM		7/2/2018 - 7/1/2019
7000LN		7/11/2018 - 9/1/2019
7000LP		7/11/2018 - 9/1/2019
7000LQ		7/11/2018 - 9/1/2019
7000LR		7/2/2018 - 7/1/2019
7000LS		7/2/2018 - 7/1/2019
7000LT		7/2/2018 - 7/1/2019
7000LU		7/16/2018 - 7/15/2019
7000LV		7/16/2018 - 7/15/2019
7000LW		9/5/2018 - 9/1/2019
7000LX		9/10/2018 - 9/1/2019

9/10/2018 - 9/1/2019

9/10/2018 - 9/1/2019

7000LY

7000LZ

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22	PAGE 47 of 114	FINAL
7000MA		9/10/2018 - 9/1/2019		
7000MB		9/19/2018 - 9/1/2019		

7000MA	9/10/2018 - 9/1/2019
7000MB	9/19/2018 - 9/1/2019
7000MC	9/19/2018 - 9/1/2019
7000MD	9/19/2018 - 9/1/2019
7000ME	9/19/2018 - 9/1/2019
7000MF	9/19/2018 - 9/1/2019
7000MG	9/19/2018 - 9/1/2019
7000MH	9/19/2018 - 9/1/2019
7000MJ	9/19/2018 - 9/1/2019
7000MK	9/19/2018 - 9/1/2019
7000ML	9/19/2018 - 9/1/2019
7000MM	9/19/2018 - 9/1/2019
7000MN	9/19/2018 - 9/1/2019
7000MP	9/17/2018 - 9/1/2019
7000MQ	11/29/2018 - 9/1/2019
7000MR	11/29/2018 - 9/1/2019
7000MS	11/29/2018 - 9/1/2019
7000MT	11/29/2018 - 9/1/2019
7000MU	11/29/2018 - 9/1/2019
7000MV	12/4/2018 - 9/1/2019
7000MW	12/4/2018 - 9/1/2019
9000AA	3/24/2016 - 9/1/2019
9000AB	3/24/2016 - 3/23/2017
9000AC	3/24/2016 - 3/23/2017
9000AD	3/24/2016 - 3/23/2017
9000AL	3/24/2016 - 3/23/2017
9000AM	3/24/2016 - 3/23/2017
9000AS	3/31/2016 - 9/1/2017
9000AV	3/31/2016 - 9/1/2017
9000AW	3/31/2016 - 9/1/2017
9000AX	3/31/2016 - 9/30/2017
9000AZ	3/31/2016 - 9/1/2017
9000BA	3/31/2016 - 9/1/2017
9000BD	3/31/2016 - 9/1/2017
9000BJ	4/6/2016 - 9/1/2017
9000BM	3/30/2016 - 9/1/2017
9000BN	4/1/2016 - 3/30/2017
9000BQ	3/24/2016 - 3/23/2017
9000BU	3/29/2016 - 6/30/2018
9000BV	7/2/2016 - 7/1/2017
9000BX	7/2/2016 - 7/1/2017
9000CA	7/2/2016 - 7/1/2017
9000CE	7/2/2016 - 7/1/2017

CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22	PAGE 48 of 114	FINAL
		1	1	
0000CE		5/18/2016 0/30/2017		

9000CF	5/18/2016 - 9/30/2017
9000CH	11/17/2016 - 11/16/2017
9000CJ	5/18/2016 - 9/1/2017
9000CK	5/18/2016 - 9/1/2017
9000CM	5/18/2016 - 9/1/2017
9000CS	8/12/2016 - 9/1/2017
9000CT	5/18/2016 - 9/1/2017
9000CY	5/19/2016 - 12/31/2017
9000CZ	5/19/2016 - 5/18/2018
9000DD	9/2/2016 - 6/30/2018
9000DE	5/20/2016 - 9/17/2017
9000DJ	5/20/2016 - 9/1/2017
9000DK	9/16/2016 - 9/1/2017
9000DL	7/2/2016 - 7/1/2017
9000DM	9/2/2016 - 9/1/2017
9000DR	9/2/2016 - 9/1/2017
9000DU	9/2/2016 - 9/1/2017
9000DY	9/2/2016 - 9/30/2017
9000DZ	9/2/2016 - 9/1/2017
9000EC	9/2/2016 - 9/1/2017
9000ED	9/2/2016 - 6/1/2018
9000EF	9/2/2016 - 9/1/2018
9000EH	9/2/2016 - 9/30/2017
9000EL	9/2/2016 - 9/1/2017
9000EM	9/2/2016 - 9/1/2017
9000EN	9/2/2016 - 9/1/2017
9000EP	9/2/2016 - 9/30/2017
9000EQ	9/2/2016 - 9/1/2017
9000ES	9/2/2016 - 12/31/2017
9000ET	9/2/2016 - 9/1/2019
9000EU	9/2/2016 - 9/1/2017
9000EV	9/2/2016 - 9/1/2017
9000EW	8/15/2016 - 11/30/2016
9000EX	9/2/2016 - 9/1/2017
9000EZ	11/16/2016 - 11/15/2017
9000FB	11/16/2016 - 11/15/2017
9000FD	11/16/2016 - 11/15/2017
9000FF	11/16/2016 - 11/15/2017
9000FG	11/23/2016 - 11/22/2017
9000FJ	11/17/2016 - 9/1/2018
9000FM	7/26/2017 - 9/1/2018
9000FP	11/17/2016 - 9/1/2017
9000FQ	2/6/2017 - 3/31/2018

CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1,00170 0.1 2 1000	1100170 01 2 1000 21100	1
9000FR	,	2/6/2017 - 9/1/2019
9000FK 9000FS		2/6/2017 - 9/1/2019 2/6/2017 - 9/1/2019
		2/0/2017 - 9/1/2019 11/22/2016 - 9/1/2017
9000FT		11/22/2016 - 9/1/2017 11/22/2016 - 9/1/2018
9000FX 9000GB		2/8/2017 - 2/7/2018
9000GB 9000GC		
		1/12/2017 - 9/1/2018 1/12/2017 - 9/1/2018
9000GE 9000GG		2/8/2017 - 2/7/2018
9000GJ		2/8/2017 - 2/7/2018
9000GL 9000GM		2/6/2017 - 9/1/2018 7/26/2017 - 9/1/2018
9000GR		2/9/2017 - 9/1/2018
9000GS		2/9/2017 - 9/1/2018
9000GT		2/9/2017 - 6/30/2018
9000GV		2/6/2017 - 9/30/2017
9000GW		2/8/2017 - 2/7/2018 2/8/2017 - 2/7/2018
9000GZ		
9000HD		7/26/2017 - 9/30/2018
9000HE		6/2/2017 - 6/1/2018
9000HF		6/2/2017 - 6/1/2018
9000HJ		6/2/2017 - 6/1/2018
9000HK 9000HL		6/2/2017 - 6/1/2018 6/2/2017 - 6/1/2018
		6/2/2017 - 6/1/2018 6/2/2017 - 6/1/2018
9000HU		6/2/2017 - 6/1/2018
9000HV 9000HW		
		6/2/2017 - 6/1/2018 6/2/2017 - 6/1/2018
9000HX 9000HY		6/2/2017 - 6/1/2018
9000H I 9000HZ		6/2/2017 - 6/1/2018 6/2/2017 - 6/1/2018
9000HZ 9000JA		5/23/2017 - 5/22/2018
9000JA 9000JB		6/2/2017 - 6/1/2018
9000JE		8/2/2017 - 8/1/2018 8/2/2017 - 8/1/2018
9000JE 9000JG		8/2/2017 - 8/1/2018 8/2/2017 - 8/1/2018
9000JK		8/2/2017 - 8/1/2018 8/2/2017 - 8/1/2018
9000JP		8/2/2017 - 8/1/2018 8/2/2017 - 8/1/2018
9000JV		9/28/2017 - 9/1/2018
		11/15/2017 - 9/1/2018 11/15/2017 - 11/14/2018
9000KF 9000KG		11/15/2017 - 11/14/2018 11/15/2017 - 9/1/2018
9000KG 9000KK		11/13/2017 - 9/1/2018 11/13/2017 - 11/12/2018
9000KK 9000KM		11/13/2017 - 11/12/2018 11/16/2017 - 9/1/2019
		11/16/2017 - 9/1/2019 11/16/2017 - 9/1/2018
9000KN		
9000KP		11/16/2017 - 9/1/2018

11/16/2017 - 9/1/2019

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22	PAGE 50 of 114	FINAL
9000KU	1	11/21/2017 - 9/1/2019		
9000KW	1	11/23/2017 - 9/1/2019		
9000KZ	2	2/10/2018 - 9/1/2018		
9000LE		7/2/2018 - 7/1/2019		
9000LF	4	5/4/2018 - 9/1/2018		
9000LN	7	7/18/2018 - 9/1/2019		
9000LP	7	7/11/2018 - 9/1/2019		
9000LT	7	7/2/2018 - 7/1/2019		
9000LX	Ç	9/10/2018 - 9/1/2019		
9000LZ	Ç	9/10/2018 - 9/1/2019		
9000MB	Ģ	9/19/2018 - 9/1/2019		

# CLIN - DELIVERIES OR PERFORMANCE

The periods of performance for the following firm items are from date of task order award through 12 months thereafter, estimated at:

7000AA	3/24/2016 - 9/1/2019
7000AB	6/1/2016 - 5/31/2017
7000AC	3/24/2016 - 3/23/2017
7000AD	3/24/2016 - 3/23/2017
7000AE	3/24/2016 - 3/23/2017
7000AF	3/24/2016 - 3/23/2017
7000AG	3/24/2016 - 3/23/2017
7000AH	3/24/2016 - 3/23/2017
7000AJ	3/24/2016 - 3/23/2017
7000AK	3/24/2016 - 3/23/2017
7000AL	3/24/2016 - 3/23/2017
7000AM	3/24/2016 - 3/23/2017
7000AN	3/24/2016 - 3/23/2017
7000AP	3/24/2016 - 3/23/2017
7000AQ	3/31/2016 - 9/1/2017
7000AR	3/31/2016 - 9/1/2017
7000AS	3/31/2016 - 9/1/2017
7000AT	3/31/2016 - 9/1/2017
7000AU	3/31/2016 - 9/1/2017
7000AV	3/31/2016 - 9/1/2017
7000AW	3/31/2016 - 9/1/2017
7000AX	3/31/2016 - 9/30/2017
7000AY	3/31/2016 - 9/30/2017
7000AZ	3/31/2016 - 9/1/2017
7000BB	3/31/2016 - 9/1/2017

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1100170 01 B 1030	THOUTPOUT D 1000 EITOO	122
=000F G		
7000BC		3/31/2016 - 9/1/2017
7000BD		3/31/2016 - 9/1/2017
7000BE		4/6/2016 - 9/1/2018
7000BF		4/6/2016 - 9/1/2017
7000BH		4/6/2016 - 9/1/2017
7000BJ		4/6/2016 - 9/1/2017
7000BK		3/29/2016 - 9/1/2017
7000BL		3/29/2016 - 12/31/2017
7000BM		3/30/2016 - 9/1/2017
7000BN		4/1/2016 - 3/30/2017
7000BP		4/1/2016 - 3/30/2017
7000BQ		3/24/2016 - 3/23/2017
7000BR		4/1/2016 - 9/1/2017
7000BS		4/6/2016 - 4/5/2017
7000BT		3/29/2016 - 12/31/2017
7000BV		7/2/2016 - 7/1/2017
7000BW		7/2/2016 - 7/1/2017
7000BX		7/2/2016 - 7/1/2017
7000BY		7/2/2016 - 7/1/2017
7000BZ		7/2/2016 - 7/1/2017
7000CA		7/2/2016 - 7/1/2017
7000CB		7/2/2016 - 7/1/2017
7000CC		7/2/2016 - 7/1/2017
7000CD		7/2/2016 - 7/1/2017
7000CE		7/2/2016 - 7/1/2017
7000CF		5/18/2016 - 9/1/2017
7000CG		6/2/2016 - 9/30/2017
7000CH		5/18/2016 - 9/1/2017
7000CJ		5/18/2016 - 9/1/2017
7000CK		5/18/2016 - 9/1/2017
7000CL		5/18/2016 - 9/1/2017
7000CM		5/18/2016 - 9/1/2017
7000CN		5/18/2016 - 9/1/2017
7000CP		5/18/2016 - 9/1/2017
7000CQ		5/18/2016 - 9/30/2017
7000CR		5/18/2016 - 9/30/2017
7000CS		5/18/2016 - 9/30/2017
7000CT		5/18/2016 - 9/1/2017
7000CU		6/19/2016 - 9/1/2017
7000CV		6/19/2016 - 9/1/2017
7000CW		6/19/2016 - 9/1/2017
7000CX		7/2/2016 - 7/1/2017

5/19/2016 - 9/17/2017

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1100170 04 B 4030	1100170 04 D 4030 E1100	122
<b>5</b> 000 <b>0</b> 7		E (10/001 c 0 (15/0015
7000CZ		5/19/2016 - 9/17/2017
7000DA		5/19/2016 - 9/17/2017
7000DB		5/19/2016 - 2/1/2018
7000DC		5/19/2016 - 6/30/2018
7000DD		9/2/2016 - 6/30/2018
7000DE		5/20/2016 - 9/1/2017
7000DF		5/20/2016 - 9/1/2017
7000DG		7/2/2016 - 7/1/2017
7000DH		7/2/2016 - 7/1/2017
7000DJ		5/20/2016 - 9/1/2017
7000DK		9/16/2016 - 9/1/2017
7000DL		9/2/2016 - 9/1/2017
7000DM		9/2/2016 - 9/1/2017
7000DN		9/1/2016 - 8/31/2017
7000DP		9/2/2016 - 9/1/2017
7000DQ		9/2/2016 - 9/1/2017
7000DR		9/2/2016 - 9/1/2017
7000DS		9/2/2016 - 9/1/2017
7000DT		9/2/2016 - 9/1/2017
7000DU		9/2/2016 - 9/1/2017
7000DV		9/2/2016 - 9/1/2017
7000DW		9/2/2016 - 9/1/2017
7000DX		9/2/2016 - 9/1/2017
7000DY		9/2/2016 - 9/30/2017
7000DZ		9/2/2016 - 9/1/2017
7000EA		9/2/2016 - 9/1/2017
7000EB		9/2/2016 - 9/1/2017
7000EC		9/2/2016 - 9/1/2017
7000ED		9/2/2016 - 6/1/2018
7000EE		9/2/2016 - 9/1/2018
7000EF		9/2/2016 - 9/1/2018
7000EG		9/2/2016 - 6/30/2019
7000EH		9/2/2016 - 9/30/2017
7000EJ		9/2/2016 - 5/31/2018
7000EK		9/2/2016 - 5/31/2018
7000EL		9/2/2016 - 9/1/2017
7000EM		9/2/2016 - 9/1/2017
7000EN		9/2/2016 - 9/1/2017
7000EP		9/2/2016 - 9/30/2017
7000EQ		9/2/2016 - 9/1/2017
7000ER		9/2/2016 - 9/1/2017

9/2/2016 - 12/31/2017

9/2/2016 - 9/1/2019

7000ES

7000ET

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
	•	
7000EU		9/2/2016 - 9/1/2017
7000EV		9/2/2016 - 9/1/2017
7000EV 7000EW		8/15/2016 - 11/30/2016
7000EW 7000EX		9/2/2016 - 9/1/2017
7000EX 7000EZ		11/16/2016 - 11/15/2017
7000E2 7000FA		11/16/2016 - 11/15/2017
7000FB		11/16/2016 - 11/15/2017
7000FC		11/16/2016 - 9/1/2017
7000FD		11/16/2016 - 11/15/2017
7000FE		11/16/2016 - 9/1/2017
7000FF		11/16/2016 - 11/15/2017
7000FG		11/23/2016 - 11/22/2017
7000FH		11/17/2016 - 9/1/2018
7000FJ		11/17/2016 - 9/1/2017
7000FK		11/17/2016 - 11/16/2017
7000FL		11/17/2016 - 9/1/2018
7000FM		11/17/2016 - 9/30/2018
7000FN		11/16/2016 - 9/1/2017
7000FP		11/17/2016 - 9/1/2017
7000FQ		11/22/2016 - 3/31/2018
7000FR		11/22/2016 - 9/1/2019
7000FS		11/22/2016 - 9/1/2019
7000FT		11/22/2016 - 12/31/2017
7000FU		11/22/2016 - 9/1/2017
7000FV		11/22/2016 - 9/1/2017
7000FW		11/22/2016 - 9/1/2018
7000FX		11/22/2016 - 9/1/2018
7000FY		11/28/2016 - 9/1/2017
7000FZ		11/17/2016 - 9/1/2017
7000GA		11/23/2016 - 9/1/2017
7000GB		12/1/2016 - 11/30/2017
7000GC		1/12/2017 - 9/1/2018
7000GD		1/13/2017 - 9/1/2017
7000GE		1/12/2017 - 9/1/2018
7000GF		1/13/2017 - 1/12/2018
7000GG		2/8/2017 - 2/7/2018
7000GH		2/8/2017 - 2/7/2018
7000GJ		2/8/2017 - 2/7/2018
7000GK		2/8/2017 - 2/7/2018
7000GL		2/6/2017 - 9/1/2018
7000CM		2/0/2017 0/1/2019

2/9/2017 - 9/1/2018

2/9/2017 - 9/1/2018

2/9/2017 - 5/31/2018

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7000GN

7000GP

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1100170 04 D 4030	1100170 04 D 4030 Elloo	
700000		0/0/2017 0/20/2010
7000GQ		2/9/2017 - 2/28/2018
7000GR		2/9/2017 - 9/1/2018
7000GS		2/9/2017 - 9/1/2018
7000GT		2/9/2017 - 6/30/2018
7000GU		2/8/2017 - 9/1/2018
7000GV		2/6/2017 - 9/30/2017
7000GW		2/8/2017 - 2/7/2018
7000GX		2/8/2017 - 9/1/2017
7000GY		2/8/2017 - 2/7/2018
7000GZ		2/8/2017 - 2/7/2018
7000HA		2/16/2017 - 2/15/2018
7000HB		2/8/2017 - 2/7/2018
7000HC		2/8/2017 - 2/7/2018
7000HD		2/9/2017 - 9/30/2018
7000HE		6/2/2017 - 6/1/2018
7000HF		6/2/2017 - 6/1/2018
7000НЈ		6/2/2017 - 6/1/2018
7000HK		6/2/2017 - 6/1/2018
7000HL		6/2/2017 - 6/1/2018
7000HM		6/2/2017 - 6/1/2018
7000HP		5/17/2017 - 9/1/2018
7000HQ		5/17/2017 - 9/1/2018
7000HR		5/18/2017 - 9/1/2018
7000HS		6/2/2017 - 6/1/2018
7000HT		5/17/2017 - 9/1/2018
7000HU		6/2/2017 - 6/1/2018
7000HV		6/2/2017 - 6/1/2018
7000HW		6/2/2017 - 6/1/2018
7000HX		6/2/2017 - 6/1/2018
7000HY		6/2/2017 - 6/1/2018
7000JA		5/23/2017 - 5/22/2018
7000JB		6/2/2017 - 6/1/2018
7000JC		8/2/2017 - 8/1/2018
7000JD		8/2/2017 - 8/1/2018
7000JE		8/2/2017 - 8/1/2018
7000JF		8/2/2017 - 8/1/2018
7000JG		8/2/2017 - 8/1/2018
7000JH		8/2/2017 - 8/1/2018
7000JJ		8/2/2017 - 8/1/2018
7000JK		8/2/2017 - 8/1/2018
7000JL		8/2/2017 - 8/1/2018
7000JM		8/2/2017 - 8/1/2018
7000JN		8/2/2017 - 8/1/2018

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1100170 04 B 4030	1100170 04 D 4030 E1100	
7000ID		9/3/3017 9/1/3019
7000JP		8/2/2017 - 8/1/2018 8/2/2017 - 8/1/2018
7000JQ 7000JR		7/25/2017 - 9/1/2018
7000JK 7000JS		7/25/2017 - 9/1/2018
7000JT		9/1/2017 - 8/31/2018
7000JU		9/28/2017 - 9/1/2018
7000JV		9/28/2017 - 9/1/2018
7000JW		9/28/2017 - 9/1/2018
7000JX		9/28/2017 - 9/1/2018
		9/28/2017 - 9/1/2018
7000JY		
7000JZ 7000KA		9/2/2018 - 9/1/2019 9/28/2017 - 9/1/2018
		9/28/2017 - 9/1/2018
7000KB 7000KC		
7000KC 7000KD		9/28/2017 - 9/1/2018 9/28/2017 - 9/1/2018
7000KE		9/29/2017 - 9/1/2018 11/15/2017 - 11/14/2018
7000KF 7000KG		11/15/2017 - 11/14/2018
7000KH		11/15/2017 - 9/1/2018 11/13/2017 - 9/1/2018
7000KJ		
7000KK		11/13/2017 - 11/12/2018
7000KL		11/16/2017 - 9/1/2019
7000KM 7000KN		11/16/2017 - 9/1/2019 11/16/2017 - 9/1/2018
7000KP		11/16/2017 - 9/1/2018 11/16/2017 - 9/1/2019
7000KQ 7000KR		11/16/2017 - 9/1/2019
7000KS		11/16/2017 - 12/31/2018
7000KS 7000KT		11/16/2017 - 9/1/2019
7000KU		11/21/2017 - 9/1/2019
7000KV		11/23/2017 - 1/31/2019
7000KV 7000KW		11/23/2017 - 1/31/2019
7000KW		11/20/2017 - 9/1/2019
7000KY		2/10/2018 - 9/1/2018
7000KT 7000KZ		2/10/2018 - 9/1/2018 2/10/2018 - 9/1/2018
7000KZ 7000LB		2/10/2018 - 9/1/2018
7000LG 7000LC		3/29/2018 - 9/1/2018
7000LC 7000LD		3/29/2018 - 9/1/2018
7000LE		5/4/2018 - 5/3/2019 5/4/2018 - 9/1/2018
7000LF		5/4/2018 - 9/1/2018
7000LG		7/2/2018 - 7/1/2019
7000LH		7/2/2018 - 7/1/2019
7000LJ		7/2/2018 - 7/1/2019

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CONTRACT NO.	DELIVERY ORDER NO.	AMENDMENT/MODIFICATION NO.
N00178-04-D-4030	N00178-04-D-4030-EH08	22
7000LK		7/2/2018 - 7/1/2019
7000LM		7/2/2018 - 7/1/2019
7000LN		7/11/2018 - 9/1/2019
7000LP		7/11/2018 - 9/1/2019
7000LQ		7/11/2018 - 9/1/2019
7000LR		7/2/2018 - 7/1/2019
7000LS		7/2/2018 - 7/1/2019
7000LT		7/2/2018 - 7/1/2019
7000LU		7/16/2018 - 7/15/2019
7000LV		7/16/2018 - 7/15/2019
7000LW		9/5/2018 - 9/1/2019
7000LX		9/10/2018 - 9/1/2019
7000LY		9/10/2018 - 9/1/2019
7000LZ		9/10/2018 - 9/1/2019
7000MA		9/10/2018 - 9/1/2019
7000MB		9/19/2018 - 9/1/2019
7000MC		9/19/2018 - 9/1/2019
7000MD		9/19/2018 - 9/1/2019
7000ME		9/19/2018 - 9/1/2019
7000MF		9/19/2018 - 9/1/2019
7000MG		9/19/2018 - 9/1/2019
7000MH		9/19/2018 - 9/1/2019
7000MJ		9/19/2018 - 9/1/2019
7000MK		9/19/2018 - 9/1/2019
7000ML		9/19/2018 - 9/1/2019
7000MM		9/19/2018 - 9/1/2019
7000MN		9/19/2018 - 9/1/2019
7000MP		9/17/2018 - 9/1/2019
7000MQ		11/29/2018 - 9/1/2019
7000MR		11/29/2018 - 9/1/2019
7000MS		11/29/2018 - 9/1/2019
7000MT		11/29/2018 - 9/1/2019
7000MU		11/29/2018 - 9/1/2019
7000MV		12/4/2018 - 9/1/2019
7000MW		12/4/2018 - 9/1/2019
9000AA		3/24/2016 - 9/1/2019
9000AB		3/24/2016 - 3/23/2017
9000AC		3/24/2016 - 3/23/2017
9000AD		3/24/2016 - 3/23/2017
9000AL		3/24/2016 - 3/23/2017
9000AM		3/24/2016 - 3/23/2017
9000AS		3/31/2016 - 9/1/2017
0000 A V		3/31/2016 0/1/2017

3/31/2016 - 9/1/2017

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
1100170-04-D-4030	100170-04-D-4030-L1100	22
9000AW		3/31/2016 - 9/1/2017
9000AX		3/31/2016 - 9/30/2017
9000AZ		3/31/2016 - 9/1/2017
9000BA		3/31/2016 - 9/1/2017
9000BD		3/31/2016 - 9/1/2017
9000BJ		4/6/2016 - 9/1/2017
9000BM		3/30/2016 - 9/1/2017
9000BN		4/1/2016 - 3/30/2017
9000BQ		3/24/2016 - 3/23/2017
9000BU		3/29/2016 - 6/30/2018
9000BV		7/2/2016 - 7/1/2017
9000BX		7/2/2016 - 7/1/2017
9000CA		7/2/2016 - 7/1/2017
9000CE		7/2/2016 - 7/1/2017
9000CF		5/18/2016 - 9/30/2017
9000CH		11/17/2016 - 11/16/2017
9000CJ		5/18/2016 - 9/1/2017
9000CK		5/18/2016 - 9/1/2017
9000CM		5/18/2016 - 9/1/2017
9000CS		8/12/2016 - 9/1/2017
9000CT		5/18/2016 - 9/1/2017
9000CY		5/19/2016 - 12/31/2017
9000CZ		5/19/2016 - 5/18/2018
9000DD		9/2/2016 - 6/30/2018
9000DE		5/20/2016 - 9/17/2017
9000DJ		5/20/2016 - 9/1/2017
9000DK		9/16/2016 - 9/1/2017
9000DL		7/2/2016 - 7/1/2017
9000DM		9/2/2016 - 9/1/2017
9000DR		9/2/2016 - 9/1/2017
9000DU		9/2/2016 - 9/1/2017
9000DY		9/2/2016 - 9/30/2017
9000DZ		9/2/2016 - 9/1/2017
9000EC		9/2/2016 - 9/1/2017
9000ED		9/2/2016 - 6/1/2018
9000EF		9/2/2016 - 9/1/2018
9000EH		9/2/2016 - 9/30/2017
9000EL		9/2/2016 - 9/1/2017
9000EM		9/2/2016 - 9/1/2017
9000EN		9/2/2016 - 9/1/2017
9000EP		9/2/2016 - 9/30/2017
9000EQ		9/2/2016 - 9/1/2017
9000ES		9/2/2016 - 12/31/2017

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22
	•	
9000ET		9/2/2016 - 9/1/2019
9000EU		9/2/2016 - 9/1/2017
9000EV		9/2/2016 - 9/1/2017
9000EW		8/15/2016 - 11/30/2016
9000EX		9/2/2016 - 9/1/2017
9000EZ		11/16/2016 - 11/15/2017
9000FB		11/16/2016 - 11/15/2017
9000FD		11/16/2016 - 11/15/2017
9000FF		11/16/2016 - 11/15/2017
9000FG		11/23/2016 - 11/22/2017
9000FJ		11/17/2016 - 9/1/2018
9000FM		7/26/2017 - 9/1/2018
9000FP		11/17/2016 - 9/1/2017
9000FQ		2/6/2017 - 3/31/2018
9000FR		2/6/2017 - 9/1/2019
9000FS		2/6/2017 - 9/1/2019
9000FT		11/22/2016 - 9/1/2017
9000FX		11/22/2016 - 9/1/2018
9000GB		2/8/2017 - 2/7/2018
9000GC		1/12/2017 - 9/1/2018
9000GE		1/12/2017 - 9/1/2018
9000GG		2/8/2017 - 2/7/2018
9000GJ		2/8/2017 - 2/7/2018
9000GL		2/6/2017 - 9/1/2018
9000GM		7/26/2017 - 9/1/2018
9000GR		2/9/2017 - 9/1/2018
9000GS		2/9/2017 - 9/1/2018
9000GT		2/9/2017 - 6/30/2018
9000GV		2/6/2017 - 9/30/2017
9000GW		2/8/2017 - 2/7/2018
9000GZ		2/8/2017 - 2/7/2018
9000HD		7/26/2017 - 9/30/2018
9000HE		6/2/2017 - 6/1/2018
9000HF		6/2/2017 - 6/1/2018
9000HJ		6/2/2017 - 6/1/2018
9000HK		6/2/2017 - 6/1/2018
9000HL		6/2/2017 - 6/1/2018
9000HU		6/2/2017 - 6/1/2018
9000HV		6/2/2017 - 6/1/2018
9000HW		6/2/2017 - 6/1/2018
9000HX		6/2/2017 - 6/1/2018
9000HY		6/2/2017 - 6/1/2018
9000HZ		6/2/2017 - 6/1/2018

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CONTRACT NO. N00178-04-D-4030	DELIVERY ORDER NO. N00178-04-D-4030-EH08	AMENDMENT/MODIFICATION NO. 22	PAGE 59 of 114	FINAL
9000JA		5/23/2017 - 5/22/2018		
9000JB		6/2/2017 - 6/1/2018		
9000JE		8/2/2017 - 8/1/2018		
9000JG		8/2/2017 - 8/1/2018		
9000JK		8/2/2017 - 8/1/2018		
9000JP		8/2/2017 - 8/1/2018		
9000JV		9/28/2017 - 9/1/2018		
9000KF		11/15/2017 - 11/14/2018		
9000KG		11/15/2017 - 9/1/2018		
9000KK		11/13/2017 - 11/12/2018		
9000KM		11/16/2017 - 9/1/2019		
9000KN		11/16/2017 - 9/1/2018		
9000KP		11/16/2017 - 9/1/2018		
9000KS		11/16/2017 - 9/1/2019		
9000KU		11/21/2017 - 9/1/2019		
9000KW		11/23/2017 - 9/1/2019		
9000KZ		2/10/2018 - 9/1/2018		
9000LE		7/2/2018 - 7/1/2019		
9000LF		5/4/2018 - 9/1/2018		
9000LN		7/18/2018 - 9/1/2019		
9000LP		7/11/2018 - 9/1/2019		
9000LT		7/2/2018 - 7/1/2019		
9000LX		9/10/2018 - 9/1/2019		
9000LZ		9/10/2018 - 9/1/2019		
9000MB		9/19/2018 - 9/1/2019		
	9000JA 9000JB 9000JE 9000JG 9000JK 9000JP 9000JV 9000KF 9000KG 9000KM 9000KN 9000KP 9000KS 9000KU 9000KU 9000KZ 9000LF 9000LF 9000LF 9000LT 9000LX 9000LZ	N00178-04-D-4030   N00178-04-D-4030-EH08	N00178-04-D-4030   N00178-04-D-4030-EH08   22	N00178-04-D-4030   N00178-04-D-4030-EH08   22   59 of 114

The period of performance for the following option items are from date of option exercise through 12 months thereafter, estimated at:

The period of performance for the following award-term items are from date of option exercise through 12 months thereafter, estimated at:

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Services to be performed hereunder will be provided primarily at the Washington Navy Yard, in the metropolitan District of Columbia area, and NAVSEA field activities, as well as ships at sea.

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# SECTION G CONTRACT ADMINISTRATION DATA

OMBUDSMAN (NAVSEA AND OVERARCHING) PROCURING CONTRACTING OFFICER (PCO)

PURCHASE OFFICE REPRESENTATIVE (POR)\*

**CONTRACTING OFFEICER'S REPRESENTATIVE (COR)** 

ALTERNATE CONTRACTING OFFEICER'S REPRESENTATIVE (COR)

CONTRACT NO.	DELIVERY ORDER NO.	AMENDMENT/MODIFICATION NO.	PAGE	FINAL
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# HQ G-2-0007 INVOICE INSTRUCTIONS (NAVSEA) (JAN 2008)

- (a) In accordance with the clause of this contract entitled "ELECTRONIC SUBMISSION OF PAYMENT REQUESTS" (DFARS 252.232-7003), the Naval Sea Systems Command (NAVSEA) will utilize the DoD Wide Area Workflow Receipt and Acceptance (WAWF) system to accept supplies/services delivered under this contract. This web-based system located at <a href="https://wawf.eb.mil">https://wawf.eb.mil</a> provides the technology for government contractors and authorized Department of Defense (DoD) personnel to generate, capture and process receipt and payment-related documentation in a paperless environment. Invoices for supplies/services rendered under this contract shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices may no longer be accepted for payment.
- (b) It is recommended that the person in your company designated as the Central Contractor Registration (CCR) Electronic Business (EB) Point of Contact and anyone responsible for the submission of invoices, use the online training system for WAWF at <a href="http://wawftraining.com">http://wawftraining.com</a>. 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 <a href="http://acquisition.navy.mil/navyaos/content/view/full/3521/">http://acquisition.navy.mil/navyaos/content/view/full/3521/</a>. The most useful guides are "Getting Started for Vendors" and "WAWF Vendor Guide".
- (c) The designated CCR EB point of contact is responsible for activating the company's CAGE code on WAWF by calling 1-866-618-5988. Once the company is activated, the CCR EB point of contact will self-register under the company's CAGE code on WAWF and follow the instructions for a group administrator. After the company is set-up on WAWF, any additional persons responsible for submitting invoices must self-register under the company's CAGE code at <a href="https://wwwf.eb.mil">https://wwwf.eb.mil</a>.
- (d) The contractor shall use the following document types, DODAAC codes and inspection and acceptance locations when submitting invoices in WAWF:

acceptance locations when submitting invoices i	in WAWF:
Type of Document (contracting officer of	check all that apply)
Invoice (FFP Supply & Service)	
Invoice and Receiving Report Cor	mbo (FFP Supply)
Invoice as 2-in-1 (FFP Service On	ıly)
Cost Voucher (Cost Reimbursable	e, T&M , LH, or FPI)
Receiving Report (FFP, DD250 O	only)
DODAAC Codes and Inspection and Ac	ceptance Locations (contracting officer complete
appropriate information as applicable)	
Issue DODAAC	
Admin DODAAC	
Pay Office DODAAC	
Inspector DODAAC	
Service Acceptor DODAAC	
Service Approver DODAAC	
Ship To DODAAC	N00024
DCAA Auditor DODAAC	
LPO DODAAC	
Inspection Location	N00024

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### Acceptance Location

#### N00024

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

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

# **Send Additional Email Notification To:**

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

Accounting Data

SLINID PR Number	Amount
7000AB 130055955900001	2980814.00
LLA : AA 1761804 8U5N 251 V5S00 0 050120 2D 000000 A00003351561	
7000AC 130055956000001	141600.00
AB 1761804 8B2B 251 V5H00 0 050120 2D 000000 A00003351914	
7000AD 130055956000003	663315.00
AC 1761804 8B2B 251 V5H00 0 050120 2D 000000 A10003351914	
7000AE 130055956000005	170000.00
AD 1761804 8B4B 251 V5Z00 0 050120 2D 000000 A20003351914	
7000AF 130055956000006	35700.00
AE 1761804 8B4B 251 V5Z00 0 050120 2D 000000 A30003351914	
7000AG 130055956000015	10875.00
LLA : AF 1761804 8B2B 251 V5H00 0 050120 2D 000000 A90003351914	

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7000AH 130055956000016	36750.00
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7000AJ 130055956000017 LLA:	41700.00
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7000AK 130055956000018 LLA:	10675.00
AJ 1761804 8J2H 251 V5C00 0 050120 2D 000000 B20003351914	
7000AL 130055956000009 LLA:	845248.00
AL 1761804 8B5B 251 S3251 0 050120 2D 000000 A50003351914	0.45000 00
7000AM 130055956000011 LLA: AM 1761804 8B5B 251 S3251 0 050120 2D 000000 A60003351914	247300.00
7000AN 130055956000013	142231.00
LLA : AN 1761804 8C6C 251 S3251 0 050120 2D 000000 A70003351914	11001100
7000AP 130055956000014	121082.00
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7000AQ 130055966300001	124000.00
LLA : AQ 1761319 84TX 251 V5T00 0 050120 2D 000000 A00003351501	
7000AR 130055966300002 LLA:	274000.00
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7000AS 130055966300003 LLA:	188400.00
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7000AT 130055966300005 LLA:	335000.00
AT 1761319 84TX 251 V5T00 0 050120 2D 000000 A30003351501	
7000AU 130055966300006 LLA:	484623.00
AU 1761319 84TA 251 V5H00 0 050120 2D 000000 A40003351501 7000AV 130055966300008	96050.00
LLA : AV 1761319 84TA 255 V5H00 0 050120 2D 000000 A60003351501	30000.00
7000AW 130055966300007	97350.00
LLA : AW 1761319 84TA 255 V5H00 0 050120 2D 000000 A50003351501	
7000AX 130055966300011	300582.00
LLA : AX 1761319 64PF 251 CV378 0 050120 2D 000000 A70003351501	
7000AY 130055966300013 LLA:	100000.00
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7000AZ 130055966300014 LLA:	74000.00
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7000BB 130055966300023 LLA:	337500.00

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DG 17(1210 GATD 051 04VGG 0 050100 0D 000000 D70002351501	
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7000BC 130055966300020 LLA:	160000.00
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7000BD 130055966300021 LLA:	199000.00
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7000BE 130055972000001	520000.00
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7000BF 130055972000002	354000.00
LLA : BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896	
7000BH 130055972000005	143175.00
LLA : BH 1751611 1227 251 SH500 0 050120 2D 000000 A30003351896	
	200000 00
7000BJ 130055972000006 LLA:	300000.00
BJ 1751611 1589 251 SH377 0 050120 2D 000000 A40003351896	
7000BK 130055981300001 LLA:	200000.00
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7000BL 130055981300003 LLA:	1000000.00
BL 17X4557 8S40 255 S3850 0 050120 2D 000000 A20003352403	
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LLA : BN 1741810 146C 251 SH325 0 050120 2D 000000 A00003353972	
7000BN 130055977900001	59000.00
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7000BP 130055977900003	247500.00
LLA : BQ 1761804 52FA 251 00052 0 068732 2D C001IN 605146PR453Q	217000.00
	400000
7000BQ 130055956000007 LLA:	430000.00
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7000BR 130055977900004 LLA:	150000.00
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7000BS 130056151600001 LLA:	244106.00
BS 97-11X8242 PPR4 251 V1C00 0 050120 2D 000000 A00003364844	
7000BT N0002416MR55222	233506.00
LLA : BT 1771811 1599 251 WAWJH 0 068342 2D 000000 105445000000	
9000AB 130055955900002	19186.00
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9000AC 130055956000002	2400.00
LLA : AB 1761804 8B2B 251 V5H00 0 050120 2D 000000 A00003351914	

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9000AD 130055956000004	7500.00
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9000AM 130055956000012	12500.00
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9000AS 130055966300004 LLA:	3000.00
AS 1761319 84TX 251 V5T00 0 050120 2D 000000 A20003351501	
9000AV 130055966300009 LLA:	6000.00
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9000AW 130055966300010 LLA:	4000.00
AW 1761319 84TA 255 V5H00 0 050120 2D 000000 A50003351501	
9000AX 130055966300012 LLA:	6000.00
AY 1761319 64PF 251 CV378 0 050120 2D 000000 A80003351501	
9000AZ 130055966300015	3000.00
LLA : BA 1761319 C4LC 251 24VCS 0 050120 2D 000000 B00003351501	
9000BA 130055966300016	3000.00
LLA : BB 1761319 C4NV 251 24VCS 0 050120 2D 000000 B10003351501	
9000BD 130055966300022	1000.00
LLA : BE 1761319 15YV 251 SH377 0 050120 2D 000000 B60003351501	
9000BJ 130055972000007	14000.00
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LLA : BN 1741810 146C 251 SH325 0 050120 2D 000000 A00003353972	
9000BN 130055977900002	5000.00
LLA : BP 1761804 60CA 251 00060 W 068732 2D C00112 465796N7571Q	
9000BQ 130055956000008	5000.00
LLA : AK 1761804 8B4B 233 V5Z00 0 050120 2D 000000 A40003351914	
9000BU 130055981300002	200000.00
LLA : BM 17X4557 8S40 255 S3850 0 050120 2D 000000 A30003352403	
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Cumulative Funding 12763466.00	
MOD 01	10100 00
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	450545 00
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AX 1761319 64PF 251 CV378 0 050120 2D 000000 A70003351501	
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7000BV 130055956000022 LLA:	490000.00
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7000BW 130055956000024 LLA:	133900.00
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7000BX 130055956000025	113957.00
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7000BY 130057230800001	189425.00
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7000BZ 130057230800002	6475.00
LLA : BV 1761804 8T5M 251 V5H00 0 050120 2D 000000 A10003451199	
7000CA 130057230800003	385000.00
LLA : BW 1761804 8B4B 251 V5Z00 0 050120 2D 000000 A20003451199	
7000CB 130057230800005	13000.00
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7000CC 130057230800006	72000.00
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7000CD 130057230800007	51000.00
LLA : BZ 1761804 8B5B 251 V5Z00 0 050120 2D 000000 A50003451199	
7000CE 130057230800008	315000.00
LLA :	313000.00
CA 1761804 8B5B 251 V5Z00 0 050120 2D 000000 A60003451199	50000 00
7000CF 130055966300025 LLA:	50000.00
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7000CG 130057262600008 LLA:	134000.00
CB 1761319 A5HA 251 WS020 0 050120 2D 000000 A60003453906	
7000CH 130055966300027 LLA:	197877.00
AU 1761319 84TA 251 V5H00 0 050120 2D 000000 A40003351501	
7000CJ 130055966300028 LLA:	143200.00
AV 1761319 84TA 255 V5H00 0 050120 2D 000000 A60003351501	
7000CK 130055966300030 LLA:	53750.00
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7000CL 130055966300031 LLA:	169200.00

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BA 1761319 C4LC 251 24VCS 0 050120 2D 000000 B00003351501	
7000CM 130055966300032 LLA:	215000.00
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7000CN 130057262600001 LLA:	87000.00
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7000CP 130057262600002 LLA:	60000.00
CE 1761319 A5XB 251 WS010 0 050120 2D 000000 A10003453906	
7000CQ 130057262600003 LLA:	237000.00
CF 1761319 A5XZ 251 WS100 0 050120 2D 000000 A20003453906	
7000CR 130057262600004	80000.00
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7000CS 130057262600005	7650000.00
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7000CT 130057262600006	111061.00
LLA: CJ 1761319 84TA 255 V5H00 0 050120 2D 000000 A50003453906	
7000CU 130057278100001	75000.00
LLA: CK 1761810 A2TC 251 WS020 0 050120 2D 000000 A00003454603	
7000CV 130057278100002	45000.00
LLA: CL 1751810 A2UC 251 WS060 0 050120 2D 000000 A10003454603	
7000CW 130057278100003	22500.00
LLA: CM 1761810 A1GW 251 WS060 0 050120 2D 000000 A20003454603	
7000CX 130057230800012	7500.00
LLA: EP 1761804 8C1C 251 WS060 0 050120 2D 000000 A80003451199	
7000CY 130057284500001	171250.00
LLA: CP 1751611 C281 251 24VCS 0 050120 2D 000000 A00003455919	
7000CZ 130057284500003	171250.00
LLA: CQ 1751611 C281 251 24VCS 0 050120 2D 000000 A10003455919	
7000DA 130057284500005	65000.00
LLA: CR 1751611 1589 251 SH377 0 050120 2D 000000 A20003455919	03000.00
	220000 00
7000DB 130057284500008 LLA:	220000.00
CS 1721611 1224 251 SH400 0 050120 2D 000000 A50003455919	C05000 00
7000DC 130057284500007 LLA:	695000.00
CT 1761611 1591 251 SH325 0 050120 2D 000000 A30003455919	
7000DD 130055981300006 LLA:	800000.00
BL 17X4557 8S40 255 S3850 0 050120 2D 000000 A10003352403	

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7000DE 130057302900001	231000.00
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7000DF 130057302900003 LLA:	194000.00
CV 1751319 E627 253 68876 C 068892 2D CK0032 688765D2531Q	
7000DG 130057302900004 LLA:	125000.00
CW 1761804 52FA 251 00052 0 068732 2D C001IN 000526PR403Q	122000 00
7000DH 130057302900005 LLA: CX 1761804 60CM 251 00065 068566 2D C0021B 000656N84180	132000.00
7000DJ 130057302900006	234198.00
LLA : CY 9740350 81BM 251 SH325 0 050120 2D 000000 A00003458160	
7000DK 130058369600001 LLA:	127000.00
CZ 97X4930 NH6B 251 77777 0 050120 2F 000000 A00003527563	
7000DL 130055956000020 LLA:	425000.00
AK 1761804 8B4B 233 V5Z00 0 050120 2D 000000 A40003351914	400000
7000DM 130055955900003 LLA: AA 1761804 8U5N 251 V5S00 0 050120 2D 000000 A00003351561	498800.00
7000DN 130059114900001	175000.00
LLA : DA 1761804 8B5B 251 CV312 0 050120 2D 000000 A50003576057	
7000DP 130059114900002 LLA:	44966.00
DB 1761804 8B5B 251 CV312 0 050120 2D 000000 A00003576057	
7000DQ 130059114900003 LLA:	34109.00
DC 1761804 8U5N 251 V5Z00 0 050120 2D 000000 A10003576057 7000DR 130059114900004	153023.00
LLA: DD 1761804 8B4B 251 24VCS 0 050120 2D 000000 A20003576057	153023.00
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LLA : DE 1761804 8B5B 251 24VCS 0 050120 2D 000000 A30003576057	
7000DT 130059114900007 LLA:	225000.00
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7000DU 130055966300036 LLA :	48000.00
AT 1761319 84TX 251 V5T00 0 050120 2D 000000 A30003351501 7000DV 130055966300039	48000.00
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7000DW 130055966300040	15000.00
LLA : AQ 1761319 84TX 251 V5T00 0 050120 2D 000000 A00003351501	
7000DX 130055966300043 LLA:	65000.00

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N00178-04-D-4030	N00178-04-D-4030-EH08	22	70 of 114	

DD 1751210 14DM 251 0H225 0 050120 2D 000000 D00002251501	
BD 1751319 14RM 251 SH325 0 050120 2D 000000 B80003351501	520000 00
7000DY 130055966300044 LLA:	530000.00
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GK 1751319 14RM 251 SH325 0 050120 2D 000000 A80003453906	
7000EA 130057262600012 LLA:	223220.00
DH 1761319 15YV 251 SH377 0 050120 2D 000000 A90003453906	
7000EB 130057262600013 LLA:	100000.00
DJ 1761319 84NP 251 V5405 0 050120 2D 000000 B00003453906	
7000EC 130055972000010 LLA:	235881.00
BJ 1751611 1589 251 SH377 0 050120 2D 000000 A40003351896	
7000ED 130059277100008	636000.00
LLA : DK 1721611 1388 251 SH377 0 050120 2D 000000 A50003584981	
7000EE 130057262600014	120000.00
LLA : DZ 1761319 86ED 251 V5SBI 0 050120 2D 000000 B10003453906	
7000EF 130059277100001	304500.00
LLA: DL 1731611 1224 251 SH400 0 050120 2D 000000 A00003584981	
7000EG 130059277100003	695000.00
LLA: CT 1761611 1591 251 SH325 0 050120 2D 000000 A10003584981	
7000EH 130059277100004	180000.00
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7000EJ 130059277100006	85500.00
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	05500 00
7000EK 130059277100007 LLA:	85500.00
DP 1751611 C281 251 24VCS 0 050120 2D 000000 A40003584981	
7000EL 130059172800001 LLA:	200000.00
DQ 9750350 81BM 251 SH325 0 050120 2D 000000 A00003578961	
7000EM 130059172800003 LLA:	73588.00
DR 1761804 52FA 251 00052 0 068732 2D C002IN 000526PR403Q	
7000EN 130059172800005 LLA:	116137.00
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7000EP 130059172800007 LLA:	25000.00
DT 1751810 V1LT 310 62306 068892 2D C00627 623065PNN6BW	
7000EQ 130059172800009	44000.00
LLA : DU 1761804 52FA 251 00052 0 068732 2D C0011P 324166PR445Q	

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7000ER 130059172800014 LLA:	107919.00
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DW 1761804 8RZ3 251 V5000 0 050120 2D 000000 A30003578961	
7000ET 130055972000012 LLA:	890000.00
BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896	
7000EU 130059260100001 LLA:	32726.00
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7000EV 130056151600002 LLA:	224000.00
BS 97-11X8242 PPR4 251 V1C00 0 050120 2D 000000 A00003364844	
7000EW 130059246700001 LLA: EB 97X4930 NH6B 251 77777 0 050120 2F 000000 A00003583135	26000.00
EB 9/A4930 NH6B 251 ///// 0 050120 2F 000000 A00003585135	
7000EX 130059698200001	65891.00
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9000BJ 130055972000009	20000.00
LLA: BJ 1751611 1589 251 SH377 0 050120 2D 000000 A40003351896	20000.00
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9000BV 130055956000023 LLA:	2000.00
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9000BX 130055956000026	5593.00
LLA:	3333.00
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9000CA 130057230800004	5000.00
LLA : BW 1761804 8B4B 251 V5Z00 0 050120 2D 000000 A20003451199	
9000CE 130057230800009	14200.00
LLA: CA 1761804 8B5B 251 V5Z00 0 050120 2D 000000 A60003451199	
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9000CF 130055966300026 LLA:	1000.00
AR 1761319 84RX 251 V5T00 0 050120 2D 000000 A10003351501	
9000CJ 130055966300029	8000.00
LLA: AV 1761319 84TA 255 V5H00 0 050120 2D 000000 A60003351501	
9000CK 130055966300038	10000.00
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9000CM 130055966300033	3000.00
LLA:	<del>-</del>
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9000CT 130057262600007	8000.00

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CJ 1761319 84TA 255 V5H00 0 050120 2D 000000 A50003453906	
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9000CZ 130057284500004 LLA:	3750.00
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9000DD 130055981300007 LLA:	334000.00
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9000DE 130057302900002 LLA:	15000.00
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9000DJ 130057302900007 LLA:	22654.00
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9000DR 130059114900005	2250.00
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9000DU 130055966300037	2000.00
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9000DY 130055966300045	7500.00
BC 1761319 C4FD 251 24VCS 0 050120 2D 000000 B70003351501	
9000DZ 130057262600011 LLA:	5000.00
GK 1751319 14RM 251 SH325 0 050120 2D 000000 A80003453906	
9000EC 130055972000011 LLA:	12125.00
BJ 1751611 1589 251 SH377 0 050120 2D 000000 A40003351896	
9000ED 130059277100009 LLA:	1200.00
DK 1721611 1388 251 SH377 0 050120 2D 000000 A50003584981	20400 00
9000EF 130059277100002 LLA: DL 1731611 1224 251 SH400 0 050120 2D 000000 A00003584981	38400.00
9000EH 130059277100005	50000.00
LLA : DM 1721611 1599 251 SH325 0 050120 2D 000000 A20003584981	
9000EL 130059172800002	16000.00
LLA : DQ 9750350 81BM 251 SH325 0 050120 2D 000000 A00003578961	

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9000EM 130059172800004 53450.00 LLA : DR 1761804 52FA 251 00052 0 068732 2D C002IN 000526PR4030 9000EN 130059172800006 7200.00 LLA : DS 1761804 8RZ3 251 S3251 0 050120 2D 000000 A10003578961 9000EP 130059172800008 40000.00 LLA : DT 1751810 V1LT 310 62306 068892 2D C00627 623065PNN6BW 130059172800010 6000.00 DU 1761804 52FA 251 00052 0 068732 2D C0011P 324166PR445Q 9000ES 130059172800016 81790.00 DW 1761804 8RZ3 251 V5000 0 050120 2D 000000 A30003578961 9000ET 130055972000013 10000.00 BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896 9000EU 130059260100002 6000.00 DX 97-11X8242 PPR4 251 V1C00 0 050120 2D 000000 A10003583948 9000EV 130056151600003 2000.00 BS 97-11X8242 PPR4 251 V1C00 0 050120 2D 000000 A00003364844 9000EW 130059246700002 12000.00 EB 97X4930 NH6B 251 77777 0 050120 2F 000000 A00003583135 9000EX 130059698200002 1000.00 DY 1761804 8U5N 251 V5Z00 0 050120 2D 000000 A00003613756 MOD 01 Funding 25615395.00 Cumulative Funding 38378861.00 MOD 02 Funding 0.00 Cumulative Funding 38378861.00 MOD 03 Funding 0.00 Cumulative Funding 38378861.00 MOD 04 7000CH 130055966300046 317950.00 AU 1761319 84TA 251 V5H00 0 050120 2D 000000 A40003351501 7000ED 130059277100010 636000.00 LLA : DK 1721611 1388 251 SH377 0 050120 2D 000000 A50003584981 7000EZ 130060868200001 120000.00 ED 1771804 8B5B 251 V5Z00 0 050120 2D 000000 A00003715246 7000FA 130060868200003 79823.00 EF 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A10003715246 7000FB 130060868200004 275000.00

LLA :

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EG 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A20003715246	
7000FC 130060868200006	15000.00
EH 1771804 8U5N 251 V5Z00 0 050120 2D 000000 A30003715246	
	377000.00
LLA: EJ 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A40003715246	
7000FE 130060868200008 :	39600.00
EK 1771804 8B5B 251 V5Z00 0 050120 2D 000000 A50003715246	
7000FF 130060868200009 :LLA:	172197.00
EL 1771804 8B5B 251 S3251 0 050120 2D 000000 A60003715246	
7000FG 130057262600016 LLA:	400000.00
DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906	
	50000.00
LLA: EM 1771319 84TX 251 V5T00 0 050120 2D 000000 A00003716204	
	245000.00
LLA : EN 1771319 84TX 251 V5T00 0 050120 2D 000000 A10003716204	
7000FK 130060881200004	115000.00
LLA : GL 1761319 C4FD 255 24VCS 0 050120 2D 000000 A20003716204	
7000FL 130060881200005	54769.00
LLA: EQ 1771319 64PF 251 CV378 0 050120 2D 000000 A30003716204	
	31909.00
LLA : ER 1771319 65YV 251 CV378 0 050120 2D 000000 A50003716204	
	25000.00
LLA : ES 1771804 8B2B 251 WS010 0 050120 2D 000000 A70003715246	
	305000.00
LLA : ET 1761319 14SC 251 SH377 0 050120 2D 000000 A40003716204	
~	258411.00
LLA : EU 1771611 6212 251 CV312 0 050120 2D 000000 A00003717000	
7000FR 130060882500002	592025.00
LLA : EV 1761611 6218 251 CV312 0 050120 2D 000000 A10003717000	
	246592.00
LLA : EU 1771611 6212 251 CV312 0 050120 2D 000000 A00003717000	
7000FT 130060882500004	90000.00
LLA : EX 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000	
7000FU 130060882500006	78562.00
LLA : EY 1761611 C281 251 24VCS 0 050120 2D 000000 A30003717000	

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7000FV 130060882500007	78562.00
LLA : EZ 1761611 C281 251 24VCS 0 050120 2D 000000 A40003717000	
7000FW 130060882500008	100000.00
LLA : FA 1721611 1317 255 SH317 0 050120 2D 000000 A50003717000	
7000FX 130060882500009 LLA:	178900.00
FB 1771611 1227 251 SH500 0 050120 2D 000000 A60003717000	
7000FY 130060915800001 LLA:	90136.00
FC 17X4557 1S10 251 SH385 0 050120 2D 000000 A00003719171	
7000FZ 130060900600001 LLA:	1095500.00
FD 1771804 8RZ3 251 V5000 0 050120 2D 000000 A00003718642	0.50000
7000GA 130061043700001 LLA:	269000.00
FE 97-11X8242 2878 000 74782 0 065916 2D PKUC45 212080170GGC 7000GB 130061043600001	90672.00
LLA: FF 97-11X8242 PPS4 251 V1C00 0 050120 2D 000000 A00003729087	90072.00
9000CH 130055966300047	20000.00
LLA : AU 1761319 84TA 251 V5H00 0 050120 2D 000000 A40003351501	
9000ED 130059277100011	1200.00
LLA : DK 1721611 1388 251 SH377 0 050120 2D 000000 A50003584981	
9000ET 130055972000014	15000.00
LLA : BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896	
9000EZ 130060868200002	5000.00
ED 1771804 8B5B 251 V5Z00 0 050120 2D 000000 A00003715246	
9000FB 130060868200005 LLA:	9000.00
EG 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A20003715246	
9000FD 130060868200011 LLA:	4000.00
EJ 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A40003715246	
9000FF 130060868200010 LLA :	9063.00
EL 1771804 8B5B 251 S3251 0 050120 2D 000000 A60003715246	6500.00
9000FG 130057262600017 LLA:	6500.00
DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906 9000FJ 130060881200003	5000.00
LLA : EN 1771319 84TX 251 V5T00 0 050120 2D 000000 A10003716204	3000.00
9000FP 130060881200007	15000.00
LLA : ET 1761319 14SC 251 SH377 0 050120 2D 000000 A40003716204	
9000FT 130060882500005 LLA:	4000.00

CC	ONTRACT NO.	DELIVERY ORDER NO.	AMENDMENT/MODIFICATION NO.	PAGE	FINAL
N(	00178-04-D-4030	N00178-04-D-4030-EH08	22	76 of 114	

EX 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000

9000FX 130060882500010 1100.00

LLA :

FB 1771611 1227 251 SH500 0 050120 2D 000000 A70003717000

MOD 04 Funding 6522471.00 Cumulative Funding 44901332.00

MOD 05

7000FZ 130060900600001 (1095500.00)

LLA :

FD 1771804 8RZ3 251 V5000 0 050120 2D 000000 A00003718642

7000GC 130061795700001 2023665.00

LLA :

FG 1771319 84TA 251 V5H00 0 050120 2D 000000 A00003791049

7000GD 130061812300001 280569.00

LLA :

FH 1771804 8B2B 251 V5H00 0 050120 2D 000000 A00003791259

7000GE 130061795700003 396500.00

LA :

FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049

7000GF 130061812300002 90000.00

T.Τ.Δ •

FK 1771804 8B2B 251 V5H00 0 050120 2D 000000 A10003791259

9000GC 130061795700002 25000.00

LLA :

FL 1771319 84TA 251 V5H00 0 050120 2D 000000 A10003791049

9000GE 130061795700004 2000.00

LLA :

FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049

MOD 05 Funding 1722234.00 Cumulative Funding 46623566.00

MOD 06 Funding 0.00

Cumulative Funding 46623566.00

MOD 07

7000BT N0002417MR55085 20000.00

T.T.A :

BT 1771811 1599 251 WAWJH 0 068342 2D 000000 105445000000

7000EZ 130060868200013 200000.00

LLA :

ED 1771804 8B5B 251 V5Z00 0 050120 2D 000000 A00003715246

7000FF 130060868200017 259872.00

LLA :

EL 1771804 8B5B 251 S3251 0 050120 2D 000000 A60003715246

7000FH 130060881200010 147000.00

LLA :

EM 1771319 84TX 251 V5T00 0 050120 2D 000000 A00003716204

7000FJ 130060881200011 352000.00

LLA :

EN 1771319 84TX 251 V5T00 0 050120 2D 000000 A10003716204

7000FL 130060881200013 93728.00

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LLA : EQ 1771319 64PF 251 CV378 0 050120 2D 000000 A30003716204	
7000FM 130060881200014 LLA:	179874.00
ER 1771319 65YV 251 CV378 0 050120 2D 000000 A50003716204	
7000FQ 130060882500001 LLA:	(1000.00)
EU 1771611 6212 251 CV312 0 050120 2D 000000 A00003717000	
7000FR 130060882500002 LLA:	(15000.00)
EV 1761611 6218 251 CV312 0 050120 2D 000000 A10003717000	
7000FS 130060882500003 LLA:	(11000.00)
EU 1771611 6212 251 CV312 0 050120 2D 000000 A00003717000	
7000GB 130061043600002 LLA:	244000.00
FF 97-11x8242 PPS4 251 V1C00 0 050120 2D 000000 A00003729087	
7000GG 130062101200001 LLA:	740000.00
FM 1771804 8U5N 251 V5S00 0 050120 2D 000000 A00003812730	
7000GH 130062101200003 LLA:	40000.00
FN 1771804 8B5B 251 CV312 0 050120 2D 000000 A10003812730	
7000GJ 130062101200004	157000.00
LLA : FP 1771804 8B2B 251 V5H00 0 050120 2D 000000 A20003812730	
7000GK 130062101200006 LLA:	125000.00
FQ 1771804 8C6C 251 S3251 0 050120 2D 000000 A30003812730	
7000GL 130061795700005	205651.00
LLA : FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049	
7000GM 130062114100001	224000.00
LLA : FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536	
7000GN 130062114100002 LLA:	12211.00
FS 1771319 65YV 251 CV378 0 050120 2D 000000 A10003813536	
7000GP 130062114100003 LLA:	300000.00
FT 1771319 C4FD 251 24VCS 0 050120 2D 000000 A20003813536	
7000GQ 130062114100004	223220.00
LLA : FU 1771319 15YV 251 SH377 0 050120 2D 000000 A30003813536	
7000GR 130062114100005	647759.00
LLA : FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536	
7000GS 130062114100007	590153.00
LLA : FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536	
7000GT 130062114100009	941120.00
LLA : FX 1771319 14RM 255 SH385 0 050120 2D 000000 A60003813536	

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7000GU 130062114900001	350000.00
LLA : FY 1761611 1387 251 SH377 0 050120 2D 000000 A00003814081	
7000GV 130062115600001	145000.00
LLA : FZ 1731611 8560 251 SH325 0 050120 2D 000000 A00003814912	
7000GW 130062116000001 LLA:	215000.00
GA 1771810 11H0 251 SH325 0 050120 2D 000000 A00003815140	
7000GX 130062101200007 LLA:	51400.00
GB 1771804 8U5N 251 V5Z00 0 050120 2D 000000 A40003812730	
7000GY 130062101200008 LLA:	70527.00
GC 1771804 8U5N 251 V5Z00 0 050120 2D 000000 A50003812730	
7000GZ 130062101200009 LLA:	69527.00
GD 1771804 8U5N 251 V5Z00 0 050120 2D 000000 A60003812730	
7000HA 130062236200001 LLA:	35876.00
GE 97-11X8242 PPS4 251 V1C00 0 050120 2D 000000 A00003822666	
7000HB 130062101200011 LLA:	405957.00
GG 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A70003812730	
7000HC 130062101200012 LLA:	117550.00
GH 1771804 8B2B 251 V5H00 0 050120 2D 000000 A80003812730	
7000HD 130062114100011 LLA:	295000.00
GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536	19000.00
9000EL 130059172800017 LLA :	19000.00
DQ 9750350 81BM 251 SH325 0 050120 2D 000000 A00003578961 9000FF 130060868200018	55783.00
LLA : EL 1771804 8B5B 251 S3251 0 050120 2D 000000 A60003715246	33783.00
9000FJ 130060881200012	15000.00
LLA : EN 1771319 84TX 251 V5T00 0 050120 2D 000000 A10003716204	13000.00
9000FO 130060882500014	1000.00
LLA : EU 1771611 6212 251 CV312 0 050120 2D 000000 A00003717000	1000.00
9000FR 130060882500015	15000.00
LLA : EV 1761611 6218 251 CV312 0 050120 2D 000000 A10003717000	
9000FS 130060882500016	11000.00
LLA : EU 1771611 6212 251 CV312 0 050120 2D 000000 A00003717000	
9000GB 130061043600003	5000.00
LLA : FF 97-11X8242 PPS4 251 V1C00 0 050120 2D 000000 A00003729087	
9000GG 130062101200002	10000.00

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FM 1771804 8U5N 251 V5S00 0 050120 2D 000000 A00003812730

9000GJ 130062101200005 1000.00

T.T.A :

FP 1771804 8B2B 251 V5H00 0 050120 2D 000000 A20003812730

9000GL 130061795700006 18000.00

LLA :

FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049

9000GR 130062114100006 45000.00

LLA :

FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536

9000GS 130062114100008 12500.00

LLA :

FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536

9000GT 130062114100010 200000.00

LLA :

FX 1771319 14RM 255 SH385 0 050120 2D 000000 A70003813536

9000GV 130062115600002 5000.00

LLA :

FZ 1731611 8560 251 SH325 0 050120 2D 000000 A00003814912

9000GW 130062116000002 35000.00

LLA :

GA 1771810 11H0 251 SH325 0 050120 2D 000000 A00003815140

9000GZ 130062101200010 1000.00

LLA :

GD 1771804 8U5N 251 V5Z00 0 050120 2D 000000 A60003812730

MOD 07 Funding 7880708.00 Cumulative Funding 54504274.00

MOD 08 Funding 0.00

Cumulative Funding 54504274.00

MOD 09 Funding 0.00

Cumulative Funding 54504274.00

MOD 10

7000BE 130055972000016 150000.00

LLA :

BF 1761611 1224 251 SH400 0 050120 2D 000000 A00003351896

7000ET 130055972000017 362000.00

LLA :

BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896

7000FW 130060882500018 195000.00

LLA :

FA 1721611 1317 255 SH317 0 050120 2D 000000 A50003717000

7000GB 130061043600004 135000.00

LLA :

FF 97-11X8242 PPS4 251 V1C00 0 050120 2D 000000 A00003729087

7000GU 130062114900003 300000.00

LLA :

FY 1761611 1387 251 SH377 0 050120 2D 000000 A00003814081

7000HE 130060868200020 445000.00

LLA :

EL 1771804 8B5B 251 S3251 0 050120 2D 000000 A60003715246

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7000HF 130064212200003 LLA: GM 1771804 8B4B 233 V5Z00 0 050120 2D 000000 A10003986119	195000.00
7000HJ 130064212200006 LLA:	66354.00
GP 1771804 8C6C 251 S3251 0 050120 2D 000000 A30003986119  7000HK 130057262600019  LLA:	100000.00
CH 1761319 14LX 255 SH317 0 050120 2D 000000 A40003453906 7000HL 130057262600021	500000.00
LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906	
7000HM 130060881200016 LLA: ET 1761319 14SC 251 SH377 0 050120 2D 000000 A40003716204	55000.00
7000HP 130064224800001 LLA: GR 1771319 C4NV 251 24VCS 0 050120 2D 000000 A00003987775	125000.00
7000HQ 130064224800003 LLA:	85000.00
GS 1771319 17HD 251 SH377 0 050120 2D 000000 A20003987775  7000HR 130064236900001	343000.00
LLA: GT 1771611 1589 251 SH377 0 050120 2D 000000 A00003989008  7000HS 130064256700001	164572.00
LLA : GU 1751810 11H0 251 SH325 0 050120 2D 000000 A00003990861	
7000HT 130064237000001 LLA: GV 17X4557 1S10 251 SH385 0 050120 2D 000000 A00003989284	44000.00
7000HU 130059172800019 LLA: DO 9750350 81BM 251 SH325 0 050120 2D 000000 A00003578961	274175.00
7000HV 130064251100001 LLA:	75000.00
GW 9760400 1120 P68 05040 3 251C00 00 00DWAM 62955 049447  7000HW 130064251100009  LLA:	1045000.00
GX 1771804 60BA 257 50054 068732 2D CB0002 500547D1549P	60257.00
LLA : GY 2162040 A5X DL654 8 04L43F PF D251A0 011004866A00 26121835	
7000HY 130064251100004 LLA: GZ 1771804 70BB 251 57020 0 060957 2D XS0044 P00057MU008Q	110725.00
7000JA 130064251100007 LLA :	275000.00
HB 1771804 8RZ3 251 S3251 0 050120 2D 000000 A00003990385  7000JB 130064212200001  LLA:	892092.00
HC 1771804 8U5N 251 V5T00 0 050120 2D 000000 A00003986119 9000ET 130055972000018	5000.00
>000HI I30000>12000HU	3000.00

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BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896

9000GB 130061043600005 5000.00

LLA :

FF 97-11X8242 PPS4 251 V1C00 0 050120 2D 000000 A00003729087

9000HE 130060868200021 55000.00

LLA :

EL 1771804 8B5B 251 S3251 0 050120 2D 000000 A60003715246

9000HF 130064212200004 2000.00

LLA :

GM 1771804 8B4B 233 V5Z00 0 050120 2D 000000 A10003986119

9000HJ 130064212200007 6500.00

LLA :

GP 1771804 8C6C 251 S3251 0 050120 2D 000000 A30003986119

9000HK 130057262600020 350000.00

LLA :

CN 1761319 14LX 255 SH317 0 050120 2D 000000 B20003453906

9000HL 130057262600022 20500.00

LLA :

DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906

9000HU 130059172800020 33564.00

LLA :

DO 9750350 81BM 251 SH325 0 050120 2D 000000 A00003578961

9000HV 130064251100011 15000.00

LLA :

GW 9760400 1120 P68 05040 3 251C00 00 00DWAM 62955 049447

9000HW 130064251100010 50000.00

LLA :

GX 1771804 60BA 257 50054 068732 2D CB0002 500547D1549P

9000HX 130064251100003 3120.00

LLA :

GY 2162040 A5X DL654 8 04L43F PF D251A0 011004866A00 26121835 021001

9000HY 130064251100005 15000.00

LLA :

GZ 1771804 70BB 251 57020 0 060957 2D XS0044 P00057MU008Q

9000HZ 130064251100006 25368.00

LLA :

HA 1751810 V1LT 310 62306 068892 2D C00627 623065PNN6BW

9000JA 130064251100008 1500.00

T 7 •

HB 1771804 8RZ3 251 S3251 0 050120 2D 000000 A00003990385

9000JB 130064212200002 12000.00

LLA :

HC 1771804 8U5N 251 V5T00 0 050120 2D 000000 A00003986119

MOD 10 Funding 6596727.00 Cumulative Funding 61101001.00

MOD 11

7000FM 130060881200017 16864.00

LLA :

ER 1771319 65YV 251 CV378 0 050120 2D 000000 A50003716204

7000FT 130060882500019 23500.00

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LLA :	
EX 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000	
7000GC 130061795700008 LLA:	58000.00
FG 1771319 84TA 251 V5H00 0 050120 2D 000000 A00003791049	
7000GE 130061795700010 LLA:	114000.00
FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049	
7000GL 130061795700011	225000.00
LLA : FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049	
7000GM 130062114100015	59000.00
LLA : FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536	
7000GN 130062114100013	11469.00
LLA : FS 1771319 65YV 251 CV378 0 050120 2D 000000 A10003813536	
7000GR 130062114100017	214841.00
LLA : FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536	
7000GS 130062114100019	245836.00
LLA : FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536	
7000HD 130062114100023	285000.00
LLA : GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536	
7000HL 130057262600023	65665.00
LLA : DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906	
7000JB 130064212200008	565558.00
LLA : HC 1771804 8U5N 251 V5T00 0 050120 2D 000000 A00003986119	
7000JC 130060868200022	200000.00
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CONTRACT NO.	DELIVERY ORDER NO.	AMENDMENT/MODIFICATION NO.	PAGE	FINAL
N00178-04-D-4030	N00178-04-D-4030-EH08	22	83 of 114	

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9000FM 130060881200018 LLA: HD 17771319 65YV 251 CV378 0 050120 2D 000000 A70003716204  9000GC 130061795700009 LLA: FL 1771319 84TA 251 V5H00 0 050120 2D 000000 A10003791049  9000GL 130061795700012 LLA: FJ 17771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049  9000GM 130062114100016 LLA: FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018 LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000GB 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 LLA:	LLA :	370000.00
HD 1771319 65YV 251 CV378 0 050120 2D 000000 A70003716204  9000GC 130061795700009 LLA: FL 1771319 84TA 251 V5H00 0 050120 2D 000000 A10003791049  9000GL 130061795700012 LLA: FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049  9000GM 130062114100016 LLA: FR 1771319 84TX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018 LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 LLA: GJ 1771319 84TX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 LLA:		6000.00
LLA: FL 1771319 84TA 251 V5H00 0 050120 2D 000000 A10003791049  9000GL 130061795700012 LLA: FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049  9000GM 130062114100016 LLA: FR 1771319 84TX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018 LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 LLA: GJ 1771319 84TX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 LLA:		
FL 1771319 84TA 251 V5H00 0 050120 2D 000000 A10003791049  9000GL 130061795700012 LLA: FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049  9000GM 130062114100016 LLA: FR 1771319 84TX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018 LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 LLA: GJ 1771319 84TX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 LLA:	9000GC 130061795700009	10000.00
LLA: FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049  9000GM 130062114100016 LLA: FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018 LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HL 130062114100024 LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 LLA:		
FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049  9000GM 130062114100016  LLA: FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018  LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020  LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024  LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025  LLA:		16000.00
LLA: FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018  LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020  LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024  LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025  LLA:		
FR 1771319 84RX 255 V5T00 0 050120 2D 000000 A00003813536  9000GR 130062114100018 LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 LLA:		1000.00
LLA: FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536  9000GS 130062114100020  LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024  LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025  LLA:		
9000GS 130062114100020 2000.00 LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 7500.00 LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024 LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 5000.00 LLA:		5000.00
LLA: FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536  9000HD 130062114100024 7500.00  LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 5000.00  LLA:	FV 1771319 84TA 255 V5H00 0 050120 2D 000000 A40003813536	
9000HD 130062114100024 7500.00  LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025  LLA:		2000.00
LLA: GJ 1771319 84RX 251 V5T00 0 050120 2D 000000 A80003813536  9000HL 130057262600024  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025  LLA:	FW 1771319 84TA 255 V5H00 0 050120 2D 000000 A50003813536	
9000HL 130057262600024 30000.00  LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 5000.00  LLA:	LLA :	7500.00
LLA: DZ 1761319 86ED 255 V5SBI 0 050120 2D 000000 B10003453906  9000JE 130060868200025 5000.00 LLA:		20000 22
9000JE 130060868200025 5000.00 LLA:	LLA :	30000.00
LLA :		5000 00
	LLA :	3330.00
9000JG 130060868200028 2000.00		2000.00

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EJ 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A40003715246

9000JK 130062101200015 8553.00

LLA :

FM 1771804 8U5N 251 V5S00 0 050120 2D 000000 A00003812730

9000JP 130065462600002 70000.00

LLA

HE 1771804 8B5B 251 VU021 0 050120 2D 000000 A00004071535

MOD 11 Funding 6717679.00 Cumulative Funding 67818680.00

MOD 12

7000GC 130061795700013 27835.00

LLA :

FG 1771319 84TA 251 V5H00 0 050120 2D 000000 A00003791049

7000GE 130061795700014 250361.00

LLA :

FJ 1771319 84TA 251 V5H00 0 050120 2D 000000 A20003791049

7000JT 130066655300001 50000.00

LLA :

HJ 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A00004146770

MOD 12 Funding 328196.00 Cumulative Funding 68146876.00

MOD 13

7000JD 130060868200031 95000.00

LLA :

 ${\tt EF}\ 1771804\ 8{\tt B4B}\ 251\ {\tt V5Z00}\ 0\ 050120\ 2{\tt D}\ 000000\ {\tt A10003715246}$ 

7000JG 130060868200032 473000.00

LLA :

EJ 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A40003715246

7000JU 130061812300004 48466.00

LLA :

FH 1771804 8B2B 251 V5H00 0 050120 2D 000000 A00003791259

7000JV 130067474800001 325000.00

LLA :

HK 1771804 8B4B 257 V5Z00 0 050120 2D 000000 A00004209780

7000JW 130067474800003 22034.56

гтл •

HL 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A10004209780

7000JX 130067474800004 112162.55

LLA :

HM 1771804 8C6C 251 V5P00 0 050120 2D 000000 A20004209780

7000JY 130067474800005 56775.00

T.Τ.Δ •

HN 1771804 8C4C 251 V5H00 0 050120 2D 000000 A30004209780

7000JZ 130067474800006 50000.00

LLA :

HP 1771804 8B5B 251 V5P00 0 050120 2D 000000 A40004209780

7000KA 130067474800007 38675.00

LLA :

HQ 1771804 8U5N 251 V5T00 0 050120 2D 000000 A50004209780

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7000KB 130067474800009	29350.00
LLA : HR 1771804 8J2H 251 V5C00 0 050120 2D 000000 A70004209780	23000.00
7000KC 130067474800008	10247 07
LLA :	10247.07
HS 1771804 8T5M 251 V5H00 0 050120 2D 000000 A60004209780	
7000KD 130067485300001 LLA:	25713.82
HT 1751810 81HF 251 V5P00 0 050120 2D 000000 A00004210340	
7000KE 130067485300002 LLA:	15042.33
HU 1751810 82NU 251 V5H00 0 050120 2D 000000 A10004210340	
9000JG 130060868200033 LLA:	8000.00
EJ 1771804 8B4B 251 V5Z00 0 050120 2D 000000 A40003715246	
9000JV 130067474800002	92640.36
LLA : HK 1771804 8B4B 257 V5Z00 0 050120 2D 000000 A00004209780	
MOD 13 Funding 1402106.69 Cumulative Funding 69548982.69	
MOD 14	
7000ET 130055972000017	(272440.00)
LLA : BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896	(272110:00)
	40000 00
7000KF 130068071600001 LLA :	40000.00
HV 1781804 8B2B 251 V5H00 0 050120 2D 000000 A00004271246	
7000KG 130068071600003 LLA:	45000.00
HW 1781804 8B2B 251 V5H00 0 050120 2D 000000 A10004271246	
7000KH 130068071600005 LLA:	80000.00
HX 1781804 8B2B 251 V5H00 0 050120 2D 000000 A20004271246	
7000KJ 130060881200019	50000.00
LLA : EM 1771319 84TX 251 V5T00 0 050120 2D 000000 A00003716204	
7000KK 130060881200020	204000.00
LLA : EN 1771319 84TX 251 V5T00 0 050120 2D 000000 A10003716204	
7000KL 130068104600001	50000.00
LLA : HY 1781319 84TX 251 V5T00 0 050120 2D 000000 A00004272778	
7000KM 130068104600002	245000.00
LLA : HZ 1781319 84TX 251 V5T00 0 050120 2D 000000 A10004272778	
7000KN 130068104600004	110500.00
LLA :	±10000.00
JA 1781319 84TA 255 V5H00 0 050120 2D 000000 A20004272778	
7000KP 130068104600006 LLA:	125000.00
JB 1781319 84TA 255 V5H00 0 050120 2D 000000 A30004272778	

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N00178-04-D-4030	N00178-04-D-4030-EH08	22	86 of 114	

7000KQ 130068104600008	40000.00
LLA : JD 1781319 15YV 251 SH377 0 050120 2D 000000 A40004272778	
7000KR 130068104600009	124000.00
LLA : JE 1781319 17HD 251 SH377 0 050120 2D 000000 A50004272778	
7000KS 130068104600010	134650.00
LLA : JF 1781319 C4LC 251 24VCS 0 050120 2D 000000 A60004272778	
7000KT 130068104600012	524000.00
LLA : JG 1771319 C4AU 251 24VCS 0 050120 2D 000000 A70004272778	
7000KU 130068108700001	325000.00
LLA : JH 1771810 C1LN 251 24VCS 0 050120 2D 000000 A00004273090	
7000KV 130068107600001	220000.00
LLA : JK 1731611 1224 251 SH400 0 050120 2D 000000 A00004273403	
7000kw 130068107600002 LLA:	640000.00
JL 1761611 1224 251 SH400 0 050120 2D 000000 A10004273403	
7000KX 130068107800001 LLA:	75000.00
JM 1781804 60CA 251 00060 W 068732 2D C00112 000608020CTQ	
9000ET 130055972000018 LLA:	(2292.00)
BG 1761611 1590 251 SH325 0 050120 2D 000000 A10003351896	
9000KF 130068071600002 LLA:	10000.00
HV 1781804 8B2B 251 V5H00 0 050120 2D 000000 A00004271246	
9000KG 130068071600004 LLA:	5000.00
HW 1781804 8B2B 251 V5H00 0 050120 2D 000000 A10004271246	
9000KK 130060881200021 LLA:	10000.00
EN 1771319 84TX 251 V5T00 0 050120 2D 000000 A10003716204	
9000KM 130068104600003 LLA:	5000.00
HZ 1781319 84TX 251 V5T00 0 050120 2D 000000 A10004272778	22222
9000KN 130068104600005 LLA: JA 1781319 84TA 255 V5H00 0 050120 2D 000000 A20004272778	20000.00
9000KP 130068104600007	5000.00
LLA :  JC 1781319 84TA 255 V5H00 0 050120 2D 000000 A80004272778	3000.00
9000KS 130068104600011	6500.00
LLA: JF 1781319 C4LC 251 24VCS 0 050120 2D 000000 A60004272778	2000.00
9000KU 130068108700002	3000.00
LLA : JH 1771810 C1LN 251 24VCS 0 050120 2D 000000 A00004273090	-
9000kw 130068107600003	45000.00

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N00178-04-D-4030	N00178-04-D-4030-EH08	22	87 of 114	

JL 1761611 1224 251 SH400 0 050120 2D 000000 A10004273403

MOD 14 Funding 2866918.00 Cumulative Funding 72415900.69

MOD 15

7000FT 130060882500019 (23500.00)

LLA :

EX 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000

7000KY 130069375600001 300000.00

LLA :

JN 1771319 86ED 255 V5SBI 0 050120 2D 000000 A00004374090

7000KZ 130069375600002 500000.00

LLA :

 ${\tt JP~1781319~84TA~251~V5H00~0~050120~2D~000000~A10004374090}$ 

7000LB 130069375600006 108000.00

LLA :

JQ 1781319 84TX 251 V5T00 0 050120 2D 000000 A50004374090

9000KZ 130069375600003 5000.00

LLA :

JR 1781319 84TA 251 V5H00 0 050120 2D 000000 A20004374090

MOD 15 Funding 889500.00 Cumulative Funding 73305400.69

MOD 16

7000KW 130068107600004 1038226.00

LLA :

JL 1761611 1224 251 SH400 0 050120 2D 000000 A10004273403

7000LC 130060882500021 23500.00

LLA :

EX 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000

7000LD 130060882500022 50000.00

LLA :

JS 1781611 1589 251 SH377 0 050120 2D 000000 A80003717000

9000kW 130068107600005 55000.00

LLA :

JL 1761611 1224 251 SH400 0 050120 2D 000000 A10004273403

MOD 16 Funding 1166726.00 Cumulative Funding 74472126.69

MOD 17

7000EW 130059246700001 (2417.12)

LLA :

EB 97X4930 NH6B 251 77777 0 050120 2F 000000 A00003583135

7000LE 130071015200001 200000.00

LLA :

JT 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A00004499822

7000LF 130071168800001 29000.00

LLA :

JU 1771319 84RX 255 V5T00 0 050120 2D 000000 A00004511110

9000LF 130071168800002 1000.00

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N00178-04-D-4030	N00178-04-D-4030-EH08	22	88 of 114	

JU 1771319 84RX 255 V5T00 0 050120 2D 000000 A00004511110

MOD 17 Funding 227582.88 Cumulative Funding 74699709.57

MOD 18

7000KL 130068104600013 30000.00

LLA :

HY 1781319 84TX 251 V5T00 0 050120 2D 000000 A00004272778

7000KM 130068104600014 155000.00

LLA :

HZ 1781319 84TX 251 V5T00 0 050120 2D 000000 A10004272778

7000KQ 130068104600015 40000.00

LLA :

JD 1781319 15YV 251 SH377 0 050120 2D 000000 A40004272778

7000LE 130071015200002 450000.00

LLA :

JT 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A00004499822

7000LG 130072649300001 11500.00

LLA :

JV 1781804 8U2N 251 V5Z00 0 050120 2D 000000 A00004601216

7000LH 130072649300002 306000.00

LLA :

JW 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A10004601216

7000LJ 130072649300003 51000.00

LLA :

JX 1781804 8U2N 251 V5Z00 0 050120 2D 000000 A20004601216

7000LK 130072649300004 76000.00

LLA :

JY 1781804 8B5B 251 V5Z00 0 050120 2D 000000 A30004601216

7000LM 130072649300005 55000.00

LLA :

JZ 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A40004601216

7000LN 130072649700001 210000.00

T.T.A :

KA 1781319 84RX 255 V5T00 0 050120 2D 000000 A00004601604

7000LP 130072649700003 1000000.00

I.T.A :

KB 1781319 86ED 255 V5SBI 0 050120 2D 000000 A10004601604

7000LQ 130072649700005 400000.00

LLA :

KC 1781319 C4FD 255 24VCS 0 050120 2D 000000 A20004601604

7000LR 130072649300006 233600.00

LLA :

KD 1781804 8B5B 251 V5Z00 0 050120 2D 000000 A50004601216

7000LS 130072649300007 118401.00

LLA :

KE 1781804 8U2N 251 V5Z00 0 050120 2D 000000 A60004601216

7000LT 130072649300008 131948.00

LLA :

KF 1781804 8U2N 251 V5Z00 0 050120 2D 000000 A70004601216

7000LU 130072866200001 55000.00

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N00178-04-D-4030	N00178-04-D-4030-EH08	22	89 of 114	

KG 1781804 8U2N 257 V5P00 0 050120 2D 000000 A00004614680

7000LV 130072866200002 20000.00

LLA :

KH 1781804 8U2N 251 V5P00 0 050120 2D 000000 A00004614680

9000LE 130071015200003 6000.00

LLA

JT 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A00004499822

9000LN 130072649700002 15000.00

LLA :

KA 1781319 84RX 255 V5T00 0 050120 2D 000000 A00004601604

9000LP 130072649700004 40000.00

LLA :

KB 1781319 86ED 255 V5SBI 0 050120 2D 000000 A10004601604

9000LT 130072649300009 500.00

LLA :

KF 1781804 8U2N 251 V5Z00 0 050120 2D 000000 A70004601216

MOD 18 Funding 3404949.00 Cumulative Funding 78104658.57

MOD 19

7000LW 130073748800001 100000.00

LLA :

KJ 97-11X8242 PPT4 251 V1C00 0 050120 2D 000000 A00004670158

MOD 19 Funding 100000.00 Cumulative Funding 78204658.57

MOD 20

7000KQ 130068104600018 11000.00

LLA :

JD 1781319 15YV 251 SH377 0 050120 2D 000000 A40004272778

7000KW 130068107600008 185000.00

LLA :

JL 1761611 1224 251 SH400 0 050120 2D 000000 A10004273403

7000LX 130074248200001 239025.00

LLA :

KL 1781804 8B5B 257 V5P00 0 050120 2D 000000 A00004703326

7000LY 130074248200003 15975.00

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KM 1781804 8B5B 257 V5Z00 0 050120 2D 000000 A10004703326

7000LZ 130074248200004 126000.00

LLA :

KN 1781804 8B5B 251 V5Z00 0 050120 2D 000000 A10004703326

7000MA 130074351800001 104000.00

LLA :

KP 1771319 17HD 251 SH377 0 050120 2D 000000 A00004711273

7000MB 130074500300001 260000.00

LLA :

KQ 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A00004721262

7000MC 130074500300003 45000.00

LLA :

KR 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A10004721262

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7000MD 130074500300004 LLA:	89096.00
KS 1781804 8U2N 257 V5Z00 0 050120 2D 000000 A20004721262 7000ME 130074500300005	182203.62
LLA:  KT 1781804 8B4B 257 V5Z00 0 050120 2D 000000 A30004721262	102203.02
7000MF 130074500300006	66750.00
LLA : KU 1781804 8C4C 251 V5H00 0 050120 2D 000000 A40004721262	
7000MG 130074500300007 LLA:	12863.00
KV 1781804 8C6C 251 V5P00 0 050120 2D 000000 A50004721262	
7000MH 130074500300008 LLA:	20925.00
KW 1781804 8U2N 251 V5P00 0 050120 2D 000000 A60004721262	
7000MJ 130074500300009 LLA:	38850.00
KX 1781804 8U2N 251 V5P00 0 050120 2D 000000 A70004721262	04.055.00
7000MK 130074500300010 LLA: KY 1781804 8C1C 251 V5H00 0 050120 2D 000000 A80004721262	21975.00
7000ML 130074500300011	14175.00
LLA : KZ 1781804 8B2B 251 V5H00 0 050120 2D 000000 A90004721262	11170.00
7000MM 130074500300012	20150.00
LLA : LA 1781804 8C1C 251 V5H00 0 050120 2D 000000 B00004721262	
7000MN 130074500300013	18500.00
LLA : LB 1781804 8M1K 251 V5H00 0 050120 2D 000000 B10004721262	
7000MP 130074487000001 LLA:	80000.00
LC 1781319 C4LC 251 24VCS 0 050120 2D 000000 A00004721122	
9000KW 130068107600009 LLA:	15000.00
JL 1761611 1224 251 SH400 0 050120 2D 000000 A10004273403	
9000LX 130074248200002 LLA :	90000.00
KL 1781804 8B5B 257 V5P00 0 050120 2D 000000 A00004703326  9000LZ 130074248200005	10000.00
LLA : KN 1781804 8B5B 251 V5Z00 0 050120 2D 000000 A10004703326	10000.00
9000MB 130074500300002	4000.00
LLA : KQ 1781804 8B4B 251 V5Z00 0 050120 2D 000000 A00004721262	
MOD 00 F -1' - 1670407 CO	
MOD 20 Funding 1670487.62 Cumulative Funding 79875146.19	
MOD 21	
7000FT 130060882500019	(21519.33)

EX 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000

LLA :

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MOD 21 Funding -21519.33 Cumulative Funding 79853626.86

MOD 22

7000KM 130068104600019 477000.00

HZ 1781319 84TX 251 V5T00 0 050120 2D 000000 A10004272778

7000LP 130072649700006 800000.00

LLA :

KB 1781319 86ED 255 V5SBI 0 050120 2D 000000 A10004601604

7000MQ 130075594100002 25000.00

LLA :

LD 1791319 15YV 251 SH377 0 050120 2D 000000 A10004818876

7000MR 130075594100001 250000.00

LLA :

LE 1791319 A5XZ 251 WS100 0 050120 2D 000000 A00004818876

7000MS 130075594200001 179000.00

LLA :

LF 1791319 84TX 251 V5T00 0 050120 2D 000000 A00004819135

7000MT 130075594200002 413000.00

LLA :

LG 1791319 84TX 251 V5T00 0 050120 2D 000000 A20004819135

7000MU 130075594200003 132000.00

LLA :

LG 1791319 84TX 251 V5T00 0 050120 2D 000000 A10004819135

7000MV 130060882500026 21519.00

LLA :

LJ 1751611 1589 251 SH377 0 050120 2D 000000 A20003717000

7000MW 130075594600001 97000.00

LLA :

 $\verb|LK 1781611 1589 251 SH377 0 050120 2D 000000 A00004819426| \\$ 

9000LP 130072649700007 20000.00

LLA :

KB 1781319 86ED 255 V5SBI 0 050120 2D 000000 A10004601604

MOD 22 Funding 2414519.00 Cumulative Funding 82268145.86

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#### SECTION H SPECIAL CONTRACT REQUIREMENTS

5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

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

CPFF/CPIF/ODC				
ITEM	ALLOTTED TO COST	ALLOTTED TO FEE	EST. POP THROUGH	
7000FT				

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

(c) CLIN(s)/SLIN(s) 7000AB, 7000AC, 7000AD, 7000AE, 7000AF, 7000AG, 7000AH, 7000AJ, 7000AK, 7000AL, 7000AM, 7000AN, 7000AP, 7000AQ, 7000AR, 7000AS, 7000AT, 7000AU, 7000AV, 7000AW, 7000AX, 7000AY, 7000AZ, 7000BB, 7000BC, 7000BD, 7000BE, 7000BF, 7000BH, 7000BJ, 7000BK, 7000BL, 7000BM, 7000BN, 7000BP, 7000BO, 7000BR, 7000BS, 7000BT, 7000BV, 7000BW, 7000BX, 7000BY, 7000BZ, 7000CA, 7000CB, 7000CC, 7000CD, 7000CE, 7000CF, 7000CG, 7000CH, 7000CJ, 7000CK, 7000CL, 7000CM, 7000CN, 7000CP, 7000CQ, 7000CR, 7000CS, 7000CT, 7000CU, 7000CV, 7000CW, 7000CX, 7000CY, 7000CZ, 7000DA, 7000DB, 7000DC, 7000DD, 7000DE, 7000DF, 7000DG, 7000DH, 7000DJ, 7000DK, 7000DL, 7000DM, 7000DN, 7000DP, 7000DQ, 7000DR, 7000DS, 7000DT, 7000DU, 7000DV, 7000DW, 7000DX, 7000DY, 7000DZ, 7000EA, 7000EB, 7000EC, 7000ED, 7000EE, 7000EF, 7000EG, 7000EH, 7000EJ, 7000EK, 7000EL, 7000EM, 7000EN, 7000EP, 7000EO, 7000ER, 7000ES, 7000ET, 7000EU, 7000EV, 7000EW, 7000EX, 7000EZ, 7000FA, 7000FB, 7000FC, 7000FD, 7000FE, 7000FF, 7000FG, 7000FH, 7000FJ, 7000FK, 7000FL, 7000FM, 7000FN, 7000FP, 7000FQ, 7000FR, 7000FS, 7000FU, 7000FV, 7000FW, 7000FX, 7000FY, 7000FZ, 7000GA, 7000GB, 7000GC, 7000GD, 7000GE, 7000GF, 7000GG, 7000GH, 7000GJ, 7000GK, 7000GL, 7000GM, 7000GN, 7000GP, 7000GQ, 7000GR, 7000GS, 7000GT, 7000GU, 7000GV, 7000GW, 7000GX, 7000GY, 7000GZ, 7000HA, 7000HB, 7000HC, 7000HD, 7000HE, 7000HF, 7000HJ, 7000HK, 7000HL, 7000HM, 7000HP, 7000HQ, 7000HR, 7000HS, 7000HT, 7000HU, 7000HV, 7000HW, 7000HX, 7000HY, 7000JA, 7000JB, 7000JC, 7000JD, 7000JE, 7000JF, 7000JG, 7000JH, 7000JJ, 7000JK, 7000JL, 7000JM, 7000JN, 7000JP, 7000JQ, 7000JR, 7000JS, 7000JT, 7000JU, 7000JV, 7000JW, 7000JX, 7000JX, 7000JZ, 7000KA, 7000KB, 7000KC, 7000KD, 7000KE, 7000KF, 7000KG, 7000KH, 7000KJ, 7000KK, 7000KL, 7000KM, 7000KN, 7000KP, 7000KQ, 7000KR, 7000KS, 7000KT, 7000KU, 7000KV, 7000KW, 7000KX, 7000KY, 7000KZ, 7000LB, 7000LC, 7000LD, 7000LE, 7000LF, 7000LG, 7000LH, 7000LJ, 7000LK, 7000LM, 7000LN, 7000LP, 7000LQ, 7000LR, 7000LS, 7000LT, 7000LU, 7000LV, 7000LW, 7000LX, 7000LY, 7000LZ, 7000MA, 7000MB, 7000MC, 7000MD, 7000ME, 7000MF, 7000MG, 7000MH, 7000MJ, 7000MK, 7000ML, 7000MM, 7000MN, 7000MP, 7000MO, 7000MR, 7000MS, 7000MT, 7000MU, 7000MV, 7000MW, 9000AB, 9000AC, 9000AD, 9000AL, 9000AM, 9000AS, 9000AV, 9000AW, 9000AX, 9000AZ, 9000BA, 9000BD, 9000BJ, 9000BM, 9000BN, 9000BQ, 9000BU, 9000BV, 9000BX, 9000CA, 9000CE, 9000CF, 9000CH, 9000CJ, 9000CK, 9000CM, 9000CS, 9000CT, 9000CY, 9000CZ, 9000DD, 9000DE, 9000DJ, 9000DK, 9000DL, 9000DM, 9000DR, 9000DU, 9000DY, 9000DZ, 9000EC, 9000ED, 9000EF, 9000EH, 9000EL, 9000EM, 9000EN, 9000EP, 9000EO, 9000ES, 9000ET, 9000EU, 9000EV, 9000EW, 9000EX, 9000EZ, 9000FB, 9000FD, 9000FF, 9000FG, 9000FJ, 9000FM, 9000FP, 9000FQ, 9000FR, 9000FS, 9000FT, 9000FX,

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9000GB, 9000GC, 9000GE, 9000GG, 9000GJ, 9000GL, 9000GM, 9000GR, 9000GS, 9000GT, 9000GV, 9000GW, 9000GZ, 9000HD, 9000HE, 9000HF, 9000HJ, 9000HK, 9000HL, 9000HU, 9000HV, 9000HW, 9000HX, 9000HY, 9000HZ, 9000JA, 9000JB, 9000JE, 9000JK, 9000JF, 9000JV, 9000KF, 9000KG, 9000KK, 9000KM, 9000KN, 9000KP, 9000KS, 9000KW, 9000KW, 9000LE, 9000LF, 9000LF, 9000LP, 9000LT, 9000LX, 9000LZ, 9000MB are fully funded and performance under CLIN(s)/SLIN(s) is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable.

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

#### 5252.216-9122 LEVEL OF EFFORT (DEC 2000)

- (a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract could be total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort.
- (b) Of the total man-hours of direct labor set forth above, it is estimated that man-hours are uncompensated effort.

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

- (c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as local travel to and from an employee's usual work location, uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee's residence or other non-work locations (except as provided in paragraph (j) below), or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.
- (d) The level of effort shall be expended at an average rate of approximately man-hours / 52 weeks year). It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.
- (e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man-hours of effort specified above would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.
- (f) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total man-hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.
- (g) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the period of this contract, the Contracting Officer, at its sole discretion, shall either (i) reduce the fee of this contract as

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follows:

Fee Reduction = Fee (Required LOE-Expended LOE)

E ReqOuired L

- or (ii) subject to the provisions of the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable, require the Contractor to continue to perform the work until the total number of man-hours of direct labor specified in paragraph (a) above shall have been expended, at no increase in the fee of this contract.
- (h) The Contractor shall provide and maintain an accounting system, acceptable to the Administrative Contracting Officer and the Defense Contract Audit Agency (DCAA), which collects costs incurred and effort (compensated and uncompensated, if any) provided in fulfillment of the level of effort obligations of this contract. The Contractor shall indicate on each invoice the total level of effort claimed during the period covered by the invoice, separately identifying compensated effort and uncompensated effort, if any.
- (i) Within 45 days after completion of the work under each separately identified period of performance hereunder, the Contractor shall submit the following information in writing to the Contracting Officer with copies to the cognizant Contract Administration Office and to the DCAA office to which vouchers are submitted: (1) the total number of man-hours of direct labor expended during the applicable period; (2) a breakdown of this total showing the number of man-hours expended in each direct labor classification and associated direct and indirect costs; (3) a breakdown of other costs incurred; and (4) the Contractor's estimate of the total allowable cost incurred under the contract for the period. Within 45 days after completion of the work under the contract, the Contractor shall submit, in addition, in the case of a cost underrun; (5) the amount by which the estimated cost of this contract may be reduced to recover excess funds and, in the case of an underrun in hours specified as the total level of effort; and (6) a calculation of the appropriate fee reduction in accordance with this clause. All submissions shall include subcontractor information.
- (j) Unless the Contracting Officer determines that alternative worksite arrangements are detrimental to contract performance, the Contractor may perform up to 10% of the hours at an alternative worksite, provided the Contractor has a company-approved alternative worksite plan. The primary worksite is the traditional "main office" worksite. An alternative worksite means an employee's residence or a telecommuting center. A telecommuting center is a geographically convenient office setting as an alternative to an employee's main office. The Government reserves the right to review the Contractor's alternative worksite plan. In the event performance becomes unacceptable, the Contractor will be prohibited from counting the hours performed at the alternative worksite in fulfilling the total level of effort obligations of the contract. Regardless of work location, all contract terms and conditions, including security requirements and labor laws, remain in effect. The Government shall not incur any additional cost nor provide additional equipment for contract performance as a result of the Contractor's election to implement an alternative worksite plan.
- (k) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish man-hours up to five percent in excess of the total man-hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fee is required.

Note:: The total estimated level of effort of man-hours of direct labor specified in paragraph (a) above represents the **maximum** possible direct labor required under task order. The average burn rate of man-hours specified in paragraph (d) above represents the **anticipated** average expenditure of hours per week.

#### 5252.242-9115 TECHNICAL INSTRUCTIONS (APR 1999)

(a) Performance of the work hereunder may be subject to written technical instructions signed by the Contracting Officer's Representative specified in Section G of this contract. As used herein, technical instructions are defined to include the following:

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- (1) Directions to the Contractor which suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the contractual statement of work.
- (2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.
- (b) Technical instructions must be within the general scope of work stated in the contract. Technical instructions may not be used to: (1) assign additional work under the contract; (2) direct a change as defined in the "CHANGES" clause of this contract; (3) increase or decrease the contract price or estimated contract amount (including fee), as applicable, the level of effort, or the time required for contract performance; or (4) change any of the terms, conditions or specifications of the contract.
- (c) If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction unless and until the Contractor is notified by the Contracting Officer that the technical instruction is within the scope of this contract.
- (d) Nothing in the foregoing paragraph shall be construed to excuse the Contractor from performing that portion of the contractual work statement which is not affected by the disputed technical instruction.

# ORGANIZATIONAL CONFLICT OF INTEREST (NAVSEA) (JUL 2000) (RESTATED FROM BASIC CONTRACT)

- (a) "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes Corporations, Partnerships, Joint Ventures, and other business enterprises.
- (b) The Contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the Contractor does not have any organizational conflict of interest(s) as defined in paragraph (a).
- (c) It is recognized that the effort to be performed by the Contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid this potential conflict of interest, and at the same time to avoid prejudicing the best interest of the Government, the right of the Contractor to participate in future procurement of equipment and/or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR 9.5.
- (d) (1) The Contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the Government any information provided to the Contractor by the Government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the Government on a confidential basis by other persons. Further, the prohibition against release of Government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in Contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time.
- (2) The Contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the Government any information generated or derived during or as a result of performance of this contract. This prohibition shall expire after a period of three years after completion of performance of this contract.
- (3) The prohibitions contained in subparagraphs (d)(1) and (d)(2) shall apply with equal force to any affiliate of the Contractor, any subcontractor, consultant, or employee of the Contractor, any joint venture involving the Contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the Contractor. The terms of paragraph (f) of this Special Contract Requirement relating to notification shall apply to any release

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of information in contravention of this paragraph (d).

- (e) The Contractor further agrees that, during the performance of this contract and for a period of three years after completion of performance of this contract, the Contractor, any affiliate of the Contractor, any subcontractor, consultant, or employee of the Contractor, any joint venture involving the Contractor, any entity into or with which it may subsequently merge or affiliate, or any other successor or assign of the Contractor, shall not furnish to the United States Government, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or subcontractor, any system, component or services which is the subject of the work to be performed under this contract. This exclusion does not apply to any recompetition for those systems, components or services furnished pursuant to this contract. As provided in FAR 9.505-2, if the Government procures the system, component, or services on the basis of work statements growing out of the effort performed under this contract, from a source other than the contractor, subcontractor, affiliate, or assign of either, during the course of performance of this contract or before the three year period following completion of this contract has lapsed, the Contractor may, with the authorization of the SeaPort/Task Order Contracting Officer, participate in a subsequent procurement for the same system, component, or service. In other words, the Contractor may be authorized to compete for procurement(s) for systems, components or services subsequent to an intervening procurement.
- (f) The Contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest, it shall make immediate and full disclosure in writing to the SeaPort/Task Order Contracting Officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action which the Contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the SeaPort/Task Order Contracting Officer in making a determination on this matter. Notwithstanding this notification, the Government may terminate the contract/Task Orders for the convenience of the Government if determined to be in the best interest of the Government.
- (g) Notwithstanding paragraph (f) above, if the Contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become, aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the SeaPort/Task Order Contracting Officer, the Government may terminate this contract/task orders for default.
- (h) If the Contractor takes any action prohibited by this requirement or fails to take action required by this requirement, the Government may terminate this contract for default.
- (i) The SeaPort/Task Order's Contracting Officer's decision as to the existence or nonexistence of an actual or potential organizational conflict of interest shall be final.
- (j) Nothing in this requirement is intended to prohibit or preclude the Contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this contract; nor, shall this requirement preclude the Contractor from participating in any research and development or delivering any design development model or prototype of any such equipment. Additionally, sale of catalog or standard commercial items are exempt from this requirement.
- (k) The Contractor shall promptly notify the Contracting Officer, in writing, if it has been tasked to evaluate or advise the Government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the Government's interest.
- (l) The Contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contractor" where appropriate.
- (m) The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in the basic contract or this task order.
- (n) Compliance with this requirement is a material requirement of the basic contract and this task order.

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#### AWARD TERM CLAUSE

# (a) Maximum Period of Performance

The initial Task Order period of performance may be extended through the exercise of up to one option year and three award term years (years 2 through 5), as provided for in the Section I clause of this Task Order entitled OPTION TO EXTEND THE PERIOD OF PERFORMANCE and the Award Term provisions defined herein. These additional "award term" or "option" periods will be awarded by the Government based on contractor performance as determined by the Government in accordance with this clause.

# (b) Monitoring Performance

Contractor performance will be monitored by the Government. A panel hereinafter referred to as the Award Term Review Board or ATRB will be responsible for monitoring and will make recommendations to the Term Determining Official (TDO). The ATRB may accept monitoring input from any source it chooses. The ATRB may be changed at any time at the discretion of the TDO. Notice of such change will be provided to the contractor.

The ATRB shall be composed of the following:

- SEA05, or designee
- Task Order Manager (TOM), as defined in Section G of Task Order
- SEA05 personnel, as appointed
- Procuring Contracting Officer (PCO), SEA 02651 or designee

The ATRB will report its findings and recommendations to a TDO. The TDO will make the final decision on whether the contractor's performance during the evaluation period is sufficient to earn the contractor an award term or to retain an already earned term.

The TDO shall be SEA05B or his designee.

## (c) Award Term Evaluation Periods

Each year of performance shall be an evaluation period. Each of the first four years shall be evaluated to determine whether the contractor earns an award term. Years two through four will be evaluated to determine whether the contractor has retained award terms already earned.

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The Government will conduct an *interim* evaluation at approximately the half-way point of each evaluation period. These interim evaluations are intended to provide the contractor with the Government's assessment of the contractor's performance through the first half of each award term evaluation period.

A *final* evaluation will occur on an annual basis. The final evaluation will consider all effort that has occurred during the evaluation period. Only the final evaluation will be used as a basis for the award term decision.

## (d) Self-Evaluation

The Contractor shall submit to the PCO within fourteen working days after the end of each final evaluation period a written self-evaluation of its performance for that period. The written self-evaluation may contain any information that may be reasonably expected to assist the ATRB in evaluating the Contractor's performance. This self-evaluation will be considered in the ATRB's evaluation of the Contractor's performance.

## (e) Award Term Procedures

After the conclusion of an evaluation period, the ATRB will meet to evaluate the Contractor's performance, including the Contractor's self-evaluation. The Contractor may be invited to present information in addition to that contained in the self-evaluation to assist in the ATRB's evaluation. The criteria to be considered in the evaluation are set forth elsewhere in this Award Term clause.

A numerical score, on a scale of 0-100, will be determined for each of the evaluation criterion. The numerical weights for each evaluation criterion will be applied to the score. The weighted criteria scores will be summed to arrive at a total, weighted evaluation score. This score, along with any supporting narrative that may be prepared by the ATRB, will be provided to the TDO. The TDO will determine the final award term rating for an evaluation period. The Contracting Officer will inform the Contractor of the award term rating in a letter to the Contractor.

The contractor must receive a total evaluation rating score of 81 or higher to earn an award term year. If the overall evaluation rating score is 80 or below, the contractor shall not have earned an additional award term year for that evaluation period.

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## (f) Retention

The contractor must receive a total evaluation rating score of 81 or higher to retain an award term year. If the overall evaluation rating score is 80 or below, the contractor shall not have retained the award term year additional award term year for that evaluation period.

# (g) Finality of Decisions

Award Term decisions are at the sole discretion of the TDO. All decisions rendered by the TDO are final. The phrase "award term decision" refers to both the decision by the TDO whether the Contractor has earned an award term and the decision by the TDO whether the Contractor has retained an award term already earned. An award term decision is made at the sole discretion of the TDO.

#### (h) Fair and Reasonable Price A Necessary Condition

The Contracting Officer must determine that the price set forth in the Task Order for the services covered by the Task Order continues to be fair and reasonable for a given award term period. Such a decision is at the sole discretion of the PCO. A decision that the price is no longer fair and reasonable will result in the Government voiding any award terms earned. A determination regarding whether there is a continued need for the same goods or services may be made at any time.

#### (i) Option Exercise A Necessary Condition

If at any time the Government does not exercise an option, any previously awarded award term(s) shall be void.

## (j) Retention of Award Terms A Necessary Condition

If at any time the Contractor has not retained an award term already earned, any subsequent terms shall be void.

#### (k) Continued Funds A Necessary Condition

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The PCO must make a determination that sufficient funds are available before an award term that has been earned and retained may be become effective. The determination that sufficient funds are available does not constitute a finding that funds equal to the full total estimated cost of performance for a given year are available. Award term periods may be incrementally funded. In the event of incremental funding, the clause entitled LIMITATION OF FUNDS (FAR 52.232-22 (April 1984) shall apply.

The decision that sufficient funds are available is at the sole discretion of the PCO. Resources available to the program manager are subject to the managerial discretion of a program manager and a decision that sufficient funds are not available for this contract may be made even if there are funds available to the program office. A determination regarding the availability of funds may be made at any time.

# (l) Continued Requirement A Necessary Condition

The Contracting Officer must determine that a continued need for the same services covered by this Task Order exists for a given award term period. Such a decision is at the sole discretion of the Contracting Officer. A decision that the requirement has changed or that a requirement for the same goods or services no longer exists will result in the Government voiding any award terms earned. A determination regarding whether there is a continued need for the same services may be made at any time.

## (m) Failure to Retain Earned Award Terms Not a Termination

If at any time the Government does not authorize performance of a previously earned award term, the subsequent terms shall be considered void. The Contractor shall not be entitled to any costs arising out of or related to those award terms that are made void by virtue of the operation of this clause. An award term decision that an earned award term has not been retained is not a termination for convenience. A decision by the PCO that any of the necessary conditions of this clause have not been satisfied is not a termination for convenience. For example, if the Contractor has earned three award terms but the Government fails to exercise the option for the fifth year of the contract, then the contract shall end at the completion of the period of performance for the fourth year.

## (n) Contractor Right to Decline

The contractor retains the right to decline any award term earned, even after award and/or retention, *prior to* 15 months before the start of an award term year. The Contractor must notify the PCO in writing prior to 15 months before the start of the award term year of its desire not to

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perform the next award term year. Failure to so notify the PCO may result in a default termination if the Contractor fails to perform an award term that the Government has authorized. In the event the Contractor elects its rights to decline an earned award term, all award terms shall be void.

## (o) Extension of the Task Order

The PCO will unilaterally modify the contract to extend the period of performance in one-year increments when each of the following conditions apply:

- an award term earned has been retained;
- the Government has a continuing requirement for the service(s) covered;
- the price established for the covered line items remains fair and reasonable;
- appropriated funds are available;
- the Contractor has not expressly stated in writing that it is unwilling to perform an award term no later than fifteen months before the beginning of an award term period.

# (p) Evaluation Criteria

Evaluation Categories and Factors. Following each evaluation period, the Contractor's performance will be evaluated in the following categories, weighted as shown:

# **EVALUATION CATEGORY WGT**

Cost Performance 25%

Schedule Performance 25%

**Technical Performance 25%** 

Subcontract Performance 25%

The Government may unilaterally change any evaluation categories, weights, or factors it deems necessary. The Contractor, however, will be notified of changes prior to the beginning of an affected evaluation period. Unsatisfactory performance in any evaluation category may result in an increased weight for that category in subsequent evaluation periods.

### AWARD TERM PLAN

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This is the basis for evaluation of the contractor's performance and for presenting an assessment of that performance to the term-determining official (TDO). The evaluation for the number of term points to be awarded will begin at the start of the Task Order.

Award-term contracting is effective when performance metrics are objective, a long-term business relationship is of value to the government and to the contractor, and the expected outcomes are known up-front. The specific criteria and procedures used for assessing the contractor's performance and for determining the award term earned are described herein. All TDO decisions regarding the award-term points—including, but not limited to, the number of points, if any; the methodology used to calculate the points; the calculation of the points; the contractor's entitlement to the points: and the nature and success of the contractor's performance—are final and not subject to dispute.

The award term will be provided to the supplier through unilateral task order modifications based upon points earned as determined by the TDO.

### 2.0 ORGANIZATION

The award-term organization includes the TDO and an Award-Term Review Board (ATRB) consisting of a chairperson, the contracting officer, a recorder, other functional area participants, advisory members, and the performance monitors.

#### 3.0 RESPONSIBILITIES

- a. Term-Determining Official. The TDO approves the award-term plan and any significant changes to it. The TDO reviews the recommendations of the ATRB, considers all pertinent data, and determines the earned award-term points for each evaluation period. The TDO appoints the ATRB chairperson.
- b. Award-Term Review Board Chairperson. The ATRB chairperson chairs the meetings of the ATRB and appoints the non-mandatory members of the board and the performance monitors. The ATRB chairperson briefs the TDO on recommended earned term amounts and the contractor's overall performance and recommends award-term plan changes to the TDO.
- c. Award-Term Review Board. ATRB members review performance monitors' evaluation of the contractor's performance, consider all information from pertinent sources and arrive at the earned award-term points recommendation to be presented to the TDO. The ATRB will also recommend changes to this plan. An assessment of the contractor's performance will be done on a yearly basis, starting with the completion of the Base Period of this task order.
- d. ATRB Recorder. The ATRB recorder is responsible for coordinating the administrative actions required by the performance monitors, the ATRB, and the TDO.
- e. Contracting Officer (CO). The CO is the liaison between contractor and government personnel. Subsequent to the TDO decision, the CO evaluates the award-term points available and modifies the Task Order period of performance, if necessary, to reflect the decision.
- f. Performance Monitors. Performance monitors maintain written records of the contractor's performance in their assigned evaluation areas so that a fair and accurate evaluation is obtained.

### 4.0 AWARD-TERM PROCESSES

- a. Available Award-Term Points. The earned award-term points will be based on the contractor's performance during each evaluation period. The available points for each evaluation period are shown in Annex 2.
- b. Evaluation Criteria. If the CO does not give specific notice in writing to the contractor of any change to the evaluation criteria prior to the start of a new evaluation period, then the same criteria listed for the preceding period will be used in the following award-term evaluation period. Modifications to the plan shall take effect in

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the next evaluation period.

c. End-of-Period Evaluations. The ATRB recorder notifies ATRB members and performance monitors 14 calendar days before the end of the evaluation period. The contractor presents its self-assessment to the CO within 30 calendar days after the end of the evaluation period. This written assessment of the contractor's performance throughout the evaluation period may also contain any information that could be reasonably expected to assist the ATRB in evaluating its performance. The self-assessment may not exceed 20 pages. Performance monitors submit their evaluation reports to the ATRB within 30 calendar days after the end of the evaluation period. Copies shall be provided to the contractor; the contractor is then given an opportunity to address the performance monitor evaluations. The ATRB prepares its evaluation report and recommendation regarding earned or unearned award-term points. The ATRB briefs the evaluation report, and recommendation to the TDO within 60 calendar days after the end of the evaluation period. The TDO determines the overall award-term points for the evaluation period within 90 calendar days after each evaluation period. The TDO letter informs the contractor of the earned award-term points. Upon the award of sufficient award term-points, the CO issues a contract modification within 15 calendar days after the TDO's decision is made authorizing an award extension or reduction based on the earned or unearned award-term points.

### 5.0 AWARD-TERM PLAN CHANGE PROCEDURE

The TDO may unilaterally change this plan prior to the beginning of an evaluation period. In addition, the contractor may recommend changes to the plan no later than 30 days prior to the beginning of the new evalution period. The contractor will be notified of changes to the plan by a modification to the task order, before the start of the affected evaluation period. Changes to this plan that are applicable to a current evaluation period will be incorporated by the mutual consent of both parties.

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# AWARD TERM ORGANIZATION

Term Determining Official:	SEA 05B	
Award Term Review Board Chairperson: SEA 05 personnel		
Award Term Review Board Members:		
Member(s) SEA 05 personnel		
Contracting Officer SEA 0265 or representative		
Recorder	SEA 05 personnel	

Area of Evaluation Performance Monitor(s)		
Cost Performance	SEA 05 personnel	
Organization and Management	SEA 05 personnel	
Quality of Work/Schedule	SEA 05 personnel	

The Government reserves the right to make substitutes for award term organization members and performance monitors.

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### AWARD TERM ALLOCATION BY EVALUATION PERIODS

The award term earned by the contractor will be determined at the completion of evaluation periods shown below. The award term points shown corresponding to each period are the maximum available award term amount that can be earned during that particular period.

<b>Evaluation Period</b>	From	То	Available Award Term
			Points
FIRST	Task Order Award	12 months thereafter	100
SECOND	Exercise of Option 1	12 months thereafter	100
THIRD	Exercise of Award Term 1	12 months thereafter	100

A score of 85 award term points in an evaluation period = 1 award term option, with possibility of additional ceiling

A score between 85 and 60 award term points = 1 award term option, with no additional ceiling

A score between 40 and 60 award term points = 1 award term option award, with loss of one half of award term ceiling

A score of 40 or below in an evaluation period = no award term period extension and loss of half of any previously awarded term extensions

#### OVERALL GRADE DEFINITIONS AND CORRESPONDING AWARD TERM POINTS:

<u>Unsatisfactory Performance</u>: Contractor's performance of most contract tasks is inadequate and inconsistent. Quality, responsiveness, and timeliness in many areas require attention and action. Corrective actions have not been taken or are ineffective. Award Term Points: 0-40

<u>Marginal Performance:</u> Special initiatives or innovation add value to the government, raising score of an otherwise unsatisfactory performance to marginal. Conversely, exceptionally poor performance in any given area may render an otherwise satisfactory performance marginal. Award Term Points: 41-60

<u>Satisfactory Performance</u>: Contractor's performance of most contract tasks is adequate with tangible and intangible benefits to the Government. Most areas of performance are adequate; these are more or less offset by lower-rated performance in other areas. Award Term Points: 60-85

Excellent Performance: Contractor's performance of virtually all contract tasks is consistently noteworthy and provides numerous significant, tangible or intangible, benefits to the Government (e.g., improved quality, responsiveness, increased timeliness, or generally enhanced effectiveness of operations). The few areas for improvement are all minor. There are no recurring problems. Contractor's management initiates effective corrective action whenever needed. Award Term Points: 86-100

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# **EVALUATION CRITERIA**

Technical Excellence: 50% of Total

Cost Performance: 20% of Total

Management and Business Process and

Small Business Participation 30% of Total

# TECHNICAL EXCELLENCE

UNSATISFACTORY	SATISFACTORY	EXCELLENT
Contractor leaves questionable situations for Government to resolve.	Contractor follows guidance, questioning and resolving challenges.	Contractor's work of highest caliber incorporating all pertinent data required.
Contractor tends to follow past practices with no variation to meet requirements of the current contract.	Contractor displays knowledge of contract requirements and adapts existing processes to fulfill requirements.	Contractor displays exceptional knowledge of contract requirements and adaptability to work processes.
Deliverables are incomplete, contain inaccuracies and are untimely. Discrepancies are major and require extensive time and effort to correct.	Deliverables are complete, accurate and meet schedule requirements. Discrepancies are minor and easily corrected.	All deliverables are submitted on time or ahead of schedule, exceeding requirements and submitted in a format that is complete, clear, concise, technically accurate and easily understood. Any corrections are very minor in nature and are expeditiously corrected.
Fails to meet "satisfactory" standard for contractually required deliverable schedules. Fails to meet customer expectations for satisfying demands.	For 95% of deliverables, meets contractually required schedule. Meets customer expectations for satisfying demands.	Substantially reduces contractually required deliverable times, consistent with customer priority requests. Exceeds customer expectations for satisfying demands.

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# **COST PERFORMANCE:**

UNSATISFACTORY	SATISFACTORY	EXCELLENT
Funds and resources are used	Contractor provides measures for	Efforts to reduce staffing costs are
inefficiently in pursuing program	controlling all labor costs during	noteworthy. Funds and resources
goals and result in resource	the performance of the contract.	are optimally used to provide the
management problems. Contractor	Funds and resources are generally	maximum benefit for the funds
provides limited measures for	used in a cost-effective manner.	and resources available. Average
controlling staff and subcontracting	No major resource management	hourly invoiced costs are within
cost performance to meet program	problems are apparent. Average	5% of proposed rates unless they
objectives. Average hourly	hourly invoiced costs within 20%	reflect a variance in the required
invoiced costs exceed proposed	of proposed rates.	labor category utilization,
rates by over 20%.		documented in advance.
No apparent effort is made to	Contractor takes the initiative to	Efforts to reduce travel and
control travel or material costs.	reduce travel and material costs,	material costs are noteworthy.
	where feasible.	Contractor is responsive to cost
		control measures implemented by
		the Government.
Financial reporting is sometimes	Financial reporting is clear and	Financial reporting is clear,
late or inaccurate. Problems and/or	accurate. Problems and/or trends	accurate, and pro-active. Trends
trends may be addressed. When	are addressed, and an analysis is	are addressed thoroughly and
provided, analyses of problems or	also submitted.	savings are clearly documented.
trends are generally accurate.		Contractor provides detailed cost
		analysis and recommendations to
		Government for resolution to
		problems identified. Corrective
		plans are implemented and
		effective.
Contractor invoices are sometimes	Contractor invoices are submitted	Contractor invoices are clear and
submitted over 30 days past the	within the specified period.	accurate and are submitted within
period covered. Invoices are	Invoices are clear and accurate.	21 days of the end of the specified
sometimes rejected for accuracy or	m. sizes are crear and accurate.	period.
other concerns.		r

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# MANAGEMENT AND BUSINESS PROCESS

UNSATISFACTORY	SATISFACTORY	EXCELLENT
Contractor fails to identify	Problems are identified by the	Contractor practices proactive
problems in a timely manner.	contractor in a timely manner.	management to identify and
Solutions, when and if	Contractor provides sufficient	anticipate problems prior to
implemented, have a negative	information on alternate solutions.	adverse impact. Contractor
impact on cost and schedule.	Solutions are implemented with limited adverse impact to estimated cost and schedule.	provides organized and detailed alternatives including risk assessments, trade off analysis between cost, schedule and performance, plan of action and implementation schedule.  Solutions are implemented with no impact to estimated cost and schedule.
Lines of communication fail to facilitate timely exchange of information, both technical and contractual in order to meet project goals.	Lines of communication facilitate timely exchange of information, both technical and contractual in order to meet project goals.	Lines of communication are well defined, clearly understood, and always facilitate rapid exchanges of information, both technical and contractual, in order to meet project goals.
The contractor is unable to reliably identify and subcontract with qualified vendors. Subcontractor payments are often (>25%) late.	The contractor effectively executes the required purchasing and subcontract management actions. Subcontractor payments are sometimes (<25%) late.	The contractor provides responsive and compliant purchasing and subcontract management services. It reliably (for >90% of actions) makes payment on subcontractor invoices within the agreed period.
The contractor delivers less than half of the small business subcontracting (measured as a percentage of total cost to the government) proposed for this task order.	The contractor delivers at least half of the small business subcontracting proposed for this task order.	The contractor meets or exceeds its goal for small business subcontracting proposed for this task order.

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### CONTRACTOR SELF-ASSESSMENT REPORTING

The following metrics will be provided as part of the contractor prepared self assessment for each End-of-Period Evaluation.

**Average Labor Rate Delivered:** This is to be calculated as the total hours delivered divided into the total Cost Plus Fixed Fee for labor (CLINS 0001 & 0004) as reflected in the contractor's invoices for the period evaluated.

**Invoice History:** Provide, for each invoice submitted during the period evaluated:

- a) Date of Invoice.
- b) Period Covered.
- c) Current period cost and fee booked in the contractor's accounting system.
- d) Cumulative contract to date cost and fee booked in the contractor's accounting system.
- e) Amount of current period cost and fee invoiced.
- f) Cumulative contract to date cost and fee invoiced.
- g) Estimated cost and fee incurred for the current period.
- h) Estimated cost and fee incurred for the contract to date.
- i) Analysis of variance between incurred, booked, and invoiced amounts.

**<u>Subcontractor Payments</u>**: Provide the following information for the period evaluated:

- a) Number of subcontractor invoices received
- b) Number of subcontractor invoices rejected at least once.
- c) Average time to complete payment for a valid invoice
- d) Number of invoices paid within subcontract terms
- e) Number of invoices paid in excess of subcontract terms
- f) For e), the average and maximum days late

<u>Small Business Subcontractor Utilization</u>: Provide the most recently submitted SF294 data on task order subcontracting performance. If the most recent report predates the end of the period evaluated by more than 3 calendar months, provide an update as of the end of the evaluated period. In each case provide additional data quantifying the utilization of large, small, and the various special classes of small business as a percentage of the cost and fee invoiced for the period reported and cumulatively for the contract to date.

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# SEQUENCE OF EVENTS - AWARD TERM PROCESS

End-of-Period (EOP) Evaluations: End-of-Period Evaluations shall be provided at the end of the Base task order period and at the end of Option Period 1 and Award Term Period 1.

SCHEDULE	EVENT		
14 days prior to EOP	Recorder notifies each ATRB member and performance monitor.		
	Performance Monitors submit evaluation reports to ATRB.		
30 days after EOP			
	ATRB forwards a copy to Contractor.		
30 days after EOP	Contractor submits self-assessment to CO. Copy will be forwarded to ATRB.		
	ATRB briefs evaluation report and recommendation to the TDO.		
60 days after EOP			
	Contractor has opportunity to brief TDO.		
90 days after EOP	TDO informs contractor and CO of the earned award term points.		
15 days after TDO's			
decision	CO issues a contract modification reflecting award term extension, if earned.		

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#### SECTION I CONTRACT CLAUSES

In accordance with those contained in the Seaport E Multiple Award Contract (MAC) .

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(NAVSEA VARIATION) (MAR 2000)

(a) The Government may extend the term of this contract by written notice(s) to the Contractor within the periods specified below. If more than one option exists, each option is independent of any other option, and the Government has the right to unilaterally exercise any such option whether or not it has exercised other options.

Item	Option Item(s) Latest Exercise Date
4002AA	12 MATOA
4002AB	12 MATOA
6002AA	12 MATOA
6002AB	12 MATOA

- (b) If the Government exercises this option, the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any option(s) under this clause, shall not exceed five (5) years, however, in accordance with paragraph (g) of the requirement of this contract entitled "LEVEL OF EFFORT" (NAVSEA 5252.216-9122), if the total manhours delineated in paragraph (a) of the LEVEL OF EFFORT requirement, have not been expended within the period specified above, the Government may require the Contractor to continue to

perform the work until the total number of manhours specified in paragraph (a)of the aforementioned requirement have been expended.

### **FAR 52.244-2 -- Subcontracts (June 2007)**

- (a) Definitions. As used in this clause—
- "Approved purchasing system" means a Contractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR).
- "Consent to subcontract" means the Contracting Officer's written consent for the Contractor to enter into a particular subcontract.
- "Subcontract" means any contract, as defined in FAR <u>Subpart 2.1</u>, entered into by a subcontractor to furnish supplies or services for performance of the prime contractor a subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.
- (b) When this clause is included in a fixed-price type contract, consent to subcontract is required only on unpriced contract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (c) or (d) of this clause.
- (c) If the Contractor does not have an approved purchasing system, consent to subcontract is required for any subcontract that—
- (1) Is of the cost-reimbursement, time-and-materials, or labor-hour type; or
- (2) Is fixed-price and exceeds—
- (i) For a contract awarded by the Department of Defense, the Coast Guard, or the National Aeronautics and Space

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Administration, the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of the contract; or

- (ii) For a contract awarded by a civilian agency other than the Coast Guard and the National Aeronautics and Space Administration, either the simplified acquisition threshold or 5 percent of the total estimated cost of the contract.
- (d) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts:

CONTRACTS WITH ANY FIRM NOT INCLUDED IN PARAGRAPH (J). FOR ADDING TEAM MEMBERS TO THE TASK ORDER AFTER AWARD, THE TASK ORDER CONTRACTING OFFICER'S APPROVAL IS REQUIRED. THE TASK ORDER CONTRACTING OFFICER WILL DETERMINE THE DOCUMENTATION TO BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL.

- (e)(1) The Contractor shall notify the Contracting Officer reasonably in advance of placing any subcontract or modification thereof for which consent is required under paragraph (b), (c), or (d) of this clause, including the following information:
- (i) A description of the supplies or services to be subcontracted.
- (ii) Identification of the type of subcontract to be used.
- (iii) Identification of the proposed subcontractor.
- (iv) The proposed subcontract price.
- (v) The subcontractor's current, complete, and accurate cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other contract provisions.
- (vi) The subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this contract.
- (vii) A negotiation memorandum reflecting-
- (A) The principal elements of the subcontract price negotiations;
- (B) The most significant considerations controlling establishment of initial or revised prices;
- (C) The reason cost or pricing data were or were not required;
- (D) The extent, if any, to which the Contractor did not rely on the subcontractor's cost or pricing data in determining the price objective and in negotiating the final price;
- (E) The extent to which it was recognized in the negotiation that the subcontractor's cost or pricing data were not accurate, complete, or current; the action taken by the Contractor and the subcontractor; and the effect of any such defective data on the total price negotiated;
- (F) The reasons for any significant difference between the Contractor's price objective and the price negotiated; and
- (G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.
- (2) The Contractor is not required to notify the Contracting Officer in advance of entering into any subcontract for which consent is not required under paragraph (b), (c), or (d) of this clause.

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- (f) Unless the consent or approval specifically provides otherwise, neither consent by the Contracting Officer to any subcontract nor approval of the Contractor's purchasing system shall constitute a determination—
- (1) Of the acceptability of any subcontract terms or conditions;
- (2) Of the allowability of any cost under this contract; or
- (3) To relieve the Contractor of any responsibility for performing this contract.
- (g) No subcontract or modification thereof placed under this contract shall provide for payment on a cost-plus-apercentage-of-cost basis, and any fee payable under cost-reimbursement type subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).
- (h) The Contractor shall give the Contracting Officer immediate written notice of any action or suit filed and prompt notice of any claim made against the Contractor by any subcontractor or vendor that, in the opinion of the Contractor, may result in litigation related in any way to this contract, with respect to which the Contractor may be entitled to reimbursement from the Government.
- (i) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.
- (j) Paragraphs (c) and (e) of this clause do not apply to the following subcontracts, which were evaluated during negotiations

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# SECTION J LIST OF ATTACHMENTS

Attachment 1: FADS - Financial Accounting Data Sheet for Base Award (SCN)