

2. AMENDMENT/MODIFICATION NO. 29	3. EFFECTIVE DATE 05-Aug-2019	4. REQUISITION/PURCHASE REQ. NO. 1300805449	5. PROJECT NO. (If applicable) N/A
6. ISSUED BY CODE	N00024	7. ADMINISTERED BY (If other than Item 6) CODE	S2404A

Naval Sea Systems Command (NAVSEA) BUILDING 197, ROOM 5w-27301333 ISAAC HULL AVENUE SE WASHINGTON NAVY YARD DC 20376-2040	DCMA Manassas 14501 George Carter Way, 2nd Floor Chantilly VA 20151
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SCD: C

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) CACI, Inc.-Federal 14370 Newbrook Drive Chantilly VA 20151	9A. AMENDMENT OF SOLICITATION NO.  9B. DATED (SEE ITEM 11)  10A. MODIFICATION OF CONTRACT/ORDER NO. N00178-04-D-4030-EH08 10B. DATED (SEE ITEM 13) 01-Sep-2016
CAGE CODE 1QU78      FACILITY CODE	[X]

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

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)  
 SEE SECTION G

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

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

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  
 SEE PAGE 2

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

## GENERAL INFORMATION

The purposes of this Modification to Task Order N00178-04-D-4030-EH08-29 is to:

1. Establish SLIN 7000NZ and 9000NZ;
2. Transfer ceiling from SLIN 7000AA to fund SLIN 7000NZ;
3. Transfer ceiling from SLIN 9000AA to fund SLIN 9000NZ;
4. Update Section F, Period of Performance;
5. Update Section G, Accounting Data;
6. Update Section H, Allotment of fund Clause;
7. Update Section I, Contract Clauses;

Accordingly, said Task Order is hereby modified as follows:

1. Under Section B – Supplies or Services establish SLIN 0007NZ as follows:

Item	Labor Hours	Description	Start Date	End Date
7000NZ		Shipyards Study (FY 19 OMN)	8/5/2019	9/1/2020
9000NZ		Other Direct Costs in Support of SLIN 7000NZ (FY19 OMN)	8/5/2019	9/1/2020

2. Transfer ceiling from Labor Option SLIN 7000AA to fund SLIN 7000NZ as follows:

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

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

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

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

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

4. Under Section F, Deliveries or Performance, is hereby updated as follows:

CLIN/SLIN	Type Of Fund	Period of Performance
7000NZ	FY19 OMN	8/5/2019 - 9/1/2020
9000NZ	FY19 OMN	8/5/2019 - 9/1/2020

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

6. Under Section H – Special Contract Requirements, ALLOTMENT OF FUNDS (MAY 1993), add 7000NZ and 9000NZ to paragraph (c).

7. Under Section I – Contract Clauses, FAR Clause 52.244-2, update paragraph (j) to add via Modification 29, The Boston Consulting Group, Inc. (BCG).

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 \$87,319,136.86 by

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\$2,000,000.00 to \$89,319,136.86.

CLIN/SLIN	Type Of Fund	From (\$)	By (\$)	To (\$)
7000NZ				
9000NZ				

The total value of the order is hereby increased from \$102,769,598.31 by \$0.00 to \$102,769,598.31.

CLIN/SLIN	From (\$)	By (\$)	To (\$)
7000AA			
7000NZ			
9000AA			
9000NZ			

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

CLIN/SLIN	From	To
7000NZ		8/5/2019 - 9/1/2020
9000NZ		8/5/2019 - 9/1/2020

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**SECTION B SUPPLIES OR SERVICES AND PRICES**

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000		Additional Year - Ceiling					
7000AA	R499	Additional Year - Ceiling (Fund Type - TBD)					
7000AB	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5 (O&MN,N) (O&MN,N)					
7000AC	R499	Electronic Business Decision Management (eBDMS) E4, TS5 (O&MN,N) (O&MN,N)					
7000AD	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (O&MN,N) (O&MN,N)					
7000AE	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000AF	R499	SEA 05Z Program Support E2,PM1,EM4 (O&MN,N) (O&MN,N)					
7000AG	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000AH	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000AJ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) (O&MN,N)					
7000AK	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) (O&MN,N)					
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)					
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)					
7000AN	R499	PMS325 Boat Engineering and Program Management Support E10,PM1,PM2,PM3 and PS2 (O&MN,N) (O&MN,N)					
7000AP	R499	PMS325 Boat Engineering and Program Management Support E10,PM1,PM2,PM3 and PS2 (O&MN,N) (O&MN,N)					
7000AQ	R499	SEA 05T FRR-DP Program and Financial Management. PM1, PM2, EM4 (FY16 RDTE) (RDT&E)					
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)					
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)					
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)					
7000AU	R499	Strike Force Interoperability C5IMP Support PM1-3, PM6 E3, E4 (FY16 RDTE) (RDT&E)					
7000AV	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4,TS5 (FY16 RDTE) (RDT&E)					
7000AW	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4,TS5 (FY16 RDTE) (RDT&E)					
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)					
7000AY	R499	SEA 05T Technology Office Support PM1, PM2, PM4, PM5, EM4, EM6. (FY16 RDTE) (RDT&E)					
7000AZ	R499	PMS 420 LSC Mission Package Cost Support to SEA 05C PM2 and TS9 (FY16 RDTE) (RDT&E)					
7000BB	R499	Littoral Combat Ship (LCS) Cost Estimating Support/ Analysis Task PM2 and TS9 (FY16 RDTE) (RDT&E)					
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)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000BD	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY16 RDTE) (RDT&E)					
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)					
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)					
7000BH	R499	ZUMWALT Class ship Design Manager Support. E2 (FY15 SCN) (SCN)					
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)					
7000BK	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY16 NDSF) (NDSF)					
7000BL	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY16 NDSF) (NDSF)					
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)					
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)					
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)					
7000BQ	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
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)					
7000BS	R499	FMC Systems and Logistics Engineering Support E1-E6 and TS5 (FMS ADMIN) (FMS Case #XX-X-XXX)					
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)					
7000BV	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000BW	R499	SEA 05Z Program Support PM 1- and EM4 (O&MN,N) (O&MN,N)					
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)					
7000BY	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) (O&MN,N)					
7000BZ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4. (O&MN,N) (O&MN,N)					
7000CA	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000CB	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000CC	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000CD	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
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)					
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)					
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)					
7000CH	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY 16 RDTE) (RDT&E)					
7000CJ	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) and Force Level Safety Support E4 and TS5. (FY16 RDT&E) (RDT&E)					
7000CK	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) and Force Level Safety Support E4 and TS5. (FY16 RDTE) (RDT&E)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000CL	R499	Littoral Combat Ship (LCS) Cost Estimating Support/ Analysis Task PM2 and TS9. (FY 16 RDTE) (RDT&E)					
7000CM	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY 16 RDTE) (RDT&E)					
7000CN	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY16 RDTE) (RDT&E)					
7000CP	R499	SEA 05C Cost Support for PEO IWS 1.0 Aegis Modernization, Task TS9 (FY 16 RDTE) (RDT&E)					
7000CQ	R499	SEA 05C Cost Support for PEO IWS 10.0 QRCC program, Task TS9(FY 16 RDTE) (RDT&E)					
7000CR	R499	SEA 05C Cost Support for PEO IWS 6.0 Laser for Navy Application ,Task TS9 (FY16 RDTE) (RDT&E)					
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)					
7000CT	R499	Combat system integration Systems Engineering Team Support E4, TS5 (FY16 RDTE) (RDT&E)					
7000CU	R499	SEA 05C Cost Support for PEO IWS 2.0 (FY 16 OPN) (OPN)					
7000CV	R499	SEA 05C Cost Support for PEO IWS 6.0 (FY 15 OPN) (OPN)					
7000CW	R499	SEA 05C Cost Support for PEO IWS 6.0 TS9 (FY 16 OPN) (OPN)					
7000CX	R499	SEA 05C Cost Support for PEO IWS 6.0 TS9 (O&MN,N) (O&MN,N)					
7000CY	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY 15 SCN) (SCN)					
7000CZ	R499	Littoral Combat Ship (LCS) Cost Estimating Support/ Analysis Task PM2 and TS9. (FY 15 SCN)) (SCN)					
7000DA	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9(FY15 SCN) (SCN)					
7000DB	R499	SEA 05C Cost Support for PEO IWS 6.0 TS9 (FY12 SCN) (SCN)					
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)					
7000DD	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY16 NDSF) (NDSF)					
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)					
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)					
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)					
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)					
7000DJ	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (FY14 OPN) (OPN)					
7000DK	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (WCF) (WCF)					
7000DL	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000DM	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5 (O&MN,N) (O&MN,N)	5				
7000DN	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
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)					
7000DQ	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000DR	R499	(PMS 505) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)					
7000DS	R499	(PEO LCS) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)					
7000DT	R499	(PMS 495) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)					
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)					
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)					
7000DW	R499	SEA 05T FRR-DP Program and Financial Management PM1, PM2, EM4 (FY16 RDTE) (RDT&E)					
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)					
7000DY	R499	(PMS 515) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY16 RDTE) (RDT&E)					
7000DZ	R499	T-ATF Engineering and Project Management Support. E1, E2, E4, E5, E7,E9, E10, E11, E13, E17, E24, PM1, PM2, EM1, EM2, EM3, and TS1 (FY15 RDTE) (RDT&E)					
7000EA	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY16 RDTE) (RDT&E)					
7000EB	R499	SEA 05 Cost Support for PEO IWS 3.0 Railgun, TS9 (FY16 RDTE) (RDT&E)					
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)					
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)					
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)					
7000EF	R499	DDG 51 Class Ship Design Manager Technical Support E2, E3, E5, E6, E7, E8, E9, E11, E12, E17 (FY13 SCN) (SCN)					
7000EG	R499	PMS 325 Service Craft and Targets Engineering and Project Management Support. E2, E10, PM1, PM2, PM3, PM6, PM7, PS2 (FY16 SCN) (SCN)					
7000EH	R499	AGOR Engineering and Program Management Support. E10, PM1, PM2, PM6, PM7, PM9, EM2, EM4, TS5 (FY12 SCN) (SCN)					
7000EJ	R499	(PMS 501) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY15 SCN) (SCN)					
7000EK	R499	(PMS 501) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY15 SCN) (SCN)					
7000EL	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (FY15 OPN OCF) (OPN)					
7000EM	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (O&MN,N OCF) N3131A16WR00112 (O&MN,N)					
7000EN	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 (O&MN,N OCF) (O&MN,N)					
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)					
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)					
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)					
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)					
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)					



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7000EU	R499	Engineering in Support of the LSC Acquisition and Lifecycle Program E1-E8,PM1-PM7 (FMS ADMIN) (FMS Case #XX-X-XXX)					
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)					
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)					
7000EX	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)					
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)					
7000FA	R499	SEA 05Z Program Support. E2, EM4, PM1 (O&M,N) (O&MN,N)					
7000FC	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000FD	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000FE	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
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)					
7000FG	R499	SEA 05T Marine Engineering. Provide Technical and Programmatic Support (SBIR) PM 1-2, EM3-4, TL1-2. (FY16 RDTE) (RDT&E)					
7000FH	R499	SEA 05T FRR-DP Program and Financial Management PM1,PM2,EM4 (FY17 RDTE) (RDT&E)					
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)					
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)					
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)					
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)					
7000FN	R499	SEA 05C Cost Support for PEO IWS 1.0 Aegis Modernization, Task TS9 (O&MN,N) (O&MN,N)					
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)					
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)					
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)					
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)					
7000FT	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis. TS9 (FY15 SCN) (SCN)					
7000FU	R499	Littoral Combat Ship (LSC) Cost Estimating Support/Analysis Task PM2 and TS9. (FY 16 SCN) (SCN)					
7000FV	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY16 SCN) (SCN)					
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)					
7000FX	R499	ZUMWALT Class Ship Design Manager Support E2 (FY17 SCN) (SCN)					
7000FY	R499	Engineering Support for USNS Puller (ESB3) PS1 and PS2. (FY16 NDSF) (NDSF)					
7000FZ	R499	USCG Acquisition Programmatic & Technical Support, Polar Ice Breaker Phase 2 Studies.					

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		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)					
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)					
7000GC	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY17 RDTE) (RDT&E)					
7000GD	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. FY17 OMN (O&MN, N)					
7000GE	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY17 RDTE) (RDT&E)					
7000GF	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (FY17 OMN) (O&MN, N)					
7000GG	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5, EM4, E2 (O&MN, N) (O&MN, N)					
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)					
7000GJ	R499	Electronic Business Decision Management (eBDMS) E4, TS5 (O&MN, N) (O&MN, N)					
7000GK	R499	PMS325 Boat Engineering and Project Management Support E10, PM1, PM2, PM3 and PS2 (O&MN, N) (O&MN, N)					
7000GL	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4, TS5 (FY17 RDTE) (RDT&E)					
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)					
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)					
7000GP	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FY17 RDTE) (RDT&E)					
7000GQ	R499	LHA 8 Cost Estimating and Analysis Support to SEA 05C TS9 (FY17 RDTE) (RDT&E)					
7000GR	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4 and TS5. (FY17 RDT&E) (RDT&E)					
7000GS	R499	Systems Engineering Team Support E4, TS5 (FY17 RDTE) (RDT&E)					
7000GT	R499	OPLOG Technical and Programmatic Oversight and Support. E12, PM3, TS8. (FY17 RDTE) (RDT&E)					
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)					
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)					
7000GW	R499	PMS325 Boat Engineering and Program Management Support E10, PM1, PM2, PM3 and PS2 (FY17 OPN) (OPN)					
7000GX	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN, N) (O&MN, N)					
7000GY	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN, N) (O&MN, N)					
7000GZ	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN, N) (O&MN, N)					
7000HA	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9. (FMS ADMIN) (FMS Case #XX-X-XXX)					
7000HB	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN, N) (O&MN, N)					
7000HC	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN, N) (O&MN, N)					
7000HD	R499	Afloat Cybersecurity Program Management Support PM1, PM2, PM3, PM4, TL2 (FY17 RDTE) (RDT&E)					

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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)					
7000HF	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000HJ	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3,PS2 (O&MN,N) (O&MN,N)					
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)					
7000HL	R499	SEA 05T Marine Engineering. Provide Technical and Programmatic Support (SBIR) PM1-2, EM3-4, TL1-2. (FY16 RDTE) (RDT&E)					
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)					
7000HP	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY RDTE) (RDT&E)					
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)					
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)					
7000HS	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3,PS2 (FY15 OPN) (OPN)					
7000HT	R499	Engineering support for USNS Puller (ESB3)PS1 and PS2. (FY16 NDSF) (NDSF)					
7000HU	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3,PS2 (FY15 OPN) (OPN)					
7000HV	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. OCF (O&MN,N) DWAM62955 (O&MN,N)					
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)					
7000HX	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 OCF (FY16 RDTE) 11004866 (RDT&E)					
7000HY	R499	PMS 325 Boats Engineering and Project Management Support E10,PM1,PM2,PM3, PS2 OCF (O&MN,N) RP000517RXS0044 (O&MN,N)					
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)					
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)					
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)					
7000JD	R499	SEA 05Z Program Support. E2,EM4, PM1 (O&MN,N) U.S.C. 2410(a) Invoked (O&MN,N)					
7000JE	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000JF	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000JG	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000JH	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) (O&MN,N)					
7000JJ	R499	SEA 05C Cost Support for PEO IWS 1.0 Aegis Modernization, Task TS9 (O&MN,N) (O&MN,N)					
7000JK	R499	Technical Standards Processing, HM & E Standards Engineering, Business and Financial Management PM5,EM4,E2 (O&MN,N) (O&MN,N)					
7000JL	R499	SEA 05Z Marine Engineering PM 1-2, EM4 and EM20 (O&MN,N) U.S.C. 2410(a) Invoked (O&MN,N)					
7000JM	R499	SEA 05Z Program Support. E2,E9,E13,PM1,PM2,PM4,PM5,EM4,EM6 (O&MN,N) (O&MN,N)					

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7000JN	R499	SEA 05Z Program Support. E2,E9,E13,PM1,PM2,PM4,PM5,EM4,EM6 (O&MN,N) (O&MN,N)					
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)					
7000JQ	R499	Ship Design (SDM) and Systems Intergration Manager (SIM) Manual Update EM3 (O&MN,N) (O&MN,N)					
7000JR	R499	LHA 8 Cost Estimating and Analysis Support to SEA 05C TS9 (FY17 RDTE) (RDT&E)					
7000JS	R499	SEA 05T Marine Engineering. Provide Technical and Programmatic Support(SBIR) PM1-2, EM3-4, TL1-2 (FY17 RDTE) (RDT&E)					
7000JT	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&M,N) (O&MN,N)					
7000JU	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(O&MN,N) (O&MN,N)					
7000JV	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000JW	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000JX	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000JY	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000JZ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000KA	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000KB	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000KC	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000KD	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (OPN) (OPN)					
7000KE	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (OPN) (OPN)					
7000KF	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(O&MN,N) (O&MN,N)					
7000KG	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(O&MN,N) (O&MN,N)					
7000KH	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4. (O&MN,N) (O&MN,N)					
7000KJ	R499	SEA 05T FRR-DP Program and Financial Management PM1,PM2,EM4 (FY 17 RDTE) (RDT&E)					
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)					
7000KL	R499	SEA 05T FRR-DP Program and Financial Management PM1, PM2, EM4 (FY18 RDTE) (RDT&E)					
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)					
7000KN	R499	Tactical Information Coordinator Technical Aid (TIC TECHAID) Support E4,TS5 (FY18 RDTE) (RDT&E)					
7000KP	R499	Systems Engineering Team Support E4, TS5 (FY18 RDT&E) (RDT&E)					
7000KQ	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY18 RDTE) (RDT&E)					
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)					

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7000KS	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY 18 RDTE) (RDT&E)					
7000KT	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY 17 RDTE) (RDT&E)					
7000KU	R499	(PMS 505) Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY 17 OPN) (OPN)					
7000KV	R499	DDG 51 SEA 05 Cost Support for PEOs TS9 (FY13 SCN) (SCN)					
7000KW	R499	DDG 123 Combat System Requirement Definition and System Technology Assessment. Provide Engineering Support PM2 and E4(FY16 SCN) (SCN)					
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)					
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)					
7000KZ	R499	Strike Force Interoperability C5IMP Support. PM1-PM3, PM6, E3 and E4(FY18 RDTE) (RDT&E)					
7000LB	R499	SEA 05 ACIO Program Management Support. EM4 and PM1(FY18 RDTE) (RDT&E)					
7000LC	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis. TS9 (FY15 SCN) (SCN)					
7000LD	R499	Ship-to-Shore Connector (SSC)Cost Estimating and Analysis. TS( (FY18 SCN) (SCN)					
7000LE	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
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)					
7000LG	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000LH	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000LJ	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000LK	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000LM	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
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)					
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)					
7000LQ	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY18 RDTE) (RDT&E)					
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)					
7000LS	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN,N) (O&MN,N)					
7000LT	R499	SEA 05Z Program Support. E2, E9, E13, PM1, PM2, PM4, PM5, PM6 (O&MN,N) (O&MN,N)					
7000LU	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000LV	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000LW	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis(FMS ADMIN) (FMS Case #XX-X-XXX)					
7000LX	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000LY	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000LZ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
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)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000MB	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4 (O&MN,N) (O&MN,N)					
7000MC	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)					
7000MD	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000ME	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000MF	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MG	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MH	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MJ	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MK	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000ML	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MM	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MN	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000MP	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY18 RDTE) (RDT&E)					
7000MQ	R499	LHA (R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY19 RDTE) (RDT&E)					
7000MR	R499	SEA 05 Cost Support PEO IWS 10.0 TS9 (FY19 RDTE) (RDT&E)					
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)					
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)					
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)					
7000MV	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9 (FY15 SCN) (SCN)					
7000MW	R499	Ship-to-Shore Connector (SSC) Cost Estimating and Analysis TS9 (FY18 SCN) (SCN)					
7000MX	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000MY	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000MZ	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000NA	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000NB	R499	SEA 05Z Marine Engineering PM 1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000NC	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)					
7000ND	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000NE	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000NF	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)					
7000NG	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (O&MN,N) (O&MN,N)					
7000NH	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY19 RDTE) (RDT&E)					
7000NJ	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FMS ADMIN) (FMS Case #XX-X-XXX)					
7000NK	R499	DDG 51 SEA 05 Cost Support for PEOs TS9 (FY14 SCN) (SCN)					

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
7000NL	R499	LHA(R) Cost Estimating and Analysis Support to SEA 05C TS9 (FY19 RDT&E) (RDT&E)					
7000NM	R499	SEA 05T Technology Group SIR/STTR Training Development, Outreach Capability and Program and Financial Management PM1,PM2,PM6,EM3,EM4,TS1,TL1,TL2 (FY18 RDTE) (RDT&E)					
7000NN	R499	Littoral Combat Ship (LCS) Cost Estimating Support/Analysis Task PM2 and TS9 (FY19 RDTE) (RDT&E)					
7000NP	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development(CPSD) Program and Financial Management (FY19 RDTE) (RDT&E)					
7000NQ	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development(CPSD) Program and Financial Management(FY19 RDTE) (RDT&E)					
7000NR	R499	SEA 05T Technology Group Design Exploration Model Cross Platform Systems Development(CPSD) Program and Financial Management(FY19 RDTE) (RDT&E)					
7000NS	R499	SEA 05Z Marine Engineering PM1, PM2 and PM4. (O&MN,N) (O&MN,N)					
7000NT	R499	SEA 05Z Program Support. E2,EM4,PM1 (O&MN,N) (O&MN,N)					
7000NU	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000NV	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)					
7000NW	R499	Office of CHENG Program and Financial Management PM1, PM2, PM3 and EM4 (O&MN,N) (O&MN,N)					
7000NX	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)					
7000NZ	R499	Shipyard Study (FY 19 OMN) (O&MN,N)					

For ODC Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
9000		ODCs in support of CLIN 7000			
9000AB	R499	Other Direct Costs in Support of SLIN 7000AB (O&MN,N) (O&MN,N)			
9000AC	R499	Other Direct Costs in Support of SLIN 7000AC (O&MN,N) (Fund Type - TBD)			
9000AD	R499	Other Direct Costs in Support of SLIN 7000AD (O&MN,N) (O&MN,N)			
9000AL	R499	Other Direct Costs in Support of SLIN 7000AL (O&MN,N) (O&MN,N)			
9000AM	R499	Other Direct Costs in Support of SLIN 7000AM(O&MN,N) (O&MN,N)			
9000AS	R499	Other Direct Costs in Support of SLIN 7000AS (FY16 RDTE) (RDT&E)			
9000AV	R499	Other Direct Costs in Support of SLIN 7000AV (FY16 RDTE) (RDT&E)			
9000AW	R499	Other Direct Costs in Support of SLIN 7000AW (FY16 RDTE) (RDT&E)			
9000AX	R499	Other Direct Costs in Support of SLIN 7000AX ( FY16 RDTE) (RDT&E)			
9000AZ	R499	Other Direct Costs in Support of SLIN 7000AZ (FY16 RDTE) (RDT&E)			
9000BA	R499	Other Direct Costs in Support of LSC Cost Estimating (FY16 RDTE) (RDT&E)			
9000BD	R499	Other Direct Costs in Support of SLIN 7000BD (FY16 RDTE) (RDT&E)	1		
9000BJ	R499	Other Direct Costs in Support of SLIN 7000BJ (FY15 SCN) (SCN)			
9000BM	R499	ODC in support of CLIN 7000 (OPN)			

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Item	PSC	Supplies/Services	Qty	Unit	Est.	Cost
9000BN	R499	ODC in support of CLIN 7000 (O&MN,N)				
9000BQ	R499	Other Direct Costs in Support of SLIN 7000BQ (O&MN,N) (O&MN,N)				
9000BU	R499	Other Direct Costs in Support of SLIN 7000BL (FY16 NDSF) (NDSF)				
9000BV	R499	Other Direct Costs in Support of SLIN 7000BV (O&MN,N) (O&MN,N)				
9000BX	R499	Other Direct Costs in Support of SLIN 7000BX (O&MN,N) (O&MN,N)				
9000CA	R499	Other Direct Costs in Support of SLIN 7000CA (O&MN,N) (O&MN,N)				
9000CE	R499	Other Direct Costs in Support of SLIN 7000CE (O&MN,N) (O&MN,N)				
9000CF	R499	Other Direct Costs in Support of SLIN 7000CF (FY16 RDTE) (RDT&E)				
9000CH	R499	ODCs in Support of SLIN 7000CH (FY16 RDTE) (RDT&E)				
9000CJ	R499	Other Direct Costs in Support of SLIN 7000CJ (FY16 RDTE) (RDT&E)				
9000CK	R499	Other Direct Costs in Support of SLIN 7000CK (FY16 RDTE) (RDT&E)				
9000CM	R499	Other Direct Costs in Support of SLIN 7000CM (FY16 RDTE) (RDT&E)				
9000CS	R499	Other Direct Costs in Support of SLIN 7000CS ( FY16 RDTE ) (RDT&E)				
9000CT	R499	ODC in support of CLIN 7000 (RDT&E)				
9000CY	R499	Other Direct Costs in Support of SLIN 7000CY (FY14 SCN) (SCN)				
9000CZ	R499	Other Direct Costs in Support of SLIN 7000CZ (FY14 SCN) (SCN)				
9000DD	R499	Other Direct Costs in Support of SLIN 7000DD (FY16 NDSF) (NDSF)				
9000DE	R499	Other Direct Costs in Support of SLIN 7000DE (FY16 RDTE OCF) N6887616RCRC008 (RDT&E)				
9000DJ	R499	Other Direct Costs in Support of SLIN 7000DJ (FY14 OPN) (OPN)				
9000DK	R499	Other Direct Costs in Support of SLIN 7000DK (WCF) (WCF)				
9000DL	R499	SEA 05 ACIO Program Management Support. EM4 and PM1 (O&MN,N) (O&MN,N)				
9000DM	R499	Other Direct Costs in Support of SLIN 7000DM (O&MN,N) (O&MN,N)				
9000DR	R499	Other Direct Costs in Support of SLIN 7000DR (FY16 O&MN,N) (O&MN,N)				
9000DU	R499	Other Direct Costs in Support of SLIN 7000DU (FY16 RDTE) (RDT&E)				
9000DY	R499	Other Direct Costs in Support of SLIN 7000DY ( FY16 RDTE) (RDT&E)				
9000DZ	R499	Other Direct Costs in Support of SLIN 7000DZ (FY15 RDTE) (RDT&E)				
9000EC	R499	Other Direct Costs in Support of SLIN 7000EC (FY15 SCN) (SCN)				
9000ED	R499	Other Direct Costs in Support of SLIN 7000ED (FY12 SCN) (SCN)				
9000EF	R499	Other Direct Costs in Support of SLIN 7000EF (FY13 SCN) (SCN)				
9000EH	R499	Other Direct Costs in Support of SLIN 7000EH (FY12 SCN) (SCN)				
9000EL	R499	Other Direct Costs in Support of SLIN 7000EL (OPN)				



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Item	PSC	Supplies/Services	Qty	Unit	Est.	Cost
9000EM	R499	Other Direct Costs in Support of SLIN 7000EM (FY16 O&MN,N OCF) N3131A16WR00112 (O&MN,N)				
9000EN	R499	Other Direct Costs in Support of SLIN 7000EN (FY16 O&MN,N OCF) (O&MN,N)				
9000EP	R499	Other Direct Costs in Support of SLIN 7000EP ( FY15 OPN OCF) N6230615RC00627 (OPN)				
9000EQ	R499	Other Direct Costs in Support of SLIN 7000EQ (FY16 O&MN,N OCF) N3241616RC0011P (O&MN,N)				
9000ES	R499	Other Direct Costs in Support of SLIN 7000ES (FY16 O&MN,N OCF) HSCG2316XAFR620 (O&MN,N)				
9000ET	R499	Other Direct Costs in Support of SLIN 7000ET (FY16 SCN) (SCN)				
9000EU	R499	Other Direct Costs in Support of SLIN 7000EU (FMS ADMIN) (FMS Case #XX-X-XXX)				
9000EV	R499	Other Direct Costs in Support of SLIN 7000EV (FMS ADMIN) (FMS Case #XX-X-XXX)				
9000EW	R499	Other Direct Costs in Support of SLIN 7000EW ( WCF OCF NUWC) (WCF)				
9000EX	R499	Other Direct Costs in Support of SLIN 7000EX (O&MN,N) (O&MN,N)				
9000EZ	R499	ODCs in Support of SLIN 7000EZ (O&MN,N) (O&MN,N)				
9000FB	R499	ODCs in Support of SLIN 7000FB(O&MN,N) (O&MN,N)				
9000FD	R499	ODCs in Support of SLIN 7000FD (O&MN,N) (O&MN,N)				
9000FF	R499	ODCs in Support of SLIN 7000FF(O&MN,N) (O&MN,N)				
9000FG	R499	ODCs in Support of SLIN 7000FG (FY16 RDTE) (RDT&E)				
9000FJ	R499	ODCs in Support of SLIN 7000FJ (RDTE)) (RDT&E)				
9000FM	R499	Other Direct Costs in Support of SLIN 7000FM (FY17 RDTE) (RDT&E)				
9000FP	R499	ODCs in Support of SLIN 7000FP (FY16 RDTE) (RDT&E)				
9000FQ	R499	Other Direct Costs in Support of SLIN 7000FQ (FY17 SCN) (SCN)				
9000FR	R499	Other Direct Costs in Support of SLIN 7000FR (FY 16 SCN) (SCN)				
9000FS	R499	Other Direct Costs in Support of SLIN 7000FS (FY 17 SCN) (SCN)				
9000FT	R499	ODCs in Support of SLIN 7000FT (FY15 SCN) (SCN)				
9000FX	R499	ODCs in Support of SLIN 7000FX (FY17 SCN) (SCN)				
9000GB	R499	Other Direct Costs in Support of SLIN 7000GB (FMS ADMIN) (FMS Case #XX-X-XXX)				
9000GC	R499	Other Direct Costs in Support of SLIN 7000GC (FY17 RDTE) (RDT&E)				
9000GE	R499	Other Direct Costs in Support of SLIN 7000GE (FY17 RDTE) (O&MN,N)				
9000GG	R499	Other Direct Costs in Support of SLIN 7000GG (O&MN,N) (O&MN,N)				
9000GJ	R499	Other Direct Costs in Support of SLIN 7000GJ (O&MN,N) (O&MN,N)				
9000GL	R499	ODC in support of CLIN 7000GL (RDT&E)				
9000GM	R499	Other Direct Costs in Support of SLIN 7000GM (FY17 RDTE) (RDT&E)				
9000GR	R499	Other Direct Costs in Support of SLIN 7000GS (FY17 RDTE) (RDT&E)				
9000GS	R499	Other Direct Costs in Support of SLIN 7000GS (FY17 RDTE) (RDT&E)				
9000GT	R499	Other Direct Costs in Support of SLIN 7000GT (FY17 RDTE) (RDT&E)				

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Item	PSC	Supplies/Services	Qty	Unit	Est.	Cost
9000GV	R499	Other Direct Costs in Support of SLIN 7000GV (FY13 SCN) (SCN)				
9000GW	R499	Other Direct Costs in Support of SLIN 7000GW (FY17 OPN) (OPN)				
9000GZ	R499	Other Direct Costs in Support of SLIN 7000GZ (O&MN,N) (O&MN,N)				
9000HD	R499	Other Direct Costs in Support of SLIN 7000HD (FY17 RDTE) (RDT&E)				
9000HE	R499	Other Direct Costs in Support of SLIN 7000HE (O&MN,N) (O&MN,N)				
9000HF	R499	Other Direct Costs in Support of SLIN 7000HF (O&MN,N) (O&MN,N)				
9000HJ	R499	Other Direct Costs in Support of SLIN 7000HJ (O&MN,N) (O&MN,N)				
9000HK	R499	Other Direct Costs in Support of SLIN 7000HK (FY16 RDTE) (RDT&E)				
9000HL	R499	Other Direct Costs in Support of SLIN 7000HL (FY16 RDTE) (RDT&E)				
9000HU	R499	Other Direct Costs in Support of SLIN 7000HU (OCF FY15 OPN) (OPN)				
9000HV	R499	Other Direct Costs in Support of SLIN 7000HV OCF (O&MN,N) DWAM62955 (O&MN,N)				
9000HW	R499	Other Direct Costs in Support of SLIN 7000HW OCF (O&MN,N) N5005417RCB0002 (O&MN,N)				
9000HX	R499	Other Direct Costs in Support of SLIN 7000HX OCF (FY16 RDTE) 11004866 (RDT&E)				
9000HY	R499	Other Direct Costs in Support of SLIN 7000HY OCF (O&MN,N) RP000517RXS0044 (O&MN,N)				
9000HZ	R499	Other Direct Costs in Support of SLIN 7000HZ (FY15 OPN) N6230615RC00627 (OPN)				
9000JA	R499	Other Direct Costs in Support of SLIN 7000JA (OCF OMN) OMAO-PAD-00002 (O&MN,N)				
9000JB	R499	Other Direct Costs in Support of SLIN 7000JB (O&MN,N) (O&MN,N)				
9000JE	R499	Other Direct Costs in Support of SLIN 7000JE (O&MN,N) (O&MN,N)				
9000JG	R499	Other Direct Costs in Support of SLIN 7000JG (O&MN,N) (O&MN,N)				
9000JK	R499	Other Direct Costs in Support of SLIN 7000JK (O&MN,N) (O&MN,N)				
9000JP	R499	Other Direct Costs in Support of SLIN 7000JP (O&MN,N) (O&MN,N)				
9000JV	R499	Other Direct Costs in Support of SLIN 7000JV (O&MN,N) (O&MN,N)				
9000KF	R499	Other Direct Costs in Support of SLIN 7000KF (FY18 O&MN,N) (O&MN,N)				
9000KG	R499	Other Direct Costs in Support of SLIN 7000KG (FY18 O&MN,N) (O&MN,N)				
9000KK	R499	Other Direct Costs in Support of SLIN 7000KK (FY17 RDTE) (RDT&E)				
9000KM	R499	Other Direct Costs in Support of SLIN 7000KM (FY18 RDTE) (RDT&E)				
9000KN	R499	Other Direct Costs in Support of SLIN 7000KN (FY18 RDTE) (RDT&E)				
9000KP	R499	Other Direct Costs in Support of SLIN 7000KP (FY18 RDTE) (RDT&E)				
9000KS	R499	Other Direct Costs in Support of SLIN 7000KS (FY18 RDTE) (RDT&E)				

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Item	PSC	Supplies/Services	Qty	Unit	Est.	Cost
9000KU	R499	Other Direct Costs in Support of SLIN 7000KU (FY17 OPN) (OPN)				
9000KW	R499	Other Direct Costs in Support of SLIN 7000KW (FY16 SCN) (SCN)				
9000KZ	R499	Other Direct Costs in Support of SLIN 7000KZ (FY18 RDTE) (RDT&E)				
9000LE	R499	Other Direct Costs in Support of SLIN 7000LE (O&MN,N) (O&MN,N)				
9000LF	R499	ODC in support of CLIN 7000 (RDT&E)				
9000LN	R499	Other Direct Costs in Support of SLIN 7000LN (FY18 RDTE) (RDT&E)				
9000LP	R499	Other Direct Costs in Support of SLIN 7000LP (FY18 RDTE) (RDT&E)				
9000LT	R499	Other Direct Costs in Support of SLIN 7000LT (FY18 O&M,N) (O&MN,N)				
9000LX	R499	Other Direct Costs in Support of SLIN 7000LX (O&MN,N) (O&MN,N)				
9000LZ	R499	Other Direct Costs in Support of SLIN 7000LZ (O&MN,N) (O&MN,N)				
9000MB	R499	Other Direct Costs in Support of SLIN 7000MB (O&MN,N) (O&MN,N)				
9000MX	R499	Other Direct Costs in Support of SLIN 7000MX (O&MN,N) (O&MN,N)				
9000MZ	R499	Other Direct Costs in Support of SLIN 7000MZ (O&MN,N) (O&MN,N)				
9000NC	R499	Other Direct Costs in Support of SLIN 7000NC (O&MN,N) (O&MN,N)				
9000NG	R499	Other Direct Costs in Support of SLIN 7000NG (O&MN,N) (O&MN,N)				
9000NL	R499	Other Direct Costs in Support of SLIN 7000NL (RDT&E) (RDT&E)				
9000NM	R499	Other Direct Costs in Support of SLIN 7000NM (FY18 RDTE) (RDT&E)				
9000NQ	R499	Other Direct Costs in Support of SLIN 7000NQ (FY19 RDTE) (RDT&E)				
9000NS	R499	Other Direct Costs in Support of SLIN 7000NS (O&MN,N) (O&MN,N)				
9000NT	R499	Other Direct Costs in Support of SLIN 7000NT (O&MN,N) (O&MN,N)				
9000NU	R499	Other Direct Costs in Support of SLIN 7000NU (O&MN,N) (O&MN,N)				
9000NX	R499	Other Direct Costs in Support of SLIN 7000NX (FY19 RDTE) (RDT&E)				
9000NZ	R499	Other Direct Costs in Support of SLIN 7000NZ (FY 19 OMN) (O&MN,N)				

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.

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

- Large business prime contractors shall perform a minimum of 40% of the total work effort.
- 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 provide 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 its 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 than 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:

7000AA	3/24/2016 - 9/1/2020
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
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

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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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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

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7000HE	6/2/2017 - 6/1/2018
7000HF	6/2/2017 - 6/1/2018
7000HJ	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
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
7000KB	9/28/2017 - 9/1/2018
7000KC	9/28/2017 - 9/1/2018

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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
7000LY	9/10/2018 - 9/1/2019
7000LZ	9/10/2018 - 9/1/2019

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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
7000MX	1/14/2019 - 9/1/2019
7000MY	1/14/2019 - 9/1/2019
7000MZ	1/14/2019 - 9/1/2019
7000NA	1/14/2019 - 9/1/2019
7000NB	1/14/2019 - 9/1/2019
7000NC	1/14/2019 - 9/1/2020
7000ND	1/14/2019 - 9/1/2019
7000NE	1/14/2019 - 9/1/2019
7000NF	1/14/2019 - 9/1/2019
7000NG	1/30/2019 - 9/1/2019
7000NH	2/2/2019 - 9/1/2019
7000NJ	2/5/2019 - 9/1/2019
7000NK	2/5/2019 - 9/1/2019
7000NL	3/7/2019 - 9/1/2020
7000NM	4/11/2019 - 4/10/2020
7000NN	5/20/2019 - 9/1/2020
7000NP	5/20/2019 - 9/1/2020
7000NQ	5/20/2019 - 9/1/2020
7000NR	5/20/2019 - 9/1/2020
7000NS	7/16/2019 - 12/31/2019
7000NT	7/16/2019 - 12/31/2019
7000NU	7/16/2019 - 12/31/2019

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7000NV	7/16/2019 - 12/31/2019
7000NW	7/16/2019 - 12/31/2019
7000NX	7/12/2019 - 12/31/2019
7000NZ	8/5/2019 - 9/1/2020
9000AA	3/24/2016 - 9/1/2020
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
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

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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
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

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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
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
9000MX	1/14/2019 - 9/1/2019
9000MZ	1/14/2019 - 9/1/2019
9000NC	1/14/2019 - 9/1/2020
9000NG	1/30/2019 - 9/1/2019
9000NL	3/7/2019 - 9/1/2020
9000NM	4/11/2019 - 4/10/2020

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9000NQ	5/20/2019 - 9/1/2020
9000NS	7/16/2019 - 12/31/2019
9000NT	7/16/2019 - 12/31/2019
9000NU	7/16/2019 - 12/31/2019
9000NX	7/12/2019 - 12/31/2019
9000NZ	8/5/2019 - 9/1/2020

#### 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 - 9/1/2020
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



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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
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

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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
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

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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
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

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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
7000HJ	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
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

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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
7000KB	9/28/2017 - 9/1/2018
7000KC	9/28/2017 - 9/1/2018
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

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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
7000MX	1/14/2019 - 9/1/2019
7000MY	1/14/2019 - 9/1/2019
7000MZ	1/14/2019 - 9/1/2019
7000NA	1/14/2019 - 9/1/2019
7000NB	1/14/2019 - 9/1/2019
7000NC	1/14/2019 - 9/1/2020
7000ND	1/14/2019 - 9/1/2019
7000NE	1/14/2019 - 9/1/2019
7000NF	1/14/2019 - 9/1/2019
7000NG	1/30/2019 - 9/1/2019
7000NH	2/2/2019 - 9/1/2019
7000NJ	2/5/2019 - 9/1/2019
7000NK	2/5/2019 - 9/1/2019

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7000NL	3/7/2019 - 9/1/2020
7000NM	4/11/2019 - 4/10/2020
7000NN	5/20/2019 - 9/1/2020
7000NP	5/20/2019 - 9/1/2020
7000NQ	5/20/2019 - 9/1/2020
7000NR	5/20/2019 - 9/1/2020
7000NS	7/16/2019 - 12/31/2019
7000NT	7/16/2019 - 12/31/2019
7000NU	7/16/2019 - 12/31/2019
7000NV	7/16/2019 - 12/31/2019
7000NW	7/16/2019 - 12/31/2019
7000NX	7/12/2019 - 12/31/2019
7000NZ	8/5/2019 - 9/1/2020
9000AA	3/24/2016 - 9/1/2020
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
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

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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
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



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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
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

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9000LX	9/10/2018 - 9/1/2019
9000LZ	9/10/2018 - 9/1/2019
9000MB	9/19/2018 - 9/1/2019
9000MX	1/14/2019 - 9/1/2019
9000MZ	1/14/2019 - 9/1/2019
9000NC	1/14/2019 - 9/1/2020
9000NG	1/30/2019 - 9/1/2019
9000NL	3/7/2019 - 9/1/2020
9000NM	4/11/2019 - 4/10/2020
9000NQ	5/20/2019 - 9/1/2020
9000NS	7/16/2019 - 12/31/2019
9000NT	7/16/2019 - 12/31/2019
9000NU	7/16/2019 - 12/31/2019
9000NX	7/12/2019 - 12/31/2019
9000NZ	8/5/2019 - 9/1/2020

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:

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 OFFICER'S REPRESENTATIVE (COR)**

**ALTERNATE CONTRACTING OFFICER'S REPRESENTATIVE (COR)**

**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 <https://wawf.eb.mil> provides the technology for government contractors and authorized Department of Defense (DoD) personnel to generate, capture and process receipt and payment-related documentation in a paperless environment. Invoices for supplies/services rendered under this contract shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices may no longer be accepted for payment.

(b) It is recommended that the person in your company designated as the Central Contractor Registration (CCR) Electronic Business (EB) Point of Contact and anyone responsible for the submission of invoices, use the online training system for WAWF at <http://wawftraining.com>. The Vendor, Group Administrator (GAM), and sections marked with an asterisk in the training system should be reviewed. Vendor Quick Reference Guides also are available at <http://acquisition.navy.mil/navyaos/content/view/full/3521/>. 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 <https://wawf.eb.mil>.

(d) The contractor shall use the following document types, DODAAC codes and inspection and acceptance locations when submitting invoices in WAWF:

Type of Document (*contracting officer check all that apply*)

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

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

Issue DODAAC	_____
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

(i) **(End of Text)**

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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, 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, 7000DQ, 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, 7000MX, 7000MY, 7000MZ, 7000NA, 7000NB, 7000NC, 7000ND, 7000NE, 7000NF, 7000NG, 7000NH, 7000NJ, 7000NK, 7000NL, 7000NM, 7000NN, 7000NP, 7000NQ, 7000NR, 7000NS, 7000NT, 7000NU, 7000NV, 7000NW, 7000NX, 7000NZ, 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,

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9000ED, 9000EF, 9000EH, 9000EL, 9000EM, 9000EN, 9000EP, 9000EQ, 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, 9000GW, 9000GZ, 9000HD, 9000HE, 9000HF, 9000HJ, 9000HK, 9000HL, 9000HU, 9000HV, 9000HW, 9000HX, 9000HY, 9000HZ, 9000JA, 9000JB, 9000JE, 9000JG, 9000JK, 9000JP, 9000JV, 9000KF, 9000KG, 9000KK, 9000KM, 9000KN, 9000KP, 9000KS, 9000KU, 9000KW, 9000KZ, 9000LE, 9000LF, 9000LN, 9000LP, 9000LT, 9000LX, 9000LZ, 9000MB, 9000MX, 9000MZ, 9000NC, 9000NG, 9000NL, 9000NM, 9000NQ, 9000NS, 9000NT, 9000NU, 9000NX, 9000NZ 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 per week (man-hours / 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

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acknowledge this order within five days of receipt.

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

$$\text{Fee Reduction} = \text{Fee} \left( \frac{\text{Required LOE} - \text{Expended LOE}}{\text{ReqQuired L}} \right)$$

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 4,250,000 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 9,615 man-hours specified in paragraph (d) above represents the **anticipated** average expenditure of hours per week.



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(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:

(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.

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(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 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.

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(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.

## **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

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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.

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

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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.

(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

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terms shall be void.

(k) Continued Funds A Necessary Condition

The PCO must make a determination that sufficient funds are available before an award term that has been earned and retained may 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

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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 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.

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## **AWARD TERM PLAN**

### **1.0 INTRODUCTION**

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



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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 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 evaluation 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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**ANNEX 1**

**AWARD TERM ORGANIZATION**

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

<b>Area of Evaluation Performance Monitor(s)</b>	
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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## ANNEX 2

### 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.

Evaluation Period	From	To	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:

**Unsatisfactory Performance:** 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

**Marginal Performance:** 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

**Satisfactory Performance:** 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

**ANNEX 3**

**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**

<b>UNSATISFACTORY</b>	<b>SATISFACTORY</b>	<b>EXCELLENT</b>
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.

**COST PERFORMANCE:**

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

**MANAGEMENT AND BUSINESS PROCESS**

<b>UNSATISFACTORY</b>	<b>SATISFACTORY</b>	<b>EXCELLENT</b>
Contractor fails to identify problems in a timely manner. Solutions, when and if implemented, have a negative impact on cost and schedule.	Problems are identified by the contractor in a timely manner. Contractor provides sufficient information on alternate solutions. Solutions are implemented with limited adverse impact to estimated cost and schedule.	Contractor practices proactive management to identify and anticipate problems prior to adverse impact. Contractor 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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## ANNEX 4

### 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.

**Subcontractor Payments:** 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

**Small Business Subcontractor Utilization:** 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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**ANNEX 5**

**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.

<b>SCHEDULE</b>	<b>EVENT</b>
14 days prior to EOP	Recorder notifies each ATRB member and performance monitor.
30 days after EOP	Performance Monitors submit evaluation reports to ATRB.  ATRBR forwards a copy to Contractor.
30 days after EOP	Contractor submits self-assessment to CO. Copy will be forwarded to ATRB.
60 days after EOP	ATRBR briefs evaluation report and recommendation to the TDO.  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 [Subpart 2.1](#), 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-a-percentage-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

Added Via Mod 19:

Added Via Mod 29:

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## **SECTION J LIST OF ATTACHMENTS**

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